



**Scope of Work and Specifications**

**for**

**CRSF Building Demolition**

**OAK RIDGE NATIONAL LABORATORY**

**OAK RIDGE, TENNESSEE**

**March 2021**

## CRSF Building Demolition

Prepared by  
UT-Battelle  
for  
OAK RIDGE NATIONAL LABORATORY  
Oak Ridge, Tennessee 37831

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Approved, Aaron Hicks  
Excess Facilities Project Manager

Date

Prepared for the U.S. Department of Energy  
under U. S. Government Contract DE-AC05-00OR22725

## Key Personnel & Contact Information

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**In Case of Emergency or Accident, First Contact: Laboratory Shift Superintendent (LSS)  
From ORNL Landline: 911 From Cell Phone: 576-4577**

**Note: These role assignments are subject to change. Updates will be provided if changes occur.**

## **Fixed Price Subcontractor Scope of Work for the CRSF Building Demolition**

### **1. INFORMATION OF PROJECT**

Oak Ridge National Laboratory (the Company) intends to construct new buildings on the site currently occupied by Buildings 7033, 7035, 7035A, 7035B, 7035C, 7035E, 7035F, 7062, 7070, 7082, and 7105 . To prepare the site for new construction, the existing facilities, associated foundations/slabs, fencing, aboveground utility poles, and additional other slabs around the site need to be removed via a fixed price subcontract. This scope of work requires the Seller to provide the equipment, Personal Protective Equipment (PPE), and labor for the abatement, demolition, segregation, transportation, and disposition of all items and materials associated with this demolition effort, as well as backfill to grade and specified soil compaction. The work shall be conducted in accordance with Attachment 1 (Division 1 and Technical Specifications) and Attachment 2 (Drawing Package). Attachment 2 contains demolition drawings, site maps, photos, and sketches, identifying the locations, structures, and materials/equipment to be dispositioned as well as nearby overhead and underground utilities.

The Company has performed asbestos, lead, beryllium, and radiological evaluations, characterization, and surveillance activities on these facilities, remaining facility components, and other identified items/materials included in the scope. The characterization results are included in Attachment 3 (Facility Characterization Information) of the Specification Package.

The Seller is responsible for: installing and maintaining appropriate boundary controls, installing and maintaining site erosion controls, abatement and equipment/material removal activities, demolition (including size reduction, where applicable), and disposal of all construction debris and special (i.e., non-friable Asbestos Containing Material (ACM)) landfill waste. The Seller is responsible for labeling asbestos waste bags. The Seller shall provide containers, package, and transport for all materials destined for the landfill and spoils areas. The Company shall provide, and coordinate pickup of, containers for Hazardous, Universal, and Recyclable (metal, electronics, and furniture) wastes. The Seller is responsible for segregating materials and loading these containers appropriately for Company dispositioning per guidance from the Company Waste Services Representative. Designated equipment will be identified by the Company.

In addition to the demolition of the facilities, the Seller shall also remove and disposition any slabs, foundations, and/or subsurface anchoring materials associated with these structures. Associated concrete piers shall be removed from the ground and the Seller shall backfill to grade with suitably compacted fill (approved by the Company Environmental Compliance Representative). All fill compaction shall be in compliance with the specifications included in the drawings. All clean (non-contaminated) concrete shall be "rubbilized" and dispositioned to the Y-12 Sanitary Landfill. The ORNL Copper Ridge Spoils area is also available for the materials that meet the requirements for spoils disposal on this project (Requirements for use of this area are provided in Section 01 50 00 – Temporary Facilities and Site Controls). Once demolition and disposition efforts have been completed, the Seller shall perform site restoration efforts in accordance with the specifications.

Where site restoration is referenced from the removal of slabs/foundations, Seller shall apply a minimum 2-3 inches of compacted graded aggregate base/crusher-run at completion of activities to meet "final stabilization" requirements of the TN Construction Storm Water General Permit. This may be compacted

by driving equipment over top of the aggregate base/crusher-run material. These areas will be inspected/approved by the Company prior to demobilization..

The Seller shall ensure all appropriate PPE (such as hardhats, safety glasses, hearing protection, respiratory protection, appropriate gloves, and any additional items needed to safely complete the task per the specifications) are worn as required. The Seller shall provide adequate lighting (if needed).

Seller shall provide boundary control by using either Chain Link Fencing (Alternate 1a) or Orange Snow Fencing (Alternate 1b) which shall be installed around the site prior to start of demolition and shall remain in place throughout the duration of the demolition activities. Demolition contractor shall be responsible for removing the fencing at the end of demolition efforts. The Seller shall provide quotes for the materials, installation, and removal of both types of fencing (Alternates 1a & 1b). The Company will select which of these Cngtpcvgu shall be used. If Cngtpcvg 1c is selected, Seller shall also provide a quote for the continued leasing of the chain link fence (monthly rate) and the removal of the fence.

## 1.1 SCOPE DEFINITION

### 1. Seller (Demolition) scope includes:

- Provide labor, equipment, materials, and PPE to safely execute this task.
- Installation of perimeter fence (Option 1 or 2) and site erosion controls
- Removal of all items and materials associated with these buildings and additional items located around the site as identified by the Company
- Abatement, demolition, segregation, transportation, and disposition of existing buildings, slabs, and above ground assets
- Demolition of identified utility poles and existing fencing (including the post foundations)
- Demolition of identified slabs around the CRSF site (these slabs are estimated to be approximately 6-8 inches thick)
- Demolition of identified sheds and trailer Backfill and fill compaction where slabs/foundations and utilities were located (backfill shall be in compliance with the specifications shown on the demolition drawings)
- Site Restoration efforts as described in the SOW/Demolition Package
- Removal of the demolition fencing, unless there is an agreement between the Seller and the Company to continue the lease.

### 2. Company

- Isolate and air gap all known utilities serving this area
- Process excavation permit
- Obtain Notification of Demolition and/or Asbestos Renovation (NODR) permit
- Provide Characterization information is provided in Attachment 3
- Provide Radiological Control Technician (RCT) support to perform radiological surveys of incoming and outgoing equipment, the underside of the slabs, asphalted areas and other previously inaccessible areas.

## 1.2 SEQUENCING

The following is a high level sequencing of Seller activities for the project:

1. Erect perimeter fencing around the job site
2. Setup site erosion controls
3. Cleanout of remaining items within and around buildings
4. Demolish building, slabs, and above ground assets
5. Demolish other identified items (slabs, sheds, trailer, fences, and utility poles)
6. Backfill and compact soil as required
7. Place crusher run atop the compacted soil areas for erosion control
8. Demobilize

## 2. GENERAL REQUIREMENTS

1. Seller shall include all required mobilizations and demobilizations to complete the project.
2. Work shall include Key Personnel as specified in the Solicitation.
3. Work shall include one full time dedicated Site Safety and Health Professional (SSHP) at all times during work hours.
4. Work shall include one full time dedicated Site Superintendent (SS) at all times during work hours.
5. Seller shall provide PPE for all Seller staff. Seller shall ensure their subcontractors wear appropriate PPE while on demolition site. This PPE typically includes but is not limited to safety eyeglasses, hard hats, vests, steel toe boots, “COVID-19” masks, gloves and other safety devices to conduct all activities and walkthroughs. Seller shall communicate requirements and associated trainings for site visitors or Company personnel prior to accessing the site.
6. Seller shall conduct toolbox talks and on-site Plan of the Day meetings every day for the relevant activities on site and maintain a log with sign in sheets. These shall be coordinated with the Company CFR(s).
7. Seller shall maintain a visitor’s log at the entrance of the site and ensure that all staff and visitors sign in and sign out every day prior to entering and exiting any work areas.
8. Seller shall submit a site layout plan for approval, illustrating site office, storage, portable toilets, parking, one location for tie-ins for temporary services prior to mobilization. Once approved by the Company, the Seller shall implement the approved site layout plan prior to commencing with demolition works.
9. Seller shall implement the approved site layout plan prior to commencing any works.
10. Seller shall provide adequate signage around work area and traffic flagmen as necessary. Any traffic barricades and diversion signages to block off both ends of White Oak Avenue during demolition shall be in accordance with Section 01 01 00 General Work Requirements (see Attachment 1) and coordinated with the CFR in advance. If traffic detours are needed, diversion signage shall be maintained on the alternate route throughout the construction duration. All signage shall be per Company’s requirements, as outlined in the General Work Requirements.
11. Seller shall submit a request for radiological surveys of incoming site offices, tools, equipment, safety equipment prior to commencing any works or occupying any areas.
12. Seller shall provide equipment that has been inspected and certified for use. Only qualified personnel shall be allowed to use the equipment and no training shall be provided on site for use of the equipment. These trainings shall be recorded in the Seller training matrix.

13. Seller shall provide temporary services (water, phone, internet, toilet, etc.) as needed.
14. The Seller shall prepare (and submit for approval) the following work control documents prior to the issuance of the Notice to Proceed. Submittals to be issued are as follows, but not limited to:
  - Demolition Work Plan
  - Asbestos Work Plan
  - Site Specific Safety Plan
  - Activity Hazard Analyses
  - Structural Assessment performed by licensed PE
  - Waste Management Plan (may be included in the Demolition Work Plan)
  - Notification of Asbestos Demolition or Renovation (NODR)
  - Asbestos Work Authorization (AWA)
  - Tennessee Department of Environment & Conservation (TDEC) Asbestos FIRM Accreditation Certificate (for prime and for any sub-tier firms)
  - Current TDEC Asbestos Accreditation cards (front and back) for each worker performing asbestos related work
  - Current TN EPSC – Level 1 certified inspector cards for personnel to perform erosion & sediment control inspections
  - Asbestos training certificates for each worker performing asbestos related work
  - Medical surveillance information for each worker performing asbestos related work.
  - Respiratory protection submittals for each worker (Note: Worker is deemed as anyone who is trained as an Asbestos Worker, Supervisor, Project Designer, and/or Project Monitor):
    - Respiratory protection medical qualification
    - User training
    - Fit testing certification(s)
15. Obtain specified training (ORNL Site Access Training, Asbestos training in the training disciplines of Worker, Supervisor, Project Designer, and Project Monitor – including associated TDEC Asbestos Accreditation). Training required by 29 CFR 1926.62 Lead.
16. Complete Training Matrix and issue to Company (TPO) for review and approval. (Must be approved by TPO prior to mobilization.) As needed, updates shall be made to the training matrix.
17. Seller shall maintain a complete set of contract documents on site for review at all times;
18. Seller shall submit a completed Subcontractor Silica Sampling Report Form (see Attachment 1, Section 01 11 00) for form and associated instructions) at project closeout.
19. Seller shall fully comply with the SWPPP requirements (SWPPP is included in the Demolition Specification Package as Attachment 2 under the Environmental Protection Specification). Seller shall sign the signature page of the SWPPP and submit to the Company. The Company will then sign and return the fully executed page for inclusion in the Seller's copy of the SWPPP.
20. Seller shall send a designee to any requested Company status meeting. Seller shall also bring any required items (i.e. current schedules, training matrixes, etc.) needed to provide project updates.

### **3. DEMOLITION SPECIFIC REQUIREMENTS**

1. The Seller shall review and evaluate the Company-provided characterization information (Attachment 3) and provide a written sufficiency statement stating the characterization is

complete and sufficient. This sufficiency statement is to be issued to the Company with the other submittals (Demolition Work Plan, Health and Safety Plan, Activity Hazard Analyses, Structural Assessment, etc.). The slabs, as well as any other concrete footers or foundations in this demolition task, have no known contamination (Asbestos, lead, or beryllium); however, radiological surveys will be conducted on the underside of the slabs during removal. If rad contamination is discovered, the Seller shall stop work and follow instructions from the Company.

2. Obtain needed Company-provided demolition, disposition, and asbestos work permits (AWA, Excavation Permit, NODR, etc.) and verification that Company required notifications are in place.
3. Seller shall ensure appropriate boundary controls are established, signage posted, and boundaries maintained through the duration of abatement, demolition, and disposition work. Appropriate signage shall be placed at each location for entry and along fence in visible locations.
4. Ensure proper erosion controls are in place and that other SWPPP requirements are being followed.
5. As warranted, perform any required abatement activities. These abatement activities shall be performed in accordance to the requirements in the scope, specifications, and approved work plans.
6. Remove Universal and Hazardous wastes, electronics, and other items not destined for the landfill. These items shall be packaged and dispositioned according to the Statement of Work and specifications.
7. Facility and facility components are non-contaminated unless otherwise noted in Attachment 1 'Unusual Conditions' of the General Work Requirements Specification and shall be disposed of as general construction debris to the Y-12 Sanitary Landfill by the Seller or as scrap metal for metal recycling. The facility and components are approved for disposal at the Y-12 Sanitary Landfill based upon sampling and analysis. The Seller shall be responsible for proper segregation, size reduction (if applicable), packaging, transport and disposal of these waste materials. If the facility or facility components are noted as contaminated, the Seller shall package and disposition the facility or facility component(s) in accordance with the specifications from this bid package.
8. If applicable, the Seller-owned non-sanitary wastes resulting from Demolition and Disposition (D&D) activities (i.e. disposable PPE) are handled, packaged, appropriately labeled by qualified Seller personnel in Company provided containers for disposal by the Company. This will be coordinated by the Company Waste Service Representative.
9. Perform demolition of existing buildings, slabs/foundations, utility poles, fencing, trailer, and sheds. on the proposed site based on the site, utility, and floor plans provided by the Company and as described in the specifications and approved work plans.
10. Disposition demolition debris, building contents, remaining site contents, slab debris, and other waste in accordance with the specifications and approved work plans. This waste shall be segregated and if necessary, packaged as required in the specifications.
  - a. Refer to the Unusual Conditions of the General Work Requirements section (01 01 00) for facility-specific required abatements to be performed prior to demolition efforts.
11. During slab demolitions, the Company will provide RCT support to perform radiological surveys of the underside of the slabs and other previously inaccessible surfaces. If radiologically contaminated materials are encountered, the Seller shall stop work and await additional



instructions from the Company. The Company Waste Service Representative will coordinate disposition strategy to the Seller.

12. Once the slab, any associated foundations to the slabs, fence posts, and utility poles are removed, the Seller shall backfill these spaces with suitably compacted fill to grade (See ‘Unusual Conditions’ section in the General Work Requirements – 01 01 00). Backfill shall meet the requirements as noted on the demolition drawings.
13. All approved concrete slab/foundation debris shall be size reduced (per the Y-12 landfill requirements referenced in Section 017419) and disposed of by the Seller to the Y-12 Landfill or the Copper Ridge Spoils Area, unless radiological contamination is discovered during surveys by the Company RCTs of the underside of the slabs. If radiological contamination is discovered, the Seller shall stop work and await further instruction from the TPO. Any spoils debris that is destined for the Copper Ridge Spoils area must comply with the requirements, be surveyed by RCTs, and get approval from the Company Environmental Compliance Representative (Any painted surfaces or rad contaminated portions are prohibited from Copper Ridge).
14. Silica exposure controls and monitoring are applicable and shall be followed by Seller when performing this work. These controls are detailed in the General Work Requirements.
15. The Seller shall be responsible for proper segregation, packaging, transport, and disposal of waste materials. The Company will provide the associated 2109 documentation.
16. Site Restoration: Upon completion of the demolition scope and backfilling efforts to match the rough finished grade(per the Demolition drawings), the site shall be cleaned of all demolition debris and Seller generated waste. Seller shall place crusher run atop the backfilled/compacted soil for erosion control. The Seller shall ensure erosion control measures are in place as required by the SWPPP.
17. The Seller shall track the volume of waste materials generated and the volume diverted from landfill disposal (i.e., recycle and disposal at spoils areas) by waste type. The Seller shall formally transmit a final summary report to The Company (by task) detailing the volume of waste materials generated and their respective disposal streams and diversion rates. The final waste summary report is to be submitted no later than 2 weeks after the completion of field work. In the case of projects spanning multiple fiscal years, a summary report shall be provided by fiscal year, no later than 2 weeks after the end of the fiscal year.

## 4. ATTACHMENTS

Attachment 1: Technical Specifications

Attachment 2: Demolition Drawings and Photos

Attachment 3: Facility-specific Characterization Information

- o Asbestos
- o Beryllium
- o Lead
- o Radiological

**ATTACHMENT 1**  
**CRSF BUILDING DEMOLITION**  
**TECHNICAL SPECIFICATIONS**  
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## SECTION 01 01 00

### GENERAL WORK REQUIREMENTS

#### PART 1 - GENERAL

##### 1.1 SUMMARY OF WORK

- A. Work is located at the Oak Ridge National Laboratory (ORNL), a government owned facility, managed by UT-Battelle, LCC, (the Company), for the Department of Energy (DOE), in Oak Ridge, TN. Specifically, this work is located in the 7000 Area of ORNL (east of the main campus).”
- B. Provide all labor, supplies, materials, and equipment (unless otherwise noted in the specifications) to perform:
  1. Mobilization and site set-up;
  2. Execution of the CRSF Building Demolition Task as described in the SOW and in the Unusual Conditions Section below;
  3. Isolate utilities prior to demolition, (if required);
  4. Contact with asbestos containing materials such as transite wallboard, window glazing and window caulking on the windows and door, black tar and pink wall fillers, and roof flashing type material on side of a foundation slab for this work scope. In addition, black tar material is located on roof screws with trace results for asbestos thus this shall be handled as an OSHA “Unclassified Work Operation” and per the work operation method, this waste is allowed to be disposed of as construction debris. Any electrical wire that is not specifically addressed (cloth, cloth braided, rubber-like braided, or that has white insulation inside) is suspect for asbestos and should be treated as asbestos-containing materials unless bulk sampling is performed.
  5. Abatement of universal wastes and other hazardous wastes prohibited from disposal at the Y-12 Landfill;
  6. Prepare, package, load, and dispose of all waste per technical specifications, including, but not limited to:
    - a. Waste items identified for disposal at Y-12 Landfill (as required);
    - b. Disposal of concrete to Copper Ridge per requirements in Section 01 50 00 - Temporary Facilities and Site Controls
    - c. Waste items segregated as scrap metal for metal recycling (as warranted);
    - d. Waste items identified as non-friable asbestos for disposal at Y-12 Landfill (as required);
    - e. Waste items identified as electronics or electronics components;
  7. Site Restoration activities after cleanout/demolition.

8. Demobilization

- C. Work shall be completed in strict accordance with the subcontract documents.

## 1.2 COMPANY INTERFACE

- A. Prior to Notice to Proceed (NTP), the Seller shall interface with Procurement, the Project Manager, or the Technical Project Officer (TPO). After the NTP has been issued, the Seller shall use the Excess Facility Coordinators, or the TPO, as their primary method of communicating with the Company. The Seller shall communicate issues affecting the contract with a Request for Information (RFI). An RFI form is posted on the Procurement website.
- B. All on-site work activities shall be coordinated at least 1 day in advance unless otherwise noted. Seller shall provide Construction Field Representative (CFR), Excess Facility Coordinators, or TPO a daily work plan that briefly identifies activities planned for the following day. Seller shall participate in daily “Plan of the day” meetings to ensure workers are aware of the upcoming work and associated hazards. Additional coordination meetings may also be requested by the TPO. Seller shall communicate all changes in planned activities to the Company TPO prior to implementation.
- C. The Company will provide Radiological Control Technicians (RCT) to support Seller activities.

## 1.3 SECURITY

- A. Badge requirements.
1. Workers must be badged to enter ORNL. Access points are located on Bethel Valley Road. Submit the badge request form, located on the Procurement website at least seven calendar days, but not more than 14 calendar days, in advance of scheduled plant entrance. Proof of the following current training is a prerequisite for obtaining a badge or for performing work at ORNL:
    - a. The ORNL Site Access Training (SAT) must have been completed within the past two years and must remain current throughout the duration of the task. SAT shall be retaken as needed.
    - b. The ORNL Environmental Management System Awareness Training for Construction and Service Contractors (see Specification 015500 “Environmental Protection”).
  2. Request badges only for employees assigned or scheduled to work at the site(s).
  3. Submit badge requests to the TPO at least 7 business days in advance of scheduled arrival.
    - a. Additional information is required during the COVID-19 pandemic. This information can take longer than normal to process, so, if possible, request for on-site access a week in advance to ensure no delays. This additional information consists of:

- A request for each person coming on site,
  - Approval from a Level 1 ORNL Manager for site access,
  - Completion of a Return to Campus (RTC) screening questionnaire,
  - Evaluation of RTC questionnaire by ORNL Medical personnel, as warranted based upon the RTC questionnaire responses. (This may include follow-up questions from ORNL Medical)
  - And (as applicable) updating existing badging information with RTC questionnaire responses.
4. Return all badges (and dosimeters, if provided) upon completion of work. **Final payment will not be processed until badges and dosimeters (if issued) are returned.**
- B. Vehicle requirements.
1. Personal vehicles may only be parked in spaces designated for open employee parking. Parking violations may result in termination of employee access to ORNL.
  2. Parking and work site access for vehicles used to conduct the subcontract work shall be coordinated with the TPO.
  3. Parking along roads is prohibited.
  4. Obey ALL traffic postings (speed limits, stop signs, traffic lights, and other applicable postings). Failure to do so may result in termination of employee access to ORNL.
  5. Seller fuel truck may be used to re-fuel equipment at the project site but may not remain in the area when not re-fueling.
  6. As applicable, access around the perimeter of the structures for Laboratory Shift Superintendent, Fire Protections, and Security shall be maintained. At the end of work or during work breaks, all equipment shall be positioned in a manner to allow the passage of emergency service vehicles. Keys shall be removed from vehicles and vehicles locked when not in use.

#### 1.4 SUBMITTAL REQUIREMENTS

- A. Coordinate submittal information through the Company's TPO, and Procurement representative.
  1. Key Submittals shall include but are not limited to: the Demolition Work Plan, Asbestos Work Plan, Activity Hazard Analysis, Site Specific Safety and Health Plan, and Training Matrix (can be attached to the above documents).
- B. Provide the submittal information as stated in the subcontract documents.
- C. Identify submittal information with contract number, project title, the Seller's name, and date submitted.
- D. Submittals shall be in electronic format, where possible.

- E. Items submitted for review will be returned with one of the following comments:
  - 1. Reviewed without Comment
  - 2. Reviewed with Comment, Revise and Resubmit
  - 3. Reviewed with Comment, Resubmittal not Required
  - 4. Rejected, Revise and Resubmit
  - 5. Review Not Required

## **1.5 SPECIFICATION AND DRAWINGS**

- A. Specification.
  - 1. The specification is written in a streamlined form and directed to the Seller, unless specifically noted otherwise.
  - 2. The term "provide" means to furnish and install, complete and ready for intended use.
- B. Drawings/Photos.
  - 1. Work shall conform to the drawings and/or photos.
  - 2. Reference drawings are furnished for information only. Measurements may not be exact. Seller shall conduct own measurements for verification.

## **1.6 WORKING AND STORAGE AREAS**

- A. Provide construction fencing/barriers and maintain in good working order to limit access into work area. Ensure that project work remains within the project boundaries delineated on the project drawings. Coordinate all potential interface activities with the Company TPO. Refer to 01500 Temporary Facilities and Site Control for additional information regarding construction fencing.
- B. Limit activities and storage to the immediate project site and designated storage areas. Limit travel to the main roads, as feasible.
- C. Store only work-related material and equipment in stockpile areas, storage trailers, and designated storage sites located on site.
- D. Perform cleanup, trash disposal, and neatly arrange material and equipment, which includes waste storage containers, on a daily basis.
- E. The Company has a smoking policy that limits all smoking (including e-cigarettes) to certain designated Company areas. For work in existing Company facilities, the Seller shall only allow its employees, and employees of its lower tier providers, to smoke in the Company designated smoking areas. For work on other Company construction sites (e.g., outdoor work and/or new facilities) the Seller may request that a site-specific, outdoor smoking area be designated for the Seller's work; such designated area must be 25' away from any building entrance or building air intake. The Seller shall also be responsible for cigarette butt collection on and around the job site. No smoking is allowed indoors.

## **1.7 PROJECT WORK AND PAYMENT SCHEDULE**

- A. The Seller shall be substantially complete with work on date noted in the contract documents. All work shall be complete 30 days after substantial completion is achieved, unless otherwise noted by the Company.
- B. Within 5 calendar days of award, the subcontractor shall submit a baseline project schedule with activities and related costs that match the schedule of values.
- C. An updated schedule shall be provided to the TPO each week to show progress.
- D. Submit for approval, within 5 calendar days after the award of contract, a schedule of values (payment schedule) allocated to various portions of the work. The schedule of values shall be in enough detail to verify applications for payment and be traceable to the activities and progress on the schedule. Activities with substantial material values shall be listed separately.

### 1.8 PROJECT COORDINATION

- A. Normal demolition working hours are 7:00 a.m. to 5:00 p.m., Monday through Thursday. Provide sufficient personnel to complete the project within the specified time. Notify the Company (TPO, Excess Facility Coordinator, or CFR) at least 48 hours in advance if performing work at times other than the normal working hours.
- B. The Company holidays are New Year's Day, Martin Luther King's Birthday, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving, and the day after, and Christmas (two days). Request 72 hours in advance to access the plant on holidays observed by the Company. The Company retains the right to reject requests to work on holidays.
- C. A pre-construction meeting will be held by Company before starting field work. The Seller's superintendent and key personnel shall attend. The date and time will be mutually agreed upon by the Company and the Seller.
- D. A progress and coordination meeting will be held weekly. This meeting will be chaired by the Company's TPO, or delegate. At a minimum, the Seller's superintendent or qualified delegate, shall attend this meeting and have authority to resolve field problems and make changes in cost and schedule. The project schedule shall be updated prior to the meeting and used as a basis for the discussion.
- E. All work shall be coordinated with the Company, to allow integration with the balance of ORNL's activities, to ensure the mutual safety of all work activities.
- F. For all work in or around existing Company facilities or infrastructure, protect the existing Company facilities and infrastructure from damage, and protect all personnel from injury resulting from the Seller's activities.
- G. For all work, protect the other structure/facilities/components from damage that are not included in the scope. Also protect all other persons from injury resulting from the Seller's activities.
- H. Submit requests for Asbestos Work Authorization (AWA) and utility outages a minimum of 2 calendar days in advance of need.
- I. As applicable, the Company will provide project specific permits such as excavation permit and Notification of Demolition and/or Asbestos Renovation (NODR) in advance of need. (After award, Seller shall work with Asbestos Program Manager to

ready the NODR documentation for submission- Demolition work cannot proceed without NODR “approval”).

- J. Request use of hydrant and installation of backflow preventer (if required) at pre-construction meeting. As needed, the Company will provide, and install, the backflow preventer, while the Seller shall provide all additional materials necessary. Company will make connection to live utility systems. Company will inspect backflow preventer prior to use.

## 1.9 UNUSUAL CONDITIONS

- A. **Company interface regarding radiological contamination.** Structures and/or components are not expected to be radiologically contaminated or contain any radiological contamination, based on surveys performed by the Company (See Attachment 3, “Facility-Specific Characterization Information). Rad Worker training is not required for this scope. Radiological Protection support will be provided by the Company to assist the Seller with radiological monitoring during on-site activities. **Materials, structures, and components over 7 feet in elevation will be screened and evaluated by Company RCTs prior to removal and disposition.** If radiological contamination is encountered, the Seller shall suspend work in that area as directed by the Company Radiological Protection personnel in concert with the Technical Project Officer (TPO). The Company will provide further direction if radiological contamination is encountered.
- B. **Potential hazards.** Typical demolition dangers, especially overhead work, are likely the most common hazards. Caution should be used to mitigate these hazards as much as possible. Characterization results are provided in Attachment 3 (Facility- Specific Characterization Information). The project-specific Health and Safety Plan (H&S Plan) and Hazard Analyses (HA) shall address these hazards.
- C. **Asbestos Abatement Requirements.** Asbestos-containing materials are present in some of the facilities in materials such as window glazing and window caulking on the windows and door, transite wallboard on walls, black tar and pink wall fillers, and roof flashing type material on the side of a foundation slab. In addition, black tar material is located on roof screws with trace results for asbestos which should be handled as an OSHA “Unclassified Work Operation” activity consisting of, at a minimum, wet methods and HEPA vac, prompt cleanup and an exposure assessment for removal and disposal. Per the work operation method, this particular black tar on screws waste may be dispose of as construction debris. Any electrical wire that is not specifically addressed (cloth, cloth braided, rubber-like braided, or that has white insulation inside) is suspect for asbestos and should be treated as asbestos-containing materials unless bulk sampling is performed.

Characterization performed by the Company is provided in SOW Attachment 3, “Facility-Specific Characterization Information”. Seller shall suspend work and notify the Company if other suspect asbestos materials are encountered during removal work operations; the Company will provide sampling and further direction. Any suspect asbestos containing materials will be assumed to be ACM and will be handled/disposed of accordingly unless sampled by an accredited laboratory to prove otherwise. Asbestos waste disposal requirements are provided in Specification 017419. The Seller shall:



- a. Submit copies of training certificate completion records and TDEC Asbestos Accreditation FIRM certificate for the Seller and card copies (front and back) for Seller's employees and acquired workers in the training disciplines of Asbestos Supervisor, Asbestos Building Inspector, Asbestos Project Designer, Asbestos Project Monitor, and Asbestos Workers at least 7 days prior to start of asbestos work.
- b. If applicable, submit a brief description 30 calendar days in advance of designated start date with sufficient information necessary for Company to prepare and submit the Tennessee Department of Environment & Conservation (TDEC) Notification of Demolition and/or Renovation (NODR) in compliance with the 10-working day notification requirement. Information required includes asbestos-containing material (ACM) removal contractor, quantities, intent to demolish, demolition methods and equipment, prevention of air emissions, and waste transport contractor.
- c. Submit an Asbestos Work Plan prepared and signed by a TN Asbestos Accredited Project Designer at least 2 days prior to start of asbestos work. Submit any Initial and Negative Exposure Assessments (NEA) as required.
- d. Asbestos Competent Supervisor is required to be onsite during demolition when asbestos-containing materials are present. Remove asbestos material requiring removal prior to demolition using state-of-the-art work practices and engineering controls as required in 29 CFR 1926.1101, Appendix A, C, D, E (Mandatory), Appendix F (Non-Mandatory), and in accordance with TDEC Rule 1200-01-20. Personal protective equipment (PPE) including respiratory protection will be identified in the Asbestos Work Plan submittal.
  1. Prior to the removal of critical barriers, clearance sampling is required. Clearance levels shall be 0.01 fibers per cubic centimeter (f/cc) or less, or the background level if this is greater than 0.01 f/cc but less than 0.1 f/cc. Sample results shall be shared with Company representative.
- e. Perform work in compliance with 40 CFR Part 61 and 40 CFR Part 763.
- f. The Company will issue the Asbestos Work Authorization (AWA) with Seller's Asbestos Competent Supervisor. Seller shall notify Company TPO of the need for an AWA a minimum of 2 days prior to the designated start date as noted on the NODR.
- g. Asbestos waste disposal requirements are provided in Specification 017419. The Seller shall submit copies of all waste shipment documents to Asbestos Program Manager. The Company will issue the AWSR (Asbestos Waste Shipment Record) form for friable asbestos shipments.

**D. Lead Compliance Requirements.**

- a. The Seller shall conduct all work in compliance with applicable requirements of the OSHA Lead construction standard, 29 CFR 1926.62 and training required by 1926.62.

- b. Seller's Lead Program shall be implemented and performed under the oversight/direction of a Seller-provided Certified Industrial Hygienist (CIH).
  - c. As needed, the Seller shall provide Lead Program, training, and medical surveillance appropriate for project activities for Seller employees.
  - d. Seller shall provide change areas, hand hygiene facilities, and personal protective equipment, as needed.
  - e. Seller shall conduct exposure monitoring and environmental (area air) monitoring of work area boundary during activities with potential for exposure to lead. Seller shall submit monitoring results to the Company for information within 3 days of receipt of results; notify Company immediately upon receipt of results that equal or exceed the OSHA permissible exposure limit (PEL) for lead or releases beyond the work area boundary have occurred.
  - f. Seller shall post lead work areas when airborne concentrations exceed the PEL.
  - g. Seller shall implement interim protective measures for all tasks until exposure monitoring provides evidence that workers are not exposed above the PEL for lead. (in lieu of sufficient recent exposure monitoring data for projects/conditions similar to this one that demonstrate low exposure -- in other words an NEA) specify minimum PPE, exposure monitoring, training, medical surveillance, initial blood lead and ZPP samples.)
  - h. The Seller shall refer to variance needed for rinse water disposal. Follow requirements in Section 015500.
  - i. The Company maintains a Satellite Accumulation Area for lead PPE waste material in an area to be determined by the Company. All lead-contaminated PPE shall be turned over to the Company for Company disposition.
- E. **HP survey requirements.** All onsite demolition activities will be supported by Company Radiological Protection personnel. Any Seller equipment brought on site (i.e. rental equipment such as a track hoe or manlift) will require a receipt survey by Company Radiological Control Technician (RCT) prior to use and a release survey prior to removal from the site. Seller shall provide the Company 24-hour notice in advance of the survey requirement; the Company will direct the Seller as to the location of the survey area. Items being surveyed are in a "hold point" until the survey results are returned. Additionally, items/material or surfaces over 7 feet in elevation will be surveyed by Company RCTs prior to removal and disposition.
- F. **Work Planning.** Seller shall submit a Demolition Work Plan for approval by the Company addressing work methods to be used to safely handle, collect, segregate, and disposition the identified materials.
- G. **Waste materials.** See Division 1 Specification 017419 for details on Waste Management activities. Because of the number of potential waste streams requiring

segregation for disposal, the Company will provide a field Waste Services Representative (WSR) to support the Seller's waste segregation activities as needed. When wastes are specified to be loaded into Company-provided containers, the Company will stage the containers proximate to the project site for loading by the Seller. For all other waste streams, the Seller shall be responsible for segregating, loading, and dispositioning the waste according to the specifications. The following briefly summarizes task-specific direction:

- a. Seller shall be responsible for the collection and offsite disposal of all Seller's sanitary waste materials, including non-friable asbestos waste. Point of clarification: Sanitary wastes (i.e., food and garbage) can be disposed on site in designated receptacles; excess debris items and materials brought onsite should not go to the Y-12 Landfill, but rather taken off site with Seller and dispositioned accordingly.
- b. Scrap metal shall be collected and loaded in Company-provided scrap metal containers, after survey and green-tagged by Company Radiological Protection personnel. Scrap metal must not contain asbestos materials. Scrap metal must not contain Prohibited Items as defined in the Division I Spec package 017419.
- c. As applicable, electronics shall be segregated, collected, palletized, stretch-wrapped and packaged for disposition to ORNL Excess Property Sales. Seller shall transport these items to ORNL Property Sales in coordination with the CFR.
- d. Company will provide waste containers for Universal and Hazardous Wastes; including the labeling, management, and disposition of these waste streams. The Seller shall load these containers appropriately and turn these containers over to the Company when loading is completed. In addition, the Company will coordinate delivery of Metal Recycle pans through the existing UT-B contract. Likewise, the Company also recycles the following: cardboard, glass, plastics, and has a special container for air filters. The Seller shall coordinate with the Company Waste Service Representative for disposal/recycling of these items. The Seller shall provide containers and transport of all landfill wastes.
- e. Construction/demolition waste materials meeting the requirements of the Y-12 Landfill shall be disposed by the Seller at the Y-12 Landfill after survey and green-tagged by Company Radiological Protection personnel.
- f. The Seller is responsible for size reduction and efficient packaging in order to minimize void space in the waste containers for disposal and to meet the size criteria outlined in the Y-12 Landfill Master Waste Profiles (Attachments to the 017419 Division I Specification) for landfill-eligible wastes to be disposed by the Seller.
- g. Radiological Protection may survey the previously inaccessible surfaces during demolition, and if radiological contamination is detected, the Company will instruct the Seller to suspend work where the rad was discovered until a path forward is developed.

- h. All landfill-eligible waste shall be delivered to the Y12 Landfill by the Seller with the exception of prohibited items discussed further below and in Specification Section 017419. The Company will prepare any waste profiles for Special Waste Requests for disposal.
- i. The Seller shall have a Certified Industrial Hygienist (CIH) to determine the appropriate level of PPE required for each task to be performed during abatement, remediation, and demolition. The PPE shall be documented in the hazard assessment (HA). HAs shall be reviewed and signed by the Seller CIH, with verification by the Seller that conditions are “as evaluated” at time of task initiation.
- j. Due to lack of fire suppression systems/equipment, the introduction of unattended flammable or combustible materials (e.g., flammable liquids, vehicles and equipment remaining off-shift, combustible materials, etc.) within 50’ of facilities is prohibited unless specifically approved by Company TPO.
- k. Regulated wastes shall be segregated and packaged by the Seller in waste containers provided by the Company, as directed by the Company Waste Services Representative (WSR). If applicable, wastes requiring off-site disposition, such as hazardous, radiological or mixed, will be packaged by the Seller at the direction of the Company, into Company provided containers. This waste will then be managed by the Company for interim staging and ultimate disposition.
- l. As applicable, the Seller shall place any lead contaminated items (wet wipes, any equipment that becomes lead contaminated, and PPE) into marked accumulation area(s) for lead disposal. The Company will provide these container(s) and will disposition the container(s) of used PPE.
- m. Seller shall be responsible for appropriately packaging and labeling Seller’s lead-contaminated PPE and placing it in the Company-established Satellite Accumulation Area (SAA) or 90 Day area for disposition by the Company.
- n. Clean wastes resulting from items the Seller has brought onsite (e.g. packaging) shall be dispositioned offsite by the Seller.

#### H. **Electronics/Components Packaging Requirements**

- a. Seller shall package all electronic components on standard-sized wooden pallets (~42”x48”).
- b. Electronic equipment/components shall be wiped down for lead dust prior to removing from the laboratories placing on the pallets.
- c. Maximum gross weight per loaded pallet = 3,000 pounds.
- d. After stacking equipment/components (total height of pallet and materials shall not exceed 4.5 ft, the horizontal dimensions of the load shall not exceed the perimeter of the pallet – unless approved by the TPO), wrap the contents with 3 wraps of stretch wrap around the perimeter to help secure the load from shifting.
- e. Relocate loaded pallets to staging area(s) to be established outside and proximate to the exit(s) from the facilities. Staging shall be on paved areas;

Seller shall ensure staging areas are appropriately flagged for vehicle and pedestrian traffic in the areas. Seller cannot stage pallets in an existing construction area or work zone.

- f. Seller shall ensure the package is appropriately labeled.
- g. Seller shall load, transport, and unload to ORNL Excess Property Sales. Seller shall coordinate movement of these pallets with the CFR.

I. **Fall Protection** – Throughout this task, the Seller may be use scaffolding, ladders or lifts to remove components and materials, or to perform abatement efforts on elevated surfaces. Seller shall use OSHA applicable safety measures and controls for either scaffolding, ladders, or lifts.

J. **Building Specific “Unusual Conditions:”**

- i. Ongoing Company work around the demolition area shall not be interrupted by Seller operations. Coordination of specific activities between the project and other ongoing area operations (i.e. grounds maintenance, material deliveries) may be necessary during demolition and waste staging. If Company actions causing interference with Seller operations are needed, the Company CFR will coordinate with the Seller to minimize interruption in Seller operations. The Seller shall support the Company coordination requirements to minimize impact to ongoing operations.
- ii. The Seller personnel shall wear appropriate PPE at all times.
- iii. The Seller shall follow current Company COVID-19 protocols at all times while working on-site. If conditions change, Seller shall notify the TPO immediately.
- iv. The Seller shall provide adequate signage around work area and traffic flagmen as necessary. Any traffic barricades and diversion signages to block off portions of White Oak Avenue during demolition shall be coordinated with the CFR in advance. Any roadway blockages shall be limited in duration as much as possible. If Traffic Control Plan is needed, refer to the Temporary Facilities and Site Controls section (01 50 00)
- v. The Seller shall appropriately label and restrict access, using fencing and signage at the demolition boundaries and at each access point to the demolition area to prevent unauthorized access into this space (this fencing can be ignored if this area is sufficiently included in the overall fenced in demolition boundaries). Fencing requirements are outlined in 01 50 00 (Temporary Facilities and Site Controls). If needed, any area outside of the demolition boundaries shall also be labeled and fenced off to prevent unauthorized access.
- vi. Painted concrete block and slabs, as well as oil stained slabs, must be dispositioned to the Y-12 landfill.
- vii. The Seller shall verify and confirm utilities associated with the building, facility, or structure to be demolished have been isolated and air-gapped/disconnected. This verification shall be performed prior to proceeding with any demolition activities.

- viii. Prior to backfilling and compaction operations, Seller shall coordinate and obtain appropriate suitable backfill composition from Company Environmental Compliant Representative.
- ix. Any disturbed areas must have a minimum 2" layer of compacted graded aggregate base/crusher-run at completion of activities to meet "final stabilization" requirements of the TN Construction Storm Water General Permit. This may be compacted by driving equipment over top of the aggregate base/crusher-run material.
- x. The Seller is responsible for cleanup of any Seller generated waste while onsite.
- xi. Restroom facilities will not be available. Seller shall provide all needed toilet facilities.

**K. Building 7033, Line Crew Facility – Specific “Unusual Conditions:”**

- a. **Area Operations.** Building 7033 is the Line Crew Facility and it primarily serves as the operational center for equipment, vehicles, and offices for electrical crews. This facility contains offices, a change room, a break room, restrooms, a high bay garage area, as well as storage spaces. Although no rad contamination is expected, any items identified as radiologically contaminated or suspected as possibly radiologically contaminated are excluded from this demolition scope.
  - i. The demolition of Building 7033 shall consist of the following efforts:
    - a. Segregation, packaging (as needed), and disposition of any remaining items, materials, and/or facility components that need to be removed from the facility prior to demolition efforts.
    - b. Demolition of facility and any remaining facility components
    - c. Segregation (as needed) and disposition of facility debris
    - d. Demolition and disposition of associated slabs and foundations.
    - e. Backfilling and compacting impacted area to grade as shown on demolition drawings.
  - ii. Seller shall be responsible for maintaining erosion control and shall perform any required Site Restoration efforts.
- b. **Contamination.** The Company has performed evaluations and/or characterization of the Seller’s work area for radiological, lead, asbestos, and beryllium contamination. Characterization information compiled by the Company is provided in Attachment 3.
  - i. **Radiological.** Radiological surveys have been performed and no radiological contamination has been detected on the facility itself or on the items to be removed from Building 7033. Any item that has radiological contamination postings or are suspected to have radiological contamination are excluded from this scope. No controls or PPE are expected to be needed for radiological contamination.
  - ii. **Lead.** Surface contamination lead surveys and evaluations have been performed on the facility and facility component surfaces and the sample

results were all less than the ORNL recommended clearance limit criteria. In addition, there is no history of lead usage or operations associated with the furnishings or items to be removed. No lead controls are needed for this work. If surface lead contamination is suspected, stop work in the area, and contact the Company for guidance.

- iii. **Asbestos.** The Company has performed an asbestos inspection and based on the walkthrough and bulk samples collected, asbestos black tar fillers and pink wall fillers are present on the walls in a small amount in this facility. If electrical wire is discovered that is cloth, cloth braided, rubber-like braided, or that has white insulation inside it is suspect for asbestos and should be treated as asbestos-containing material unless bulk sampling is performed.
- iv. **Beryllium.** There are no Beryllium contamination concerns associated with any of the materials to be removed in this scope. No Beryllium controls are needed for work in this area. If the Seller suspects Beryllium contamination, the Seller shall suspend work and immediately, inform TPO of the Beryllium related issues/concerns, and allow the Company to perform necessary sampling and subsequent cleanup (if applicable).

L. **Building 7035, Vacuum Asbestos Equipment Cleaning Facility – Specific “Unusual Conditions:”**

- a. **Area Operations.** Building 7035 is the Vacuum Asbestos Equipment Cleaning Facility and it serves as the primary area for cleaning vacuum equipment with asbestos contamination as well as Beryllium, Lead, Nano, and low level rad contaminated vacuums. Although no rad contamination is expected, any items identified as radiologically contaminated or suspected as possibly radiologically contaminated are excluded from this scope.
  - i. The demolition of Building 7035 shall consist of the following efforts:
    - a. Segregation, packaging (as needed), and disposition of any remaining materials and/or facility components that need to be removed from the facility prior to demolition efforts.
    - b. Demolition of facility and any remaining facility components.
    - c. Segregation (as needed) and disposition of facility debris.
    - d. Demolition and disposition of associated slabs and foundations.
    - e. Backfilling and soil compaction of impacted area to grade as shown on demolition drawings.
- b. **Contamination.** The Company has performed evaluations and/or characterization of the Seller’s work area for radiological, lead, asbestos, and beryllium contamination. Characterization information compiled by the Company is provided in Attachment 3.
  - i. **Radiological.** Radiological surveys have been performed and no radiological contamination has been detected on the facility itself or on the items to be removed from Building 7035. Any item that has

radiological contamination postings or are suspected to have radiological contamination are excluded from this scope. No controls or PPE are expected to be needed for radiological contamination.

- ii. **Lead.** Surface contamination lead surveys and evaluations have been performed on the surfaces of the items to be removed as well as the facility itself and there are no lead contamination concerns. There is no history of lead usage or operations associated with the furnishings or items to be removed (below the ceiling).
- iii. **Asbestos.** The Company has performed an asbestos inspection and based on the walkthrough and bulk samples collected, no asbestos is present for this facility. If electrical wire is discovered that is cloth, cloth braided, rubber-like braided, or that has white insulation inside it is suspect for asbestos and should be treated as asbestos-containing material unless bulk sampling is performed.
- iv. **Beryllium.** There are no Beryllium contamination concerns associated with any of the materials to be removed or from the facility itself. No Beryllium controls are needed for work in this area. If the Seller suspects Beryllium contamination, the Seller shall suspend work and immediately, inform TPO of the Beryllium related issues/concerns, and allow the Company to perform necessary sampling and subsequent cleanup (if applicable).

**M. Building 7035A, Paint Mix Building – Specific “Unusual Conditions:”**

- a. **Area Operations.** Building 7035A is the Paint Mix Building and it serves as the primary area for paint mixing operations. Although no rad contamination is expected, any items that may be identified as radiologically contaminated or suspected as possibly radiologically contaminated through surveys or from RCTs are excluded from this scope.
  - i. Seller shall wipe down the non-porous surfaces of the structural steel ceiling/roof members to be removed from building prior to demolition, handling, and removal. These items shall be dispositioned as scrap metal, as feasible.
    - a. For the surface wipedown efforts, all upward facing horizontal surfaces shall be either wiped down using a wet wipe or deconned by another OSHA approved method.
  - ii. The demolition of Building 7035A shall consist of the following efforts:
    - a. Segregation, packaging (as needed), and disposition of any remaining materials and/or facility components that need to be removed from the facility prior to demolition efforts.
    - b. Demolition of facility and any remaining facility components.
    - c. Segregation (as needed) and disposition of facility debris.
    - d. Demolition and disposition of associated slabs and foundations.
    - e. Backfilling and soil compaction of impacted area to grade as shown on demolition drawings.



- b. **Contamination.** The Company has performed evaluations and/or characterization of the Seller's work area for radiological, lead, asbestos, and beryllium contamination. Characterization information compiled by the Company is provided in Attachment 3.
- i. **Radiological.** Radiological surveys have been performed and no radiological contamination has been detected on the facility itself or on the items to be removed from Building 7035A. Any item that has radiological contamination postings or are suspected to have radiological contamination are excluded from this scope. No controls or PPE are expected to be needed for radiological contamination.
  - ii. **Lead.** Lead surveys and evaluations have been performed on the facility surfaces and on the surfaces of the remaining items to be removed within the facility. There are no surface lead contamination concerns for any of the remaining items or on the facility except for the structural steel ceiling/roof members. There is no history of lead usage or operations associated with the furnishings or items to be removed (below the ceiling). For the structural steel ceiling/roof members, the upward facing horizontal surfaces shall be wiped down using a wet wipe or deconned by another OSHA-approved method. The materials and PPE used to remove the surface lead contamination shall be placed into a Company-provided container and will be disposed of by the Company. Surfaces shall be visually clean prior to disposition – no confirmatory post wipe down sampling is needed.
  - iii. **Asbestos.** The Company has performed an asbestos inspection and based on the walkthrough and bulk samples collected, asbestos transite wallboard is present on the north and east walls in this facility. If electrical wire is discovered that is cloth, cloth braided, rubber-like braided, or that has white insulation inside it is suspect for asbestos and should be treated as asbestos-containing material unless bulk sampling is performed.
  - iv. **Beryllium.** There are no Beryllium contamination concerns associated with any of the materials to be removed in this scope. No Beryllium controls are needed for work in this area. If the Seller suspects Beryllium contamination, the Seller shall suspend work and immediately, inform TPO of the Beryllium related issues/concerns, and allow the Company to perform necessary sampling and subsequent cleanup (if applicable).

N. **Building 7035B, Paint Storage – Specific “Unusual Conditions:”**

- a. **Area Operations.** Building 7035B is the Paint Storage Building and it serves as the primary area for paint storage. Although no rad contamination is expected, any items that may be identified as radiologically contaminated or suspected as possibly radiologically contaminated through surveys or from RCTs are excluded from this scope.
  - i. Seller shall wipe down the non-porous surfaces of the structural steel ceiling/roof members to be removed from building prior to demolition, handling, and removal. These items shall be dispositioned as scrap metal, as feasible.

- a. For the surface wipedown efforts, all upward facing horizontal surfaces shall be either wiped down using a wet wipe or deconned by another OSHA approved method.
- ii. The demolition of Building 7035B shall consist of the following efforts:
  - a. Segregation, packaging (as needed), and disposition of any remaining materials and/or facility components that need to be removed from the facility prior to demolition efforts.
  - b. Demolition of facility and any remaining facility components.
  - c. Segregation (as needed) and disposition of facility debris.
  - d. Demolition and disposition of associated slab and foundations.
  - e. Backfilling and soil compaction of impacted area to grade as shown on demolition drawings.
- b. **Contamination.** The Company has performed evaluations and/or characterization of the Seller's work area for radiological, lead, asbestos, and beryllium contamination. Characterization information compiled by the Company is provided in Attachment 3.
  - i. **Radiological.** Radiological surveys have been performed and no radiological contamination has been detected on the facility itself or on the items to be removed from Building 7035B. Any item that has radiological contamination postings or are suspected to have radiological contamination are excluded from this scope. No controls or PPE are expected to be needed for radiological contamination.
  - ii. **Lead.** Lead surveys and evaluations have been performed on the facility surfaces and on the surfaces of the remaining items to be removed within the facility. There are no surface lead contamination concerns for any of the remaining items or on the facility except for the structural steel ceiling/roof members. There is no history of lead usage or operations associated with the furnishings or items to be removed (below the ceiling). For the structural steel ceiling/roof members, the upward facing horizontal surfaces shall be wiped down using a wet wipe or deconned by another OSHA-approved method. The materials and PPE used to remove the surface lead contamination shall be placed into a Company-provided container and will be disposed of by the Company. Surfaces shall be visually clean prior to disposition – no confirmatory post wipe down sampling is needed.
  - iii. **Asbestos.** The Company has performed an asbestos inspection and based on the walkthrough and bulk samples collected, asbestos transite wallboard is present on all four walls in this facility. If electrical wire is discovered that is cloth, cloth braided, rubber-like braided, or that has white insulation inside it is suspect for asbestos and should be treated as asbestos-containing material unless bulk sampling is performed.
  - iv. **Beryllium.** There are no Beryllium contamination concerns associated with any of the materials to be removed in this scope. No Beryllium controls are needed for work in this area. If the Seller suspects

Beryllium contamination, the Seller shall suspend work and immediately, inform TPO of the Beryllium related issues/concerns, and allow the Company to perform necessary sampling and subsequent cleanup (if applicable).

O. **Building 7035C, Crane and Elevator Shop – Specific “Unusual Conditions:”**

a. **Area Operations.** Building 7035C is the Crane and Elevator Shop Building and it serves as a maintenance and repair shop for crane and elevator components. Although no rad contamination is expected, any items that may be identified as radiologically contaminated or suspected as possibly radiologically contaminated through surveys or from RCTs are excluded from this scope.

i. The demolition of Building 7035C shall consist of the following efforts:

- a. Segregation, packaging (as needed), and disposition of any remaining materials and/or facility components that need to be removed from the facility prior to demolition efforts.
- b. Demolition of facility and any remaining facility components.
- c. Segregation (as needed) and disposition of facility debris.
- d. Demolition and disposition of associated slab and foundations.
- e. Backfilling and soil compaction of impacted area to grade as shown on demolition drawings.

b. **Contamination.** The Company has performed evaluations and/or characterization of the Seller’s work area for radiological, lead, asbestos, and beryllium contamination. Characterization information compiled by the Company is provided in Attachment 3.

i. **Radiological.** Radiological surveys have been performed and no radiological contamination has been detected on the facility itself or on the items to be removed from Building 7035C. Any item that has radiological contamination postings or are suspected to have radiological contamination are excluded from this scope. No controls or PPE are expected to be needed for radiological contamination.

ii. **Lead.** Surface contamination lead surveys and evaluations have been performed on the surfaces of the items to be removed as well as the facility itself and there are no lead contamination concerns. There is no history of lead usage or operations associated with the furnishings or items to be removed (below the ceiling).

iii. **Asbestos.** The Company has performed an asbestos inspection and based on the walkthrough and bulk samples collected, no asbestos is present for this facility. If electrical wire is discovered that is cloth, cloth braided, rubber-like braided, or that has white insulation inside it is suspect for asbestos and should be treated as asbestos-containing material unless bulk sampling is performed.

iv. **Beryllium.** There are no Beryllium contamination concerns associated with any of the materials to be removed in this scope. No Beryllium controls are needed for work in this area. If the Seller suspects

Beryllium contamination, the Seller shall suspend work and immediately, inform TPO of the Beryllium related issues/concerns, and allow the Company to perform necessary sampling and subsequent cleanup (if applicable).

**P. Building 7035E, Utility Mechanics Storage – Specific “Unusual Conditions:”**

a. **Area Operations.** Building 7035E is the Utilities Mechanics Storage Building and it serves as a storage facility for utility components. Although no rad contamination is expected, any items that may be identified as radiologically contaminated or suspected as possibly radiologically contaminated through surveys or from RCTs are excluded from this scope.

i. Seller shall wipe down the non-porous surfaces of the structural steel ceiling/roof members to be removed from building prior to demolition, handling, and removal. These items shall be dispositioned as scrap metal, as feasible.

a. For the surface wipedown efforts, all upward facing horizontal surfaces shall be either wiped down using a wet wipe or deconned by another OSHA approved method.

ii. The demolition of Building 7035E shall consist of the following efforts:

a. Segregation, packaging (as needed), and disposition of any remaining materials and/or facility components that need to be removed from the facility prior to demolition efforts.

b. Demolition of facility and any remaining facility components.

c. Segregation (as needed) and disposition of facility debris.

d. Demolition and disposition of associated slab and foundations.

e. Backfilling and soil compaction of impacted area to grade as shown on demolition drawings.

b. **Contamination.** The Company has performed evaluations and/or characterization of the Seller’s work area for radiological, lead, asbestos, and beryllium contamination. Characterization information compiled by the Company is provided in Attachment 3.

i. **Radiological.** Radiological surveys have been performed and no radiological contamination has been detected on the facility itself or on the items to be removed from Building 7035E. Any item that has radiological contamination postings or are suspected to have radiological contamination are excluded from this scope. No controls or PPE are expected to be needed for radiological contamination.

ii. **Lead.** Lead surveys and evaluations have been performed on the facility surfaces and on the surfaces of the remaining items to be removed within the facility. There are no surface lead contamination concerns for any of the remaining items or on the facility except for the structural steel ceiling/roof members. There is no history of lead usage or operations associated with the furnishings or items to be removed (below the ceiling). For the structural steel ceiling/roof members, the upward facing

horizontal surfaces shall be wiped down using a wet wipe or deconned by another OSHA-approved method. The materials and PPE used to remove the surface lead contamination shall be placed into a Company-provided container and will be disposed of by the Company. Surfaces shall be visually clean prior to disposition – no confirmatory post wipe down sampling is needed.

- iii. **Asbestos.** The Company has performed an asbestos inspection and based on the walkthrough and bulk samples collected, asbestos transite wallboard is present behind the plywood on all four walls in this facility. If electrical wire is discovered that is cloth, cloth braided, rubber-like braided, or that has white insulation inside it is suspect for asbestos and should be treated as asbestos-containing material unless bulk sampling is performed.
- iv. **Beryllium.** There are no Beryllium contamination concerns associated with any of the materials to be removed in this scope. No Beryllium controls are needed for work in this area. If the Seller suspects Beryllium contamination, the Seller shall suspend work and immediately, inform TPO of the Beryllium related issues/concerns, and allow the Company to perform necessary sampling and subsequent cleanup (if applicable).

**Q. Building 7035F, Shed Storage Facility – Specific “Unusual Conditions:”**

- a. **Area Operations.** Building 7035F is the Shed Storage Facility and it serves as a general storage facility for items in the 7000 Area. Although no rad contamination is expected, any items that may be identified as radiologically contaminated or suspected as possibly radiologically contaminated through surveys or from RCTs are excluded from this scope.
  - i. The demolition of Building 7035F shall consist of the following efforts:
    - a. Segregation, packaging (as needed), and disposition of any remaining materials and/or facility components that need to be removed from the facility prior to demolition efforts.
    - b. Demolition of facility and any remaining facility components.
    - c. Segregation (as needed) and disposition of facility debris.
    - d. Demolition and disposition of associated slab and foundations.
    - e. Backfilling and soil compaction of impacted area to grade as shown on demolition drawings.
- b. **Contamination.** The Company has performed evaluations and/or characterization of the Seller’s work area for radiological, lead, asbestos, and beryllium contamination. Characterization information compiled by the Company is provided in Attachment 3.
  - i. **Radiological.** Radiological surveys have been performed and no radiological contamination has been detected on the facility itself or on the items to be removed from Building 7035F. Any item that has radiological contamination postings or are suspected to have radiological

contamination are excluded from this scope. No controls or PPE are expected to be needed for radiological contamination.

- ii. **Lead.** Lead surveys and evaluations have been performed on the surfaces of the items to be removed as well as the facility itself and there are no lead contamination concerns outside of the locked door. Within the locked room, lead contamination is present. In this room, all horizontal upward facing surfaces shall be abated to decontaminate the surface lead contamination. Surfaces shall be visually clean prior to disposition – no confirmatory post wipe down sampling is needed.
- iii. **Asbestos.** The Company has performed an asbestos inspection and based on the walkthrough and bulk samples collected, no asbestos is present for this facility. If electrical wire is discovered that is cloth, cloth braided, rubber-like braided, or that has white insulation inside it is suspect for asbestos and should be treated as asbestos-containing material unless bulk sampling is performed.
- iv. **Beryllium.** There are no Beryllium contamination concerns associated with any of the materials to be removed in this scope. No Beryllium controls are needed for work in this area. If the Seller suspects Beryllium contamination, the Seller shall suspend work and immediately, inform TPO of the Beryllium related issues/concerns, and allow the Company to perform necessary sampling and subsequent cleanup (if applicable).

**R. Building 7062, Crane Inspection Shop – Specific “Unusual Conditions:”**

- a. **Area Operations.** Building 7062 is the Crane Inspection Shop and it serves as an office for the inspection, maintenance, and repair shop for cranes and crane components. Although no rad contamination is expected, any items that may be identified as radiologically contaminated or suspected as possibly radiologically contaminated through surveys or from RCTs are excluded from this scope.
  - i. The demolition of Building 7062 shall consist of the following efforts:
    - a. Segregation, packaging (as needed), and disposition of any remaining materials and/or facility components that need to be removed from the facility prior to demolition efforts.
    - b. Demolition of facility and any remaining facility components.
    - c. Segregation (as needed) and disposition of facility debris.
    - d. Demolition and disposition of associated slab and foundations. The painted block shall be dispositioned to the Y-12 landfill.
    - e. Backfilling and soil compaction of impacted area to grade as shown on demolition drawings.
- b. **Contamination.** The Company has performed evaluations and/or characterization of the Seller’s work area for radiological, lead, asbestos, and beryllium contamination. Characterization information compiled by the Company is provided in Attachment 3.

- i. **Radiological.** Radiological surveys have been performed and no radiological contamination has been detected on the facility itself or on the items to be removed from Building 7062. Any item that has radiological contamination postings or are suspected to have radiological contamination are excluded from this scope. No controls or PPE are expected to be needed for radiological contamination.
  - ii. **Lead.** Surface contamination lead surveys and evaluations have been performed on the surfaces of the items to be removed as well as the facility itself and there are no lead contamination concerns. There is no history of lead usage or operations associated with the furnishings or items to be removed (below the ceiling).
  - iii. **Asbestos.** The Company has performed an asbestos inspection and based on the walkthrough and bulk samples collected, asbestos window caulking and window glazing is present on the windows and door of this facility. If electrical wire is discovered that is cloth, cloth braided, rubber-like braided, or that has white insulation inside it is suspect for asbestos and should be treated as asbestos-containing material unless bulk sampling is performed.
  - iv. **Beryllium.** There are no Beryllium contamination concerns associated with any of the materials to be removed in this scope. No Beryllium controls are needed for work in this area. If the Seller suspects Beryllium contamination, the Seller shall suspend work and immediately, inform TPO of the Beryllium related issues/concerns, and allow the Company to perform necessary sampling and subsequent cleanup (if applicable).
- S. **Building 7070, Storage Shed – Specific “Unusual Conditions:”**
- a. **Area Operations.** Building 7070 is the Storage Shed and it serves as a covered storage area for a variety of items and waste containers. It also serves as the location for the asbestos and fiberglass compaction activities for waste disposal. Although no rad contamination is expected, any items that may be identified as radiologically contaminated or suspected as possibly radiologically contaminated through surveys or from RCTs are excluded from this scope.
    - i. The demolition of Building 7070 shall consist of the following efforts:
      - a. Segregation, packaging (as needed), and disposition of any remaining materials and/or facility components that need to be removed from the facility prior to demolition efforts.
      - b. Demolition of facility and any remaining facility components.
      - c. Segregation (as needed) and disposition of facility debris.
      - d. Demolition and disposition of associated slab and foundations.
      - e. Backfilling and soil compaction of impacted area to grade as shown on demolition drawings.
  - b. **Contamination.** The Company has performed evaluations and/or characterization of the Seller’s work area for radiological, lead, asbestos, and

beryllium contamination. Characterization information compiled by the Company is provided in Attachment 3.

- i. **Radiological.** Radiological surveys have been performed and no radiological contamination has been detected on the facility itself or on the items to be removed from Building 7070. Any item that has radiological contamination postings or are suspected to have radiological contamination are excluded from this scope. No controls or PPE are expected to be needed for radiological contamination.
- ii. **Lead.** Surface lead contamination surveys and evaluations have been performed on the surfaces of the items to be removed as well as the facility itself and there are no lead contamination concerns. There is no history of lead usage or operations associated with the furnishings or items to be removed (below the ceiling).
- iii. **Asbestos.** The Company has performed an asbestos inspection and based on the walkthrough and bulk samples collected, asbestos roof flashing type material is present outside along the foundation slab at the base of the facility. In addition, trace amounts of asbestos were discovered in the black tar roof screws on the roof for which removal and disposal shall be in accordance with the OSHA “Unclassified Work Operation” consisting, at a minimum, utilization of wet methods, HEPA Vacuums, prompt cleanup, and an asbestos exposure assessment is required for the demolition of this roof. As allowed per the operation, this waste may be disposed of as construction debris. If electrical wire is discovered that is cloth, cloth braided, rubber-like braided, or that has white insulation inside it is suspect for asbestos and should be treated as asbestos-containing material unless bulk sampling is performed.
- iv. **Beryllium.** There are no Beryllium contamination concerns associated with any of the materials to be removed in this scope. No Beryllium controls are needed for work in this area. If the Seller suspects Beryllium contamination, the Seller shall suspend work and immediately, inform TPO of the Beryllium related issues/concerns, and allow the Company to perform necessary sampling and subsequent cleanup (if applicable).

**T. Building 7082, Salt Shed – Specific “Unusual Conditions:”**

- a. **Area Operations.** Structure 7082 is the Salt Shed and it serves as a covered storage area for salt and other components for treating the roadways during inclement weather. Although no rad contamination is expected, any items that may be identified as radiologically contaminated or suspected as possibly radiologically contaminated through surveys or from RCTs are excluded from this scope. The Salt shed has structurally deteriorated throughout recent years and is currently in a potentially unstable condition. All personnel shall use caution while around this structure prior to and during demolition efforts.
- i. The demolition of Building 7082 shall consist of the following efforts:



- a. Segregation, packaging (as needed), and disposition of any remaining materials and/or facility components that need to be removed from the facility prior to demolition efforts.
  - b. Demolition of facility and any remaining facility components.
  - c. Segregation (as needed) and disposition of facility debris.
  - d. Demolition and disposition of associated slab and foundations as well as the concrete pad immediately to the west of the facility slab.
  - e. Backfilling and soil compaction of impacted area to grade as shown on demolition drawings.
- b. **Contamination.** The Company has performed evaluations and/or characterization of the Seller's work area for radiological, lead, asbestos, and beryllium contamination. Characterization information compiled by the Company is provided in Attachment 3.
- i. **Radiological.** Radiological surveys have been performed and no radiological contamination has been detected on the facility itself or on the items to be removed from Building 7082. Any item that has radiological contamination postings or are suspected to have radiological contamination are excluded from this scope. No controls or PPE are expected to be needed for radiological contamination.
  - ii. **Lead.** Based on historical usage, lead surveys were not performed on the surfaces of the items to be removed as well as the facility itself. Given the historical usage, there are no lead contamination concerns. There is no history of lead usage or operations associated with the structure or items to be removed.
  - iii. **Asbestos.** The Company has performed an asbestos inspection and based on the walkthrough and bulk samples collected, no asbestos is present for this facility. Inspections were performed for suspect electrical wiring and none was discovered; however, if electrical wire is discovered that is cloth, cloth braided, rubber-like braided, or that has white insulation inside it is suspect for asbestos and should be treated as asbestos-containing material unless bulk sampling is performed.
  - iv. **Beryllium.** There are no Beryllium contamination concerns associated with any of the materials to be removed in this scope. No Beryllium controls are needed for work in this area. If the Seller suspects Beryllium contamination, the Seller shall suspend work and immediately, inform TPO of the Beryllium related issues/concerns, and allow the Company to perform necessary sampling and subsequent cleanup (if applicable).

U. **Building 7105, Line Crew Office Trailer– Specific “Unusual Conditions:”**

- a. **Area Operations.** Building 7105 is the Line Crew Office Trailer and it serves as an office space for the Line Crew. Although no rad contamination is expected, any items that may be identified as radiologically contaminated or

suspected as possibly radiologically contaminated through surveys or from RCTs are excluded from this scope.

- i. The demolition of Building 7105 shall consist of the following efforts:
  - a. Segregation, packaging (as needed), and disposition of any remaining materials and/or facility components that need to be removed from the facility prior to demolition efforts.
  - b. Demolition of facility and any remaining facility components.
  - c. Segregation (as needed) and disposition of facility debris.
  - d. Demolition and disposition of associated slab and foundations.
  - e. As needed, backfilling and compacting impacted area to grade as shown on demolition drawings.
  
- b. **Contamination.** The Company has performed evaluations and/or characterization of the Seller's work area for radiological, lead, asbestos, and beryllium contamination. Characterization information compiled by the Company is provided in Attachment 3.
  - i. **Radiological.** Radiological surveys have been performed and no radiological contamination has been detected on the facility itself or on the items to be removed from Building 7105. Any item that has radiological contamination postings or are suspected to have radiological contamination are excluded from this scope. No controls or PPE are expected to be needed for radiological contamination.
  - ii. **Lead.** Surface contamination lead surveys and evaluations have been performed on the surfaces of the items to be removed as well as the facility itself and there are no lead contamination concerns. There is no history of lead usage or operations associated with the furnishings or items to be removed (below the ceiling).
  - iii. **Asbestos.** The Company has performed an asbestos inspection and based on the walkthrough and bulk samples collected, no asbestos is present for this facility. If electrical wire is discovered that is cloth, cloth braided, rubber-like braided, or that has white insulation inside it is suspect for asbestos and should be treated as asbestos-containing material unless bulk sampling is performed.
  - iv. **Beryllium.** There are no Beryllium contamination concerns associated with any of the materials to be removed in this scope. No Beryllium controls are needed for work in this area. If the Seller suspects Beryllium contamination, the Seller shall suspend work and immediately, inform TPO of the Beryllium related issues/concerns, and allow the Company to perform necessary sampling and subsequent cleanup (if applicable).

V. **General Site Specific "Unusual Conditions:"**

- a. **Area Operations.** The general demolition area, as defined by and described in the drawings, has been used primarily for storage, parking, and staging of materials. In this area, there are asphalt roads and parking spaces, concrete

pads, “gravel” areas (these “gravel” areas contain a combination of old asphalt, gravel, and possibly other ground coverings), and fences

**NOTE:** The demolition drawings provide the primary detail for the demolition scope. This additional narrative is intended as summary and supplemental information.

- i. The identified concrete pads shall be removed as described on the demolition drawings. These pads shall be demolished, and appropriately size-reduced prior to disposition. During demolition efforts, prior to size-reduction operations, Company RCTs will be present to survey the underside of the concrete pads. If radiological concerns, the RCTs shall stop work and provide guidance. Seller shall disturb any rock and materials under the concrete pads as little as possible when removing the concrete. Seller shall coordinate with the Company Waste Service Representative as to the disposal destination in advance of disposition. The areas where the slabs are removed shall be backfilled to grade with approved fill and compacted – per the requirements from the Demolition drawings.
  - ii. The identified fences shall be removed as described on the demolition drawings. The fence posts and concrete piers shall be removed and the holes from the concrete piers shall be backfilled to grade with approved fill and compacted – per the requirements from the Demolition drawings.
  - iii. The identified utility poles on the demolition drawings shall also be removed and dispositioned appropriately. The utility poles shall be completely removed, and disturbed areas backfilled and compacted as necessary. Backfilling and compacting shall be in accordance with the specifications and drawings.
  - iv. Additional items as identified on the demolition drawings, such as the sheds or trailer, shall also be demolished and appropriately dispositioned (segregating where applicable).
  - v. Backfilling and compacting impacted area to grade as shown on demolition drawings.
- b. **General Site Contamination.** The Company has performed evaluations and/or characterization of the Seller’s work area for radiological, lead, asbestos, and beryllium contamination. Characterization information compiled by the Company is provided in Attachment 3.
- i. **Radiological.** Radiological surveys have been performed radiological contamination has not been detected on the items to be removed from the general site area. Company RCTs will be present during the removal of asphalt and concrete pads to survey the underside and other previously inaccessible surfaces. No radiological contamination is expected on these surfaces; however, if rad contamination is discovered, Seller shall suspend work in this area and await Company instruction. Any item that has radiological contamination postings or are suspected to have

radiological contamination are excluded from this scope. No controls or PPE are anticipated for radiological contamination.

- ii. **Lead.** Lead evaluations have been performed in these areas and on these items and there is no history of lead usage or operations associated with lead in this area, so no controls for lead are needed for work in this area.
  - iii. **Asbestos.** The Company will perform asbestos inspections in regard to the concrete slabs and determine if any suspect expansion joint materials are present. If present, asbestos bulk sampling will be performed and results provided by the Company. If electrical wire is discovered that is cloth, cloth braided, rubber-like braided, or that has white insulation inside it is suspect for asbestos and should be treated as asbestos-containing material unless bulk sampling is performed.
  - iv. **Beryllium.** There are no Beryllium contamination concerns associated with this area. No Beryllium controls are needed for work in this area. If the Seller suspects Beryllium contamination, the Seller shall suspend work and immediately, inform TPO of the Beryllium related issues/concerns, and allow the Company to perform necessary sampling and subsequent cleanup (if applicable).
- W. **RCT Survey Requirements.** All Seller equipment brought on site will require survey by Company Radiological Protection personnel prior to use and prior to removal from the site. The Seller shall provide the Company 24-hour notice in advance of the survey requirement; The Company will direct the Seller as to the location of the survey area. Materials, structures, and components over 7 feet in elevation will be screened and evaluated by Company RCTs prior to removal and disposition.
- X. **Company interface regarding radiological contamination.** Applicable items and components included in the Seller's demolition scope have been evaluated and surveyed by the Company and no actionable levels of radiological contamination have been discovered. Even though the initial radiological surveys showed no concerns, it is possible that previously inaccessible surfaces could be radiologically contaminated. These inaccessible surfaces may include the underside of the concrete pads to be removed, underside of the fence posts to be removed, as well as elevated surfaces over 7 feet in height. The Company will provide RCT support to perform surveys during demolition efforts. The Seller shall work with the Company RCTs to obtain these rad surveys. No radiological contamination is expected; however, if radiological contamination is discovered, the Seller shall suspend work immediately and the Company will provide further instruction on how to proceed.
- Y. **Protecting monitoring wells.** As shown on the demolition drawings monitoring wells are present in the demolition area. Seller shall protect all monitoring wells. These wells will be removed in a later phase of demolition but shall be protected during this effort. These wells shall be protected from damage (surface and underground) during the entire duration of the project – protective measures and condition documentation requirements are described on the drawings. These protection measures shall be removed prior to demobilization.

The Seller shall submit a description of the protective measures to be used around the monitoring wells and steps that will be taken to ensure protection during demolition activities. These protective measures must be reviewed and approved by the Company prior to beginning work on or around these monitoring wells.

Z. **Silica Requirements.** As applicable, the Seller shall review and adhere to the requirements described in 10 CFR 851. The amendment mandates implementation of the 2016 ACGIH Threshold Limit Values and Biological Exposure Indices. This change requires all DOE contractors and their subcontractors to meet the ACGIH silica exposure limit of 25 micrograms per cubic meter of air (ug/m<sup>3</sup>) instead of the OSHA limit of 50 ug/m<sup>3</sup>. This also means that Table 1 found in 29 CFR 1926.1153 can no longer be used as a means of compliance. Subcontractors (Company and/or Seller) will still be required to implement all other requisite controls in 29 CFR 1926.1153 to mitigate silica exposures but will also have to conduct sampling or produce objective or recent historical sampling data as discussed in Section 11100 - to verify compliance with the TLV. Seller shall implement interim protective measures for all potential exposure tasks until exposure monitoring provides evidence that workers are not exposed above the TLV for respirable crystalline silica.

AA. **Respirable Crystalline Silica Compliance Requirements.** (As applicable)

- a. Seller shall conduct all work in compliance with applicable requirements of the OSHA respirable silica standard, 29 CFR 1926.1153.
- b. The Seller CIH shall evaluate areas and establish requirements and actions needed to provide a safe working environment during activities that have been identified to contain the potential for airborne concentrations of respirable silica.
- c. Each work activity that involves the potential for exposure to respirable silica shall be evaluated on a case-by-case basis. Appropriate controls and protective measures shall be specified in Job Instructions, compliance plans, as required, or other work control documentation developed for this activity.

BB. **Emergency Response during demolition.** While performing work on the Company site, the Seller shall contact the ORNL LSS for Emergency assistance (576-4577 or 574-6606. **(Dialing 911 (on a cell phone) while on the ORNL campus will alert the Oak Ridge emergency response, not ORNL.)** The Seller shall call the appropriate emergency response as warranted, but only after the situation is in a "safe" condition. Once the emergency response has been notified, the Seller shall contact the CFR or TPO. Unnecessary delays are not acceptable to inform the CFR or TPO after an emergency response notification.

## 1.1 WORK PLANNING

A. The Seller shall develop and submit for approval a Demolition Work Plan within 10 calendar days of contract award. Subordinate plans (e.g., Safety and Health Plans, Asbestos Work Plan, etc.) may be submitted separately for review and approval but shall be referenced in the Demolition Plan at a minimum. The Demolition Plan shall

contain the following, at a minimum:

1. Identify additional characterization requirements or state the sufficiency of existing characterization data to support worker safety;
2. As applicable, include an engineering survey of each facility prior to demolition in accordance with 29CFR 1926.850 (a). The engineering survey shall be performed by a registered professional engineer and assess each facility's structural integrity and identify any demolition approach or sequencing requirements for safe demolition, including the requirements for protection of adjacent infrastructure and facilities;
3. Identify methodologies to segregate, demolish (size reduction to fit into waste containers, segregation of materials during demolition efforts, etc.) and/or disposition items included in the demolition scope;
4. As necessary, identify methods to abate and segregate waste items that will be abated prior to or during demolition activities, including universal waste, asbestos materials, hazardous materials (e.g., lead), and segregate debris for disposal;
5. Identify waste handling methodologies and size reduction strategies that comply with waste disposal requirements for disposal at the Y-12 Landfill, including implementation of the required packaging and transportation requirements identified in Specifications 017419;
6. Identify control activities to be used to ensure the health and safety of workers and the general plant population, and the protection of adjacent facilities during demolition and waste disposal;
7. As applicable, include an Asbestos Work Plan prepared and signed by a TN accredited asbestos project designer;
8. Identify all liquid wastes anticipated to be generated and proposed disposal pathway. (This is a submittal requirement under DIV 1, 015500-Environmental Protection.
9. Include a Safety and Health Plan per the requirements of Specification 011100, including:
  - a. Exposure Monitoring Plan (as required);
  - b. Lead Compliance Plan (as required);
  - c. Any other required toxic metals plan(s) (as required);
  - d. Hearing Conservation Program (as required);
  - e. Fall Protection Plan (as required).
- B. Seller's equipment may become contaminated during the course of this work. Seller equipment shall be decontaminated as required for release prior to removal from the work area. Seller shall submit a Decontamination and Contaminated Material Control procedure for the Company's review and approval prior to bringing Seller equipment on-site. Seller shall obtain Company's authorization prior to removal of any

equipment from the site.

1. Prior to Seller equipment arriving at the site, Seller shall inform Company of any specific radioactive contaminants that could be left over from previous work. Company will survey Seller's equipment upon arrival at the Site to verify equipment meets Company's health physics standards for radioactivity before it will be permitted to enter the site. The Company reserves the right to reject equipment that does not meet these limits/standards.
2. The equipment shall also be free of non-radioactive hazardous contaminants upon arrival at the Site. Seller shall verify to the Company that the equipment does not contain hazardous contaminants upon arrival, including residual hazardous contaminants that might be hidden inside equipment. In the event that the equipment is found contaminated upon arrival, Seller will not be permitted to commence work until the equipment is free of significant (non-trace) non-Company contamination, as defined by Company. Any preliminary decontamination to remove non-Company hazardous contaminants that may be required shall be performed by the Seller at Seller's off-site facility prior to delivery.
3. Upon completion of the work, Company will survey and inspect Seller's equipment before it is released from the work area to establish a post-processing radiation contamination profile. Seller shall provide the Company with 24-hr notice that surveys are required. If the equipment contamination profile exceeds the required exit decontamination limits, Seller shall carry out additional radioactive decontamination in accordance with the Seller's approved procedures.
4. Seller shall take all reasonable measures to mitigate the potential for contamination of its major equipment (major equipment excludes tools and equipment accessories) during performance of the work. If Company determines that required exit decontamination limits for any item of major equipment is unattainable, despite Seller's best efforts, Seller will be compensated for the appraised value of the major equipment considering age, condition, and value of similar equipment, unless contamination of said equipment is deemed by the Company to be the result of carelessness or negligence on the part of the Seller. If an agreed upon value cannot be negotiated, an independent appraiser may be used to determine value.

## **PART 2 - PRODUCTS**

### **2.1 PROPERTY FURNISHED TO THE SELLER**

1. No property will be furnished by the Company to the Seller for this Task Release.

## **PART 3 – EXECUTION**

### **3.1 PREPARATION**

#### **A. Training**

1. Ensure work-specific training is provided before performing work activities.
2. Each worker shall complete ORNL Site Access Training (SAT). If SAT is not

current or expires during the Task, then SAT shall be retaken immediately.

3. Seller shall Submit a training matrix and associated training records for Company approval within **7 calendar days** of contract award. Training matrix shall identify, as a minimum, training requirement by position or job title; names and badge numbers of personnel in each position or job title, and dates of applicable training for each employee. Proof of training shall be provided for each employee within 14 calendar days.
4. Submit an updated training matrix and proof of training for any training that expires or new training qualification that is required, prior to performing work activities.
5. Submit updated training matrix and proof of training for any new employees prior to performing work activities.

### 3.2 PROJECT SIGN

- A. Post identification and emergency notification signs in a conspicuous location at the work site, such as affixed to sanctions or fences, so that they are clearly visible. All points of entry shall have a sign warning of the pre-requisites.
- B. Identification signs shall be weatherproof and have the following information at the minimum:
  1. Project title and contract number.
  2. Name, address, and phone number of the Seller's business.
  3. Name and phone number of person available 24 hours, seven days per week, to be notified in case of an emergency. Phone number may be pager or cellular phone.

**Note:** If requested, the Company will provide the Seller a template sign as a reference guide.

### 3.3 MANAGEMENT REPORTING OF ACCIDENTS AND INCIDENTS

- A. Notification:
  1. Emergencies will be reported immediately to the ORNL LSS by calling 574-6606, activating a red pull box or by dialing 911 from an ORNL landline. After reporting to LSS, notification to the Company TPO should be made within 15 minutes.
  2. If there is any unplanned, unusual work condition that presents an actual or potential hazard or threat to workers or facility infrastructure, it shall be reported to the Company as soon as possible after the event occurs, and in no case longer than 15 minutes after the event occurs unless acute personnel or facility hazards associated with the event prevent subcontractor personnel from contacting the TPO.
- B. Preservation of the site following an accident or incident:
  1. The Seller shall make every effort to preserve the site following an accident or



near-miss incident. Take pictures of the site. Have all witnesses provide a statement on what they saw or heard.

2. Taking care of any injured personnel takes precedence over preservation of the accident site.

C. Accident/Incident report:

1. Submit an “Individual Accident/Incident Report” (DOE Form 5484) within two working days of a recordable or lost time injury or illness (Occupational Safety and Health Administration definition). The Company will provide the report form upon request.
2. The Seller must perform a structured accident investigation for any lost time injury for any significant non-injury accident/incident that disrupts project operations. An accident investigation report (in addition to the Form 5484, if applicable, discussed in Section C.1 above) containing the following information must be submitted to the Company within three working days:
  - a. A timeline of critical events before, during, and immediately after the accident/incident.
  - b. A causal analysis listing the direct cause, contributing cause(s), and root cause(s) of the accident/incident; the causes shall also identify in which area of the five core functions of ISMS (see Section 011100, 1.1.A) the cause occurred.
  - c. A corrective action plan listing actions and completion dates that the Seller has taken or plans to take, to correct any deficient conditions or worker behaviors that led to the accident/incident. The corrective action plan should also consider the applicability of the actions to other projects that the Seller may be performing at ORNL.

**END OF  
SECTION**



CRSF Site

Copper Ridge  
Spoils Area

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**SECTION 01 11 00  
SAFETY AND HEALTH  
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## SECTION 01 11 00 - SAFETY AND HEALTH

## PART 1 - GENERAL

## 1.1 ATTACHMENTS:

- A. Section 011100, Safety and Health Addendum 1, Functional Areas.
- B. Subcontractor Silica Sampling Report Form/Instructions (Addendum 2)

## 1.2 SAFETY AND HEALTH PROGRAM

- A. Oak Ridge National Laboratory (ORNL) is committed to accomplishing construction work in a manner that ensures protection of workers, the public, and the environment. In order to meet that commitment, ORNL has implemented an Integrated Safety Management System (ISMS). The objective of ISMS is to WORK SAFELY. By systematically integrating safety into management and work practices at all levels, work is accomplished while protecting the public, the worker, and the environment. Safety management activities can be grouped into five core safety management functions:

- 1. Define the scope of work.
- 2. Analyze the hazards.
- 3. Develop and implement hazard controls.
- 4. Perform work within controls.
- 5. Provide feedback and continuous improvement.

These five core safety management functions provide the necessary structure for safely accomplishing any work activity and are applied as a continuous cycle with the degree of rigor appropriate to address the type of work activity and the hazard involved.

- B. **Submit for approval a written project specific Safety and Health (S&H) Plan within 15 calendar days after award or 15 working days prior to field activities.** The plan shall be compliant with all Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and Occupational Safety and Health Administration (OSHA) requirements. The plan shall:

- 1. Address how the Seller will implement the S&H requirements described in the project subcontract documents, i.e., terms and conditions, technical specifications, and drawings.

2. Designate the individual responsible for on-site implementation of the plan and who has authority to act on behalf of the Seller, including the qualifications of the designated individual.
3. Provide a list of those project activities for which subsequent hazard analysis are to be performed.
4. Include Sellers' Exposure Monitoring Plan to meet the requirements of this Division 011100 Addendum 1 Section 1.7.7 and 1.7.8.

- C. **Submit for approval a written hazard analysis (HA), addressing project specific hazards, to the Company a minimum of 10 workdays prior to site activities.** Using ISMS as described in Section 1.1.A, the HA shall identify work tasks anticipated during the construction work, as well as any potential health, safety, and environmental hazards that could reasonably be expected during the work activities, and list specific actions or precautions that will be taken to minimize the risk of such hazards that could cause an accident, injury, illness, or environmental insult. Prior to submission to the Company for approval, the HA shall be approved by a safety manager (or equivalent) and a line manager in the Seller's work execution team.

The HA shall be revised whenever activities, hazards, or hazard controls change. Minor revisions (not significantly changing the safety risk profile of the job) shall be approved by a competent manager or supervisor of the Seller. In addition, significant revisions to the HA (changes in job scope, the Seller means and methods, etc. from the previously approved HA that result in a significant change in the safety risk profile of the work) shall be submitted to the Company for approval. All final, approved changes to the HA shall be communicated to the affected workers.

The HA shall identify competent persons (e.g., asbestos, lead, silica, excavation, etc.) required for workplace inspections of the construction activity, where required by Occupational Safety and Health Administration (OSHA) standards.

The HA shall provide drawing and/or other documentation of protective measures for which applicable OSHA standards require preparation by a professional engineer or other qualified professional.

The HA shall notify/inform employees that if unsafe conditions have not been addressed, each employee has the right to contact either the ORNL Employee Concern Program by calling 1-888-280-0616, or the Department of Energy Oak Ridge Operations (DOE- ORO) Employee Concerns Hotline at 865-241-3267.

A copy of the HA shall be readily available at the work site in such a way as to make the information readily available to workers in the work area on a continuous basis. Anyone performing hands-on work and anyone requiring unescorted access to the site shall be required to review and sign the HA prior to entering the work area. Each worker shall be briefed on the hazards specific to their work before signing the HA and shall be rebriefed as often as necessary to ensure their understanding of the HA hazard controls applicable to their daily work activities.

A sample of the Change Summary sheet, HA form and signature sheet are available on the ORNL Procurement web site.

- D. The Seller and its lower tier subcontractors shall conduct pre-task briefings, enough to ensure job site safety, with affected workers to review hazards and hazard controls for tasks planned that day.
- E. The Seller shall confirm that training for their employees and their lower tier subcontractor employees is adequate for the tasks being performed. Documentation of training shall be provided if requested by the Company.
- F. Submit tabulation of man-hours worked on a monthly basis using the “Tabulation of Work Hours” form provided on the Procurement website. This should include all work hours for both manual and non-manual personnel on the job.

### 1.3 SAFETY AND HEALTH ENFORCEMENT

- A. During all execution of field construction activities, the Seller shall designate the role of a safety officer responsible for the safe conduct of work on the site. The role may be assigned to the designated site superintendent under the following conditions:
  - 1. The site superintendent has the technical competency to identify, understand and manage all aspects of hazard analysis, hazard mitigation, and safe work control for all work going on at the site at any given time.
  - 2. The site superintendent recognizes assignment of the safety officer role takes primacy over any other supervision duties.
  - 3. The site superintendent demonstrates competency to meet the Company expectations as a safety officer capable to oversee the conduct of safe work by the Seller in all regards.
- B. To the extent the Seller’s site superintendent cannot or does not meet these expectations for the role of the work’s designated safety officer for all work going on at any given time, the Seller will be expected to appoint another person with sufficient competency and responsibility to meet the Company’s requirements and expectations for the appropriate safety management of the ongoing work as the Seller’s designated safety officer. This designated individual shall have sufficient knowledge and understanding of the work, the Seller’s means and methods, and any applicable regulatory requirements to ensure the work can be prosecuted safely and compliantly. This person shall also have:
  - 1. Minimum 30-hour OSHA construction safety course.
  - 2. Experience and the authority to stop work if the S&H of a worker or the environment are in danger.
  - 3. Sufficient time and resource to execute the designated S&H responsibilities as the first priority of work. The designated person may have concurrent additional jobsite duties only to the extent those additional duties do not interfere with the

ability to perform S&H responsibilities. **The S&H shall be the first priority and any other duties shall be immediately suspended if they interfere.**

- C. The designated S&H person shall have the following responsibilities:
1. Perform and document **daily** safety inspections and correct deficiencies immediately. If deficiencies cannot be corrected, immediately stop related work until correction is completed. Maintain a logbook of inspections, safety meetings, and other project related activities.
  2. Conduct safety meetings/briefings with workers to discuss precautions, needed improvements, and relevant safety topics for the work being performed prior to beginning new tasks, and as often as necessary thereafter to assure that workers recall the essentials HA elements of the work they are undertaking.
  3. Ensure project personnel and unescorted visitors review and sign off as having reviewed a copy of the project HA before entering the construction site.
  4. Revise the HA to reflect changes in the project scope of work, the Seller means and methods, or changes resulting from site conditions. Document additional work tasks, hazards associated with those tasks, and required safety actions in the HA.
  5. Serve as the Seller's point of contact for site S&H concerns.
  6. Ensure appropriate industrial hygiene monitoring and safety services are provided, including instrument calibration and record keeping.
  7. Remain on site or ensure a competent, designated alternate (that has been approved by the TPO) remains on site at all times during work activities.
  8. Ensure initial and daily inspections of equipment and certification/qualification of equipment operators are current.
  9. Submit documentation for resolution of serious findings identified by the Company within 1 business day of resolution.
  10. Issue required respirators (radiological, asbestos, mercury, etc.) for all personnel.

#### 1.4 APPLICABLE CODES, REGULATIONS, AND STANDARDS

- A. Work shall be performed in accordance with the following codes and regulations without limitations, as applicable to items in this task order:

1. The OSHA 29 Code of Federal Regulations (CFR) 1926 (with the exception of 1926.53 superseded by 10 CFR 835) and applicable sections of 1910 including all referenced codes and standards.
2. The DOE 10 CFR 851.
3. American National Standards Institute, Inc. (ANSI) B30 Series.
4. The ANSI/Site Area Emergency (SAE) J67 (Oct80), Shovel Dipper, Clam Bucket, and Dragline Bucket Rating (equipment design specification only).
5. The ANSI/Security Industry Association (SIA) A92.2 (1990), American National Standard for Vehicle-Mounted Elevating and Rotating Aerial Devices (equipment design specification only).
6. American Society of Mechanical Engineers (ASME) B56.6 (1993), Rough Terrain Fork Lift Trucks (equipment design specification only).
7. National Safety Council (NSC) A10.31 (1995), Construction and Demolition--Digger Derricks Safety Requirements (equipment design specification only).
8. United States Department of Transportation, (USDOT) Hazardous Materials Regulations, 40 CFR 106 199 and 49 CFR 325-399.
9. National Fire Protection Association (NFPA) Standards including NFPA 51B- 1989, "Fire Prevention in Use of Cutting and Welding Processes".
10. National Electrical Code Handbook.
11. American Conference of Governmental Industrial Hygienists (ACGIH) "Threshold Limit Values and Biological Exposure Indices."
12. The ANSI Z49.1, "Safety in Welding and Cutting".
13. The ANSI Z88.6, 1984, "For Respiratory Protection Respirator Use Physical Qualifications for Personnel" and ANSI Z88.2, "Practices for Respiratory Protection".
14. The DOE Standard, Hoisting and Rigging, DOE-STD-1090-2011 (available on the ORNL Procurement web site).

B. In the event of conflicts between the cited regulations, notify the Company for resolution.

## 1.5 HAZARDOUS WORK REQUIREMENTS

A. Airborne contaminants.



1. Airborne contaminants (chemicals, dust, cutting/grinding debris, etc.) shall be minimized to the extent reasonably practical, and in no case shall personnel exposures be allowed greater than the accepted standards for airborne contaminants to:
    - a. Workers without personal protective equipment (PPE) or other protective measures outside the designated work area;
    - b. Workers inside the work area, including those utilizing protective measure or equipment.
  2. Use appropriate dust-reducing methods such as vacuuming, wetting, enclosures, air flow control, and PPE during operations that can introduce airborne contaminants.
  3. The Company shall be notified of planned activities that produce airborne contaminants so that it can assess whether appropriate protections are in place to avoid over-exposures outside the job boundary, and/or to avoid plant upset conditions (such as inadvertently triggering a facility smoke alarm).
- B. Confined space. **[RESERVED]**
- C. Demolition.
1. The Company shall ensure electric, gas, water, steam, other service lines be shut off, capped, otherwise controlled outside building line before demolition work is started.
  2. The Company shall determine if any type of hazardous chemicals, gases, explosives, flammable materials, or similarly dangerous substances have been used in any pipes, tanks, or other equipment on the property. When the presence of any such substances is apparent or suspected, testing and purging shall be performed, and the hazard eliminated before demolition is started.
- D. Electrical.
1. Electrical safety.
    - a. The Company will isolate known utilities for the subject facilities and structures in this task order.
    - b. The Seller shall provide a qualified electrician to ensure electrical utilities have been de-energized. (The Seller shall also perform utility inspection with the Company for other known utilities to ensure these are in a safe configuration for work to be performed, prior to beginning the work.)
    - c. Conduct electrical installation and maintenance operations in accordance with requirements in 29 CFR 1926 Subpart K, applicable requirements in 29 CFR 1910 Subpart S, NFPA *Standard for Electrical Safety in the Workplace* (NFPA 70E), and the National Electrical Code.
    - d. Ensure electrical work is performed by qualified persons as defined in 1910.331-335.

- e. Provide a ground fault circuit interrupter for cord sets, receptacles, and electrical tools including plug and cord connections to generators and equipment for employee use.
2. The HA is utilized to ensure workers understand their role in the work to be performed, as well as what others involved in that project or task will be doing. Supervisory approval for “working on or near” or “working hot” shall be given in the Electrical Energized Work Permit (available on the ORNL Procurement web site). “Working on or near” or “working hot” requires approval by the subcontractor supervisor, UT-Battelle, LLC (UT-B), Technical Project Officer (TPO), and UT-B Complex Facility Manager. Subcontractor shall follow the guidelines presented in the NFPA 70E tables for determining approach boundaries and PPE.
3. Safety concerns regarding shared neutrals.

The Seller shall be aware that the lockout/tag-out (LO/TO) of individual electrical circuits will not ensure that its associated electrical wiring will be completely de-energized. Disconnected neutrals of circuits which employ shared neutrals can remain energized with normal system voltage, a condition which is prevalent in industry wide 120/240 volt (V), 120/208V and 277/480V building circuitry.

For example, in 120/208V lighting circuits, a shared neutral is commonly used for up to three 120V circuits. Three phase wires fed from three circuit breakers (circuits 1, 3 and 5; etc.) and a shared neutral are sent from an electrical panel board to distant light fixtures via a common conduit and junction box system. If one of the circuit breakers is locked out and the other two remain energized, and the shared neutral conductor is disconnected, 120V will routinely be present on the disconnected neutral conductor. In such cases, 120V will be fed from an associated circuit breaker hot phase, through the electrical load (such as the filament of an incandescent bulb), to energize the disconnected neutral conductor with 120V.

When working on circuitry employing shared neutrals, measuring for the presence of voltage on disconnected neutrals is not an adequate safety measure. For example, a light switch on one of the associated circuits may be off, with its circuit breaker still closed (light switches are typically not locked out). A case can result, when zero voltage is measured on a disconnected neutral, due to a light switch being turned off. If one proceeds to work on the disconnected neutral of that circuit, and a light switch is turned on, then 120V will be injected onto the disconnected neutral. Note that a similar situation can exist in facilities where the neutrals are cross-connected between circuits (including circuits from different panels); hence isolating all the circuits in a single panel (using a main breaker or disconnect) may also not ensure that circuit wiring is de-energized and/or isolated.

Due to the above, when work is performed on neutral conductors of any building electrical system, the neutral conductors should be considered as “energized,” regardless of LO/TO actions, and “on or near” electrical safety measures shall be exercised. Appropriate safety precautions to minimize the hazards of “energized” disconnected neutral conductors shall be listed in the project specific HA.

E. Excavation/Penetration.

1. The Company will provide the Seller with an excavation/penetration permit, as applicable, prior to the excavation/penetration of surfaces in order to identify the Company utilities and other subsurface company infrastructure. Refer to Specification 010100 "General Work Requirements." The Company shall utilize TN One Call services in accordance with state law to manage protection of non-company utilities at ORNL. Protect underground or subsurface installations from damage or displacement. The excavation permit and requirements to utilize TN One Call shall be referenced in the HA and be available at the work site.

F. Hazard communication.

1. Demonstrate compliance with a written hazard communication program as required by 29 CFR 1926.59, including employee information and training, provisions for labeling and availability of safety data sheets (SDS) as a section of the Seller S&H plan.
2. List all hazardous chemicals/materials brought on site on the form entitled "Contractor Hazardous Materials Inventory Report" (available via the Procurement web site) before starting on-site work. Provide to the TPO a copy of the MSDS for each chemical/material listed. Update the report monthly and provide a final inventory upon completion of work.
3. The Seller shall maintain the MSDS for hazardous chemicals brought onsite and shall supply information regarding hazardous chemicals to the Company representative prior to initiation of activities that may potentially expose the Company personnel to a hazard at the job location.
4. The Seller shall remove all unused chemicals or materials brought to the site at the completion of the job.

G. Heat/Cold stress.

1. Personnel exposed to temperature extremes should be protected in accordance with the ACGIH guidelines by implementing appropriate engineering controls, work rest regimens, and/or PPE. Activities must be evaluated for variables such as air temperature, wind speed, humidity, clothing and/or PPE being worn, and acclimatization status of workers to determine if there is a threat of heat/cold stress. Appropriate work rest regimens are selected based on environmental and/or physiological monitoring.
2. Personnel shall receive proper training on the hazards of working in temperature extremes. The instruction should include signs and symptoms associated with heat/cold stress, appropriate controls to protect against these hazards, first aid measures, and other factors which may increase a worker's susceptibility to heat/cold injury (e.g., age, weight, consumption of alcohol, taking medications such as diuretics, infection, pre-existing medical conditions, etc.).

3. In hot environments, cool liquids shall be made available to workers and workers shall be encouraged to frequently drink small amounts, e.g., one cup every 15-20 minutes.
  4. Since prolonged exposure to cold air or to immersion in cold water, at temperatures well above freezing can lead to dangerous hypothermia, whole body protection must be provided. Personnel should be protected by proper clothing and implementing a work/warm-up schedule per the ACGIH guidelines.
- H. Hoisting and rigging.
1. General.
    - a. Perform hoisting and rigging activities in accordance with the DOE Hoisting and Rigging Standard (DOE-STD-1090-2011), and the applicable parts of 29 CFR 1910 Subpart N, 29 CFR 1926 Subparts H, N, and CC, and ASME B30 and B56 Series. Provide for review by the Company upon request, documents of certification that the Seller's hoisting and rigging equipment meets the requirements in these documents. If an inspection certificate expires while the equipment is on site, re-inspect the equipment and update the inspection certificate before continuing work activities. Remove fall protection equipment (harness, lanyard, hooks, self-retracting lifelines) from service when it is found with any damage or when subject to shock loading imposed during a fall arrest.
    - b. The Seller shall develop an HA content specifically for hoisting and rigging operations required for the work prior to performing activities.
    - c. Provide load-rating plates attached in a prominent location. When modifications or changes are made to lifting or hoisting equipment or when equipment is modified to permit lifting or hoisting, attach a new manufacturer's load rating plate. In lieu of a manufacturer's load rating plate, a certification that the equipment has safely undergone a performance test of at least 125% of the maximum anticipated load may be furnished. This load rating shall then be affixed to the equipment.
    - d. The Seller's hoisting and rigging equipment/devices may be inspected by the Company with the right to suspend operations if found deficient or unsafe.
    - e. Cranes, boom trucks, and other types of hoisting equipment which do not have an anti-two-blocking device shall be equipped with a warning feature sufficient to alert the operator before the cable hook assembly is drawn into the top pulley, e.g., cable coating, cable wrapping, alarm device, etc.
    - f. The use of forklifts, backhoes, and track-hoes for hoisting or rigging activities is not permitted unless the manufacturer's written

documentation specifies the equipment is designed for that purpose and lifting limits are properly identified.

- g. Do not operate forklifts within 10' of any electrical lines without the Company approval. Contact the Company's TPO for a determination of safety requirements to conduct forklift operations that must be performed within 10' of electrical lines.
2. Operator qualifications.
- a. Equipment operators and riggers, including alternates, shall be qualified to perform their assigned functions. Qualifications shall include physical, knowledge, and skills proficiency based on job function.
  - b. The Seller, or their lower tier subcontractor, shall maintain a program for evaluating crane operators which meets 29 CFR 1926 Subpart C.
3. Ordinary, critical, and pre-engineered lifts.
- a. Ordinary lifts less than 5000 pounds (lbs.).
    - 1) The Seller is responsible for ensuring that all lifting meets the requirements of the regulatory documents noted in this section.
  - b. Ordinary lifts above 5000 lbs.
    - 1) The Seller shall require an appropriate review and approval by the Seller's field supervisor and hoisting and rigging supervisor in a documented "lift planning" or equivalent format. An example of a lift planning document is available on the Procurement web site.
  - c. Critical lifts.
    - 1) A lift shall be designated as a critical lift if the requirements applicable for ordinary lifts do not adequately eliminate or control the likelihood or severity of the following:
      - a) Personnel injury or significant adverse health impact (on site or off site).
      - b) Significant release of radioactivity or other hazardous material or other undesirable conditions.
      - c) Undetectable damage that would jeopardize future operations or the safety of a facility.
      - d) Damage that would result in delay to schedule or other significant program impact such as loss of vital data.
      - e) The use of two or more cranes or forklifts or special hoisting/rigging equipment.

- f) If the lift exceeds 75% capacity of crane (steel erection only).

NOTE: A lift could also be designated as critical if the load requires exceptional care in handling because of size, weight, close-tolerance installation, high susceptibility to damage, or other unusual factors.

- 2) The Seller shall submit a critical lift plan, using the Critical Lift Plan form (available on the Procurement web site), to the Company for approval. The plan shall be submitted at least 10 days in advance of the scheduled lift. The lift shall not be made until approval in writing from the Company is received.

- a) Include a layout sketch of the crane set up plan that includes the planned and maximum operating radii for the lift. Also show the item to be lifted.

NOTE: Show set up plans for other lifting machinery [e.g. forklift] if not using a crane.

- b) Include proof load tests for slings, shackles, and hooks used for the hoisting and rigging activities. The same components that were tested must be used for the critical lifting activities.

- 3) **The Seller shall conduct a pre-lift meeting prior to making the lift.** The Company TPO (or designee) and all the Seller personnel involved in the lift shall attend.

I. Lockout/Tagout (LO/TO).

- 1. Hazardous energy sources (electrical, mechanical, etc.) that are present at the work site must be de-energized and locked out before the Seller can begin work involving these hazardous energy sources. The Seller prepared HA shall include identification of hazardous energy sources, methods for performing LO/TO, and a sufficiently detailed LO/TO implementation plan addressing how the Company (if applicable to the work) and all tiers of subcontractors will perform LO/TO on the project in order to ensure a clear understanding of LO/TO coordination between all parties (e.g., will all sub-tier subcontractors use the prime subcontractor's locks and tags; or will each sub-tier use their own style of locks and tags; etc.)?
- 2. The Company will perform a LO/TO of applicable company-controlled systems and equipment. The Seller must provide at least 5 calendar days advance notice to the Company field representative of systems requiring LO/TO.
- 3. For work in existing ORNL facilities, the Seller's work may not proceed until the Company has conducted a coordination briefing with the Seller to facilitate

integration between the Company and the Seller LO/TO activities (including determination of the Company versus the Seller control of applicable systems and equipment).

4. Following any applicable isolation and LO/TO by the Company, a representative of the Seller shall review and approve the protection provided. In cases where the Company LO/TO permit is issued, the Seller's representative shall indicate this approval by signing the permit as the "Service Supervisor." The Seller employees shall verify isolation, and over-lock isolation points (or a lockbox) with their personal locks. These locks shall be identified with the Seller employee's name and a unique employee identification number. The Seller shall, as necessary, provide sub-tier authorized and/or affected employees with a pre-job briefing (approximately one hour). The briefing will cover the scope of work to be performed, the method(s) of energy isolation, and the method(s) for verifying isolation and safe energy conditions.
5. Upon completion of work, the Seller employees shall remove all personal locks and notify the Company's TPO. The removal of the Company's lock(s) shall not precede the removal of the Seller's lock(s) except in emergency conditions approved by the ORNL Laboratory Shift Superintendent (LSS).
  - a. Unforeseen circumstances may require the Company to temporarily suspend the LO/TO and have the Seller to remove the over-lock. If the temporary suspension occurs during the Seller's off-shift hours, the Company's LSS will contact the Seller for removal of the over-lock. If the Seller cannot be contacted, the LSS will remove the Seller's LO/TO or over-lock device and inform the Seller prior to start of the Seller's next work shift.
6. Hazardous energy sources introduced by the Seller must be controlled through the use of the Seller's hazardous energy control procedure contained in the Seller's S&H Program. The Seller shall also provide sub-tier authorized and/or affected employees with a pre-job briefing (approximately one hour). The briefing will cover the scope of work to be performed, the method(s) of energy isolation, and the method(s) for verifying isolation and safe energy conditions.

J. Noise/Hearing protection.

1. When employees are exposed to sound levels exceeding those specified by the ACGIH, "Threshold Limit Values and Biological Exposure Indices," feasible administrative or engineering controls shall be utilized. If such controls fail to reduce sound levels within those specified by the ACGIH, PPE shall be provided and used to reduce the sound levels.

NOTE: The more stringent ACGIH criteria are used instead of the OSHA criteria presented in 29 CFR 1926.52.

K. Respiratory protection requirements.

1. The Seller personnel are required to follow all OSHA (29 CFR 1926.103) requirements for respirator use.
  2. The Seller personnel will determine which respirator type or class will offer adequate protection based on:
    - a. Respiratory hazard(s) to which the worker may be exposed.
    - b. Workplace and user factors that have the potential to affect respirator performance and reliability.
    - c. His or her informed professional judgment.
    - d. Scientific literature.
  3. Temporary storage of respirators for reuse shall be in accordance with 29 CFR 1926.103(h) (2).
- L. Welding, cutting and hot-work requirements.
1. The Seller shall have a permit system addressing S&H and fire prevention for the following applications when work is conducted in a non-designated area; welding and allied processes, grinding, heat treating, thawing pipes with a torch or flame, torch-applied roofing, powder driven fasteners, hot riveting, and similar applications producing a spark or flame. Designated areas are permanent locations designed or approved for hot work operations to be performed regularly. Examples of hot work permits are contained in NFPA 51B.
  2. All hot work operations shall be coordinated with the Company to ensure protection of surrounding work areas and avoid accidental trips of fire protection alarms.
  3. Welders and burners shall wear protective clothing which meets requirements of ANSI Z49.1. The selected clothing shall be specified in the Seller's HA for hot-work activities. Protective clothing requirements shall be determined and noted on each hot-work permit issued during this project. Fire watchers who may be exposed to the same hot-work hazards as the welders and burners shall also wear the selected protective clothing.
  4. If operations require welding/burning/hot-work where anti-contamination clothing is required, the Seller personnel shall wear flame-resistant clothing for all layers. Flame resistant clothing shall meet the requirements of NFPA 701. Fire watchers who may be exposed to the same hot-work hazards as the welders and burners shall also wear the selected protective clothing.
  5. A fire watch must be designated if any of the following conditions exist:
    - a. A significant amount of combustible material is closer than 35' to the point of operations.
    - b. A significant amount of combustible material is more than 35' away but could be easily ignited by sparks.



- c. Hot work is conducted in areas where the employee must wear multiple layers of clothing and respiratory protection.
6. The fire watch shall be instructed to:
- a. Remain present in direct line of sight to the work area and perform no other activities other than fire watch duties.
  - b. Be alert for any condition that could lead to a fire.
  - c. Guard passers-by from welding hazards.
  - d. Interrupt the work when a hazardous condition develops and deal with the situation appropriately.
  - e. Ensure that appropriate fire extinguishing equipment is readily available and know how the equipment is to be used.
  - f. Remain on the scene for at least 1 hour after completion of hot work to detect and report a fire resulting from stored heat.

#### 1.6 ADDITIONAL SAFETY REQUIREMENTS

- A. Explosives (other than powder-actuated tools) are prohibited.
- B. The Seller shall not obstruct fire protection equipment, including fire extinguishers and sprinkler systems.
- C. Warnings or indications of impending severe weather conditions (heavy rains, strong winds, tornadoes, floods, etc.) shall be monitored and appropriate precautions taken to protect personnel and property from the effects of the severe weather.

#### 1.7 OCCUPATIONAL HEALTH PROTECTION THRESHOLD EXPOSURE LIMITS

- A. Exposure to any chemical or physical agent via inhalation, ingestion, skin absorption, or physical contact in excess of the acceptable limits specified in 29 CFR 1926, Subpart Z and/or the ACGIH “Threshold Limit Values and Biological Exposure Indices” shall be prohibited. In the event of conflicts between ACGIH and OSHA criteria, the more stringent shall prevail.
- B. The Seller shall be responsible for all monitoring to ensure compliance with the exposure criteria. Approved and calibrated testing devices shall be provided for the measurement of hazardous substances, agents, or environments. Individuals performing testing and monitoring shall be trained in testing and monitoring procedures and hazards. Testing devices shall be used, inspected, and maintained in accordance with the manufacturer’s instructions.
- C. Determination of the concentrations of, and hazards from, hazardous substances, agents, and environments shall be made by a qualified industrial hygienist or other competent person

during initial startup and as frequently as necessary to ensure the safety and health of the work environment.

- D. The Seller shall submit a completed Subcontractor Silica Sampling Report Form (Addendum 2 for and associated instructions) at project closeout.

#### 1.8 EMERGENCY SERVICES AND EQUIPMENT

- A. The Seller shall make provisions prior to commencement of the project for prompt medical attention in case of serious injury. If professional medical attention is not available within a reasonable time, the Seller is required to have a person trained in first aid at the work site and have the necessary first aid supplies. The OSHA regulations do not set specific response time requirements for the term “reasonable time.” However, OSHA’s interpretation is that in areas where accidents resulting in suffocation, severe bleeding, or other life threatening or permanently disabling injury or illness are likely, a three to four-minute response time, from time of injury to time of administering first aid, is required. In other circumstances, i.e., where a life threatening or permanently disabling injury is an unlikely outcome of an accident, a longer response time, such as 15 minutes, is acceptable.
- B. Proper equipment for prompt transportation of the injured person to a physician or hospital, or a communication system for contacting necessary ambulance service shall be provided by the Seller.
- C. If a serious or life-threatening injury occurs, the Company will provide emergency ambulance and firefighting services. The Seller employees must use the Company facility phone to dial 911 or pull a fire alarm box to notify the Company for emergency response. **If using a cell phone, the Seller must call the LSS at 574-6606.**
- D. The ORNL Health Division will attend any serious life-threatening injury to the level of stabilization. After stabilization, the Seller employee should be transported to the emergency facility of their choice.
- E. The Company will provide firefighting services. The Seller employees must use the Company facility phone to dial 911 or pull a fire alarm box to notify the Company for emergency response. **If using a cell phone, the Seller must call the LSS at 574-6606.**

#### 1.9 EMERGENCY PREPAREDNESS AND RESPONSE

- A. Observe and participate in notices to evacuate the work area, unless an alternate arrangement has been previously made and approved by the TPO. The evacuation notices may be a drill or actual event.
- B. The Seller shall appoint a person to ensure that all the Seller employees are aware of an evacuation alert.
- C. Evacuate to the assembly point identified in the HA.
- D. Before evacuating the work, areas shut down or make safe equipment or processes that could become a safety or fire hazard if left unattended.

## 1.10 EQUIPMENT AND MACHINERY

- A. The Seller employees shall be trained in the operation, inspection, and maintenance of the equipment; and the safety features and procedures to be utilized during operation, inspection, and maintenance of the equipment.
- B. Before any machinery or mechanized equipment is placed in use, it shall be inspected and tested by a competent person and certified to be in safe operating condition. Inspections and tests shall be in accordance with manufacturer's recommendations and shall be documented. Records of tests and inspections shall be maintained by the Seller and shall be made available upon request.
- C. All machinery and equipment shall be inspected daily (when in use) to ensure safe operating conditions. The Seller shall designate competent persons to conduct the daily inspections and tests.
- D. Whenever any machinery or equipment is found to be unsafe, or whenever a deficiency that affects the safe operation of equipment is observed, the equipment shall be immediately taken out of service and its use prohibited until unsafe conditions have been corrected. A tag indicating that the equipment shall not be operated, and that the tag shall not be removed, shall be placed in a conspicuous location on the equipment.
- E. Only designated qualified personnel shall operate machinery and mechanized equipment. Machinery and equipment shall not be operated in a manner that will endanger persons or property nor shall the safe operating speeds or loads be exceeded. Utilize equipment only for the purpose for which it was designed and in accordance with the manufacturer's instruction and recommendations. Modifications, extensions, replacement parts, or repairs of equipment shall maintain at least the same factor of safety as the original equipment. The manufacturer shall authorize modifications in writing.

## PART 2 - EXECUTION

### 2.1 PREPARATION

- A. Before starting on-site work provide the following:
  - 1. Notify the Company in advance of all scheduled on-site activities.
  - 2. Notify the TPO of any of the Seller employees receiving radiopharmaceutical treatment.
  - 3. Notify the Company of employees who are "Declared Pregnant Workers."
  - 4. Brief everyone entering the work-site boundaries on identified hazards, control measures, and proper work practices. Maintain documentation of this briefing by signature on HA Log Sheet.

### 2.2 PROTECTION OF WORK AREA

- A. Ensure that the work areas and storage areas are conspicuously flagged and barricaded, as needed, prior to initiation of work.
- B. Furnish, post, erect, and install safety devices, equipment, signs, barricades, flagging, and any other item necessary to give adequate warning and caution of hazards, and to provide instructions and directions to workers and the public. Signs identifying the Seller shall be posted for the work area and storage areas.

### 2.3 WORKING AND STORAGE AREAS

- A. Limit activities and storage to the immediate project site and designated storage areas. Limit travel to the main roads.
- B. Store only work-related material and equipment in stockpile areas, storage trailers, and designated storage sites located on government-controlled land.
- C. Perform cleanup, trash disposal, and neatly arrange material/equipment on a daily basis.

**END OF SECTION**

**SECTION 01 11 00**  
**ADDENDUM 1**  
**FUNCTIONAL AREAS**

This section describes the key functional areas addressed in 10 CFR Part 851, OSHA S&H regulations, applicable consensus standards, and best management practices. This section also includes programmatic areas not specifically regulated (e.g., ergonomics, indoor air quality), but are prudent and necessary for inclusion so that the associated hazards are recognized, evaluated, and appropriate controls applied for assurance of worker safety and health [refer to 10 CFR Part 851.12(b)].

**1.1 GENERAL SAFETY**

The application of a graded approach shall be used, based on the magnitude of the hazard(s) that can influence the worker's safety and health. The magnitude of the hazard impacts the application of the graded approach by influencing the selection of appropriate control measures to mitigate the hazard. Therefore, the following information represents a summary of hazards that may exist on Company projects, but it is not all inclusive. It is the Seller's responsibility to properly pre-plan the work activities and implement a system for hazard identification and control to both identify and control those hazards that may affect worker safety and health.

A comprehensive project-specific safety and health plan shall be developed in accordance with applicable OSHA (29 CFR 1910 and 1926) and DOE (10 CFR 851) requirements.

**A. Accident Prevention Signs, Tags, Labels, and Barricades**

Signs shall be properly colored and labeled in accordance with OSHA 29 CFR 1926, Subpart G, OSHA 29 CFR 1910.145 (a)(2) and ANSI Z53.1. Signs shall be promptly removed when no longer needed. Signs shall also be conspicuously placed to identify the hazard. In addition to signs, the types of barricades used on Company projects may include rope, tape, chain, or physical barricades (guardrails, concrete barriers, etc.). If hazard information is not printed on barricades or barriers, then signs or tags shall be used to describe the hazard and augment the barricades/barriers. Stepping over or ducking under barricades is prohibited. Barricades shall be maintained at all times while in use, reviewed for adequacy as conditions change, and promptly removed when no longer needed.

**B. Personal Protective Equipment**

Protective equipment shall be provided, used, and maintained in accordance with OSHA 29 CFR 1910, Subpart I, Personal Protective Equipment, and 29 CFR 1926, Subpart E, Personal Protective and Life Saving Equipment (as applicable). Seller's Supervisors, in consultation with the Seller's Project S&H Representative, shall assess the workplace to determine if hazards are present, or are likely to be present, which necessitate the use of PPE. If such hazards are present, or likely to be present, the Supervisor shall have affected workers use the types of PPE that will protect them from the hazards identified in the hazard analysis. Engineering, administrative controls, and work practices shall be used in conjunction with PPE to reduce and maintain worker exposure to as low as reasonably achievable (ALARA). Each worker who is required to use PPE shall

be trained per OSHA requirements. PPE shall be used and maintained in accordance with the manufacturers' instruction/requirements.

### C. Severe Weather

Due to the nature of the scope of work being conducted at ORNL, workers may be potentially exposed to adverse weather conditions. Work activities that may be affected by adverse weather conditions shall be evaluated by the Seller's Supervisor and Project S&H personnel to determine the impact of the weather on workers. Adverse weather conditions may include (but are not limited to) high wind, extreme heat or cold, severe thunderstorms and snow/sleet/ice accumulation. Severe weather requirements shall be incorporated in the S&H Plan. Outside work will not be conducted during the following weather conditions:

1. Lightning storms – Outside work shall cease when lightning is in the area. Verification may either be by visual verification or by notification from the LSS or another reliable source.
2. Work may resume 30 minutes after the last visible lightning in the area.
3. Tornado warnings – If a tornado is sighted, the LSS will make an announcement over the Public Address system to warn of the hazardous condition. Outside workers shall be instructed to cease activities and take shelter in a sturdy nearby building until further notice.
4. High Winds – The outdoor (unprotected) use of ladders, aerial devices, and other equipment which could be impacted by high winds must cease when winds meet or exceed the following:

*Note: Approval must be obtained from the Company TPO prior to same-day restart after high wind suspension of activities:*

- a. 25 mph for sustained winds
- b. 35 mph for gusts
- c. Equipment manufacturer's recommendations as stated in operator's manual.

### D. Slip, Trip, and Fall Hazards

Roadways, access ways, aisles, stairways, scaffolds, and ladders shall be kept clean and clear of hoses, extension cords, welding leads, and other obstructions that may cause tripping or other accident hazards. Slipping hazards, such as grease, oil, water, ice, snow, or other liquids shall be cleaned up or eliminated on walkways, ladders, scaffolds, or other access ways or work areas. If slipping and/or tripping hazards cannot be completely eliminated, the area shall be barricaded and posted with applicable hazard postings. Access to facility exits shall be maintained clear at all times. Trash/debris shall be containerized and removed as soon as possible or by the end of the work shift.

### E. Working on or Near Water (RESERVED)

## 1.2 CONSTRUCTION SAFETY

The Seller shall develop a comprehensive Occupational Safety Program that establishes roles, responsibilities, and expectations for worker safety through the implementation of industrial and construction safety requirements contained in the applicable OSHA standards. Seller shall also implement the applicable requirements of 10 CFR 851, specifically the requirements found in Section 1, *Construction Safety*, of Appendix A. This includes:

1. The Seller shall prepare an HA for each definable activity and submit it to the Company TPO for approval prior to the commencement of affected work.
2. The Seller shall prepare a written construction project S&H Plan and submit it to the Company TPO for approval prior to the commencement of any work activity covered by the plan.

The Seller shall also perform the following:

- Establish and maintain company-level policies, procedures, safety, and health related Subcontract *Pro Forma*, and management systems;
- Ensure that work-related injuries and illnesses are reported accurately and consistently with DOE Manual 231.1-1A, *Environment, Safety and Health Reporting Manual*, and OSHA 29 CFR 1904, *Recording and Reporting Occupational Injuries and Illness*;
- Be responsible for reporting and investigating accidents, injuries, and illnesses, and analyzing related data for trends and lessons learned (reference DOE Order 225.1A, *Accident Investigations*).

#### **A. Compressed Gas Cylinders**

Compressed gas cylinders shall be handled, used, stored, and transported, in accordance with applicable OSHA 29 CFR 1910, Subparts H and Q, 29 CFR 1926, Subpart J, Compressed Gas Association Pamphlet P-1, *Safe Handling of Compressed Gases in Containers* and NFPA 55, *Standard for the Storage, Use, and Handling of Compressed Gases and Cryogenic Fluids in Portable and Stationary Containers, Cylinders, and Tanks*. Workers handling compressed gas cylinders shall receive specific training in the safe handling, use, storage, and transport of compressed gas cylinders. An HA shall be developed and submitted to the Company prior to any handling and use of compressed gas cylinders.

#### **B. Dust Control**

During activities requiring dust control, water spraying, or other authorized methods shall be used to suppress dust emissions to the lowest practicable level. Dust control is required to reduce the airborne release of potentially hazardous contaminants to as low as reasonably achievable. Depending on specific work area conditions and restrictions, various types of equipment may be used for dust suppression efforts (ranging from water spray tank trucks to handheld garden hoses or garden sprayers). Excessive runoff due to dust control operations is not permitted. Excessive visible emissions of particulate are not permitted. If planned activities involve disturbing known or suspected contaminated soils, the Company TPO shall be consulted concerning dust suppression in these areas.

### C. Elevated Work/Fall Protection

All personnel who perform elevated work shall at a minimum comply with the applicable requirements of OSHA Standards 29 CFR 1910, Subpart D and F, and 29 CFR 1926, Subparts L and M. Elevated work/fall prevention requirements apply to the use of ladders, scaffolds, stationary work platforms, telescoping scaffolds, vehicle-mounted elevating and rotating work platforms, and other miscellaneous equipment used in reaching and working at elevated heights. Fall protection requirements also apply to roofs, unguarded platforms, floors, or decks, floor and wall openings, ramps, hoist areas, pits, and shafts with a potential straight fall of six feet or greater or when working at any height over hazardous equipment. Fall protection shall also be implemented when working on unprotected scaffolding and ladders at working heights of six feet (6') or greater, which includes the erection and dismantling of scaffolds. When fall protection justifiably creates a greater hazard, the Seller shall submit a written alternate method for the Company's concurrence prior to performing work that requires fall protection, which has been signed by an individual who has both completed a "Fall Protection Competent Person" training course which meets or exceeds the ANSI Z359 requirements and walked down the job task. A fall protection plan will also be required prior to performing work that requires fall protection, if the Seller's employees cannot tie-off at or above shoulder height when using a personal fall arrest system or when the Seller's fall arrest equipment cannot maintain arresting forces to less than 900 lbs. on the worker's body in the event of a fall, such as when a worker with tools/equipment exceeds 310 lbs.

When working at heights, the Seller must implement a strategy that first looks at eliminating the fall hazard through procedural or engineering methods and then determines if passive fall protection is appropriate (e.g. guardrails). Safety nets would be the next option since they require no active participation from the workers. If a graded-approach determines these options not to be feasible, a personal fall arrest system (PFAS) may be used.

Custom-made lifelines and other custom-made anchorages shall be designed by a Fall Protection Qualified Person (typically a structural engineer with knowledge of fall protection systems). Prior to the use of custom-made lifelines and anchorages, the design must be signed and stamped, if applicable, by the Seller's qualified person and submitted to the Company TPO for review at least 5 days in advance.

The Seller is responsible for ensuring all personnel who might be exposed to fall hazards have documented training in compliance with 29 CFR 1926.503. The training documentation shall be included in the Training Matrix, kept at the jobsite, and made available to the Company for inspection upon request. The Seller's fall protection competent person shall perform a documented inspection of all personal fall arrest equipment, including anchorage connectors, every six months. The Seller shall maintain the initial and 6-month inspection documents at the jobsite and make the records available to the Company for inspection upon request.

The fall protection competent person shall immediately tag all unserviceable fall protection with a dated and signed red 'Danger' tag. The fall protection competent person shall ensure fall protection equipment that fails inspection is physically segregated from the equipment which is in service and is removed from the project site prior to the end of the work shift.

While OSHA does allow use of a body belt for operators of aerial devices, the Company requires the use of a full body harness when accessing all aerial devices.



**D. Excavation, Trenching, and Penetrations**

Refer to Specification 011100 for requirements.

**E. Hoisting and Rigging Operations**

Refer to Specification 011100 for requirements.

**F. Heavy Equipment and Vehicle Operation**

All equipment and vehicle operations shall be in compliance with applicable federal, state, and local requirements including the following:

1. Personnel shall not mount or dismount moving vehicles or equipment. Personnel shall not ride in the bed of pickup or flatbed trucks. Vehicles used to transport personnel shall have the seats firmly secured and adequate seating for the number of workers to be carried. The use of seat belts is mandatory when operating or riding in vehicles or equipment.
2. All heavy equipment shall have current inspection certifications prior to commencing work. Inspection certifications shall be maintained at the work site for the duration of the project.
3. When parked, equipment-parking brake shall be set, and blades or buckets lowered to the ground.
4. The Seller shall comply with the requirements of DOE-STD-1090-2007; Hoisting and Rigging Standard and 29 CFR 1926, subparts N and O.

**G. Hot Work**

Refer to Specification 011100 for requirements.

**H. Ladder Safety**

All work requiring the use of a ladder (portable or fixed or ladder stands) shall, at a minimum, be performed in compliance with OSHA 29 CFR 1910, Subpart D, and 29 CFR 1926, Subpart X, as applicable. The Seller is responsible for inspecting portable ladders for any damage and their suitability (e.g. height, reach, material type, etc.) for the planned work task. Ladders shall be inspected daily, prior to use. If a ladder is damaged, the Seller shall affix a signed and dated red danger tag to the ladder, physically separate the ladder from other equipment being used, and remove the ladder from the project site at the end of the work shift. A ladder inspection shall be performed by someone other than the user at least every six months. This inspection(s) shall be documented, signed, dated, and maintained in the job site files and made available to the Company for inspection upon request.

Ladders users shall follow these general safety rules for all ladders:

1. Ladders are to be used by only one person at a time.
2. Face the ladder when ascending/descending.
3. Do not place ladders on boxes or other unstable bases to obtain additional height.
4. When used in doorways or aisle ways, the area around the ladder shall be barricaded or guarded.
5. Never “walk” a ladder or shift or extend a ladder while it is occupied.
6. Use the “Belt Buckle Rule” – Keep your belt buckle between the side rails.
7. Keep both hands free when climbing a ladder.
8. Three-point contact (i.e. 2 hands/1 foot or 2 feet/1 hand) must be maintained when climbing up and down a ladder.
9. Do not use the top step for standing or stepping.
10. Do not straddle a ladder by using the rear bracing.
11. Single and extension ladders without safety feet shall be removed from service.
12. Single and extension ladders shall be tied off at the top and bottom for stability.
13. Single and extension ladders shall extend at least 3 feet above the landing with which they are in contact.
14. Follow all additional manufacturers’ instructions.

See Section C for fall protection requirements when using ladders.

**Note:** Under no circumstances may a fixed ladder be used where a “Do Not Use” sign, inspection “Reject” tag, or any other means that represents a physical barrier is posted or affixed to the ladder.

Any proposed use of a fixed ladder (e.g. those permanently attached to structures or a facility) must be coordinated with and approved by the Company TPO prior to use.

#### **I. Material Handling, Storage, Use, and Disposal [RESERVED]**

#### **J. Overhead Power and Communication Lines**

Project sites may have many overhead power and communication lines that could pose a hazard for the operation of heavy equipment such as cranes, forklifts, dump trucks (with bed raised) and aerial work platforms where the possibility of inadvertent contact may exist. Where work is required in proximity to electrical power lines, personnel shall comply with OSHA 29 CFR 1926, Subparts N and O, as applicable. The following is provided as general guidance:

1. A 10-ft minimum clearance between the lines and any part of the crane or other equipment shall be maintained from all lines that are 50 kV or below for unqualified electrical workers. For lines rated over 50 kV, the minimum clearance between the lines and equipment is 10 feet plus 0.4 inches for each kV over 50.
2. Measures shall be implemented to assure the operators of the affected equipment can maintain the required distances from the lines. Spotters, physical barriers, and/or distance markings shall be used, as necessary.
3. If the appropriate clearance cannot be maintained, the power lines shall be deenergized and grounded. Work requiring the control of sources of hazardous energy

shall follow the applicable OSHA and NFPA requirements, e.g. 29 CFR 1910.147, 1910.269, 1910.333 and NFPA 70E.

#### **K. Sanitation**

Potable drinking water and toilet facilities shall comply with OSHA 29 CFR 1910.141 and 29 CFR 1926.51 requirements. In addition to these requirements, single-use cup dispensers shall be provided adjacent to all portable drinking water dispensers. Water shall not be dipped from containers. Water dispensers shall be clearly identified as drinking water. Water dispensers in use shall be cleaned daily. Rest areas shall be kept clean, and trash shall be removed from these areas daily.

#### **L. Use of Hand and Power Tools**

General Tool Maintenance:

1. All tools shall be used, inspected, and maintained in accordance with the manufacturer's requirements/owner's manual and applicable OSHA standards including 29 CFR 1910, Subpart P, and 29 CFR 1926, Subpart I.
2. All tools shall be maintained in good condition and properly stored when not in use.
3. Tools shall not be altered, and they shall be used only for their intended purposes.
4. Tool guards shall not be removed from tools or altered in any way.
5. All tools shall be inspected by the user before each use, with special attention given to power cords (if so equipped). If a tool has been damaged, the tool shall be tagged defective, removed from service, and not used until properly repaired. Defective equipment shall be removed from the project site at the end of the work shift.
6. All electric power tools will be double insulated or be equipped with appropriate grounding.
7. Owners' manuals shall be available to personnel operating the tools and the operators shall be trained in the safe operation of the tool prior to use.
8. Power tools shall be equipped with constant pressure switches that will shut the tool off when the switch is released.
9. Workers using powder-actuated tools shall be trained/qualified and have on their person a card indicating such. The loads for powder-actuated tools shall be kept in a locked red box labeled "EXPLOSIVES," which shall be kept in a locked area with restricted access.
10. All bench-mounted and floor-mounted tools shall be secured against movement or displacement. Bench-mounted grinders shall be set up and operated in accordance with OSHA 29 CFR 1926.303.
11. Hand tools with cracked, splintered, or taped wooden handles shall not be used.
12. Use of cheater bars to increase leverage is not permitted.
13. Impact tools shall be free of mushroomed heads and cracks. Work benches and saw horses shall be provided as required to stabilize the material being worked on.
14. All cords, hoses, and leads shall be kept out of walkways. They shall either be suspended at least seven feet over walkways or positioned along the sides of walkways. Cords, hoses, and leads are not to be exposed to vehicle or equipment traffic unless

protected from damage. Cords, hoses, or leads shall not be attached to the guardrails of any type of aerial lift, scissors lift, or mobile scaffold.

15. Welding leads or electrical cords shall not be secured by a conductive material or run through doorways, manways, or other wall or floor openings unless protected from damage.

#### **M. Tagging of Defective Tools, Materials, or Equipment**

Defective tools, materials, and equipment shall not be used. Supervisor shall take defective tools, materials, and/or equipment out of service immediately by tagging, destroying, or removing them from the project site. Supervisor shall remove the tag only when the equipment has been properly repaired and is declared serviceable. General purpose “Danger – Do Not Operate” Accident Prevention tags, meeting the requirements of OSHA 29 CFR 1926, Subpart G, shall be used to tag defective equipment. Tags shall be dated and signed by the person tagging the equipment and shall also contain a brief description of the problem that requires the equipment, tools, or materials to be tagged.

### **1.3 FIRE PROTECTION**

#### **A. Fire Protection Program**

Fire protection for Seller work activities shall follow the requirements of OSHA 29 CFR 1910, Subpart L, and 29 CFR 1926, Subpart F, as applicable. In addition, remediation and demolition sites shall comply with NFPA 241, *Standard for Safeguarding Construction, Alteration and Demolition Operations*.

#### **B. Combustible Controls and Housekeeping Measures**

The Seller shall comply with the requirements of 29 CFR 1910, Subpart L and 29 CFR 1926, Subpart F. This includes conducting all work in a manner that minimizes the total quantity of combustible material at a facility and disposes of unnecessary combustible materials in a timely manner. In addition, remediation and demolition sites shall comply with NFPA 241, *Standard for Safeguarding Construction, Alteration, and Demolition Operations*. This includes proper disposal of unnecessary combustible materials at the end of each work shift.

#### **C. Combustible and Flammable Liquids**

Storage and use of flammable and combustible liquids shall be in conformance with NFPA 30, *Flammable and Combustible Liquids Code*, and OSHA 29 CFR 1910, Subpart L, and 29 CFR 1926, Subpart F, as applicable. Refueling of equipment and vehicles will take place outside of structures. Where this is not possible, such refueling shall be addressed by detailed Job Instructions or HA.

#### **D. Temporary Structures**

Refer to Specification 015000.

#### **E. Emergencies**

All workers engaged in Seller work activities shall be instructed in how to contact emergency services in the event of fire, medical, hazardous materials spills, or collapse emergencies. All workers shall comply with directions given by a member of emergency services.

#### **F. Fire Extinguishers**

Fire extinguishers located in buildings, trailers, or on equipment are to be inspected and maintained per 29 CFR 1926, Subpart F and NFPA 10. They are always to be kept unobstructed and clearly visible. Fire extinguishers are always to be maintained in a fully charged and operable condition and kept in their designated places when not in use. They are intended as a first line of defense to cope with incipient fires only. Where a fire has advanced beyond the incipient stage, it is expected that workers will evacuate the facility and notify emergency services. There is no expectation or requirement for a worker to use a fire extinguisher where he/she believes it is unsafe to do so.

### **1.4 EXPLOSIVES SAFETY (RESERVED)**

### **1.5 PRESSURE SAFETY**

Maintenance and inspection of pressurized equipment shall be conducted in accordance with manufacturer's instructions and their recommended schedule(s) for preventative maintenance. Refer to Section 1.2.A of this document for further requirements associated with the safe use of compressed gas cylinders. To provide for the safety of personnel during construction or maintenance activities that may involve the potential for exposure to hazardous energy sources (hydraulics, water, electrical, steam, stored energy and pneumatic), such equipment or systems shall be isolated, be locked out/tagged out and verified. Work requiring the control of sources of hazardous energy shall follow the applicable OSHA and NFPA requirements, e.g. 29 CFR 1910.147, 1910.269, 1910.333, CGA P-1 and NFPA 70E. Authorized and affected personnel will be trained in accordance with the above procedure.

### **1.6 FIREARMS SAFETY (RESERVED)**

### **1.7 INDUSTRIAL HYGIENE**

#### **A. Asbestos and Other Fibrous Materials**

Based on the widespread use of asbestos in insulation and other building materials, asbestos containing material (ACM) may be encountered during work activities. Asbestos is present in the demolition and disposition of items in this task order. Refer to 010100 Unusual Conditions and Attachment 3 – Facility Characterization Information for specific details.

Asbestos-containing materials (ACM) are removed under OSHA Class II work methods for this project unless materials are rendered friable during removal and/or demolition work methods. Friable ACM is defined as any material greater than one percent asbestos, as determined by PLM (Polarized Light Microscopy) analytical methods, that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure.

Seller shall segregate, bag, and label the ACM in compliance with Section 017419, Attachment 2; Master Waste Profile S-040 requirements. All ACM discovered during removal activities shall be segregated and disposed as ACM.

Additional guidance for demolition activities is located at the following NESHAP websites:

1. "Asbestos NESHAP Adequately Wet Guidance," (<http://www.epa.gov/region4/air/asbestos/awet.htm>), and
2. "Demolition Practices under the Asbestos NEHSAP," (<http://www.epa.gov/region4/air/asbestos/demolish.htm>)

The Seller shall perform post-abatement visual inspections to confirm that horizontal and vertical surfaces are free of residual dust and debris. The Company may perform visual inspections as well.

Training shall be included on the Training Matrix and copies of documentation maintained at the job site and made available to the Company TPO for inspection upon request.

The Company will issue: Asbestos Work Authorization (AWA). Seller shall request AWA from the Company at least 7 days prior to asbestos work activities per Specification 010100.

#### **B. Bloodborne Pathogens [RESERVED]**

#### **C. Chemical Safety Management**

Seller must comply with exposure monitoring requirements and exposure limits as defined in 29 CFR 1910 Subpart Z and the 2016 edition of the ACGIH BEI/TLV booklet. Seller shall conduct baseline exposure monitoring and submit monitoring results to the Company within 5 days of receipt of results.

Seller shall maintain hazardous material inventories and Safety Data Sheets (SDSs) in the ORNL Hazardous Materials Management Information System (HMMIS). The Seller shall establish representatives to be trained in the use of HMMIS and to manage Seller's chemical inventories in HMMIS. This is intended to establish site-wide consistency and accountability for all hazardous materials at ORNL in a single system.

#### **D. Chronic Beryllium Disease and Prevention**

Seller work with beryllium or beryllium contamination falls under ORNL's Chronic Beryllium Disease Program. The Seller is required to comply with requirements contained in 10 CFR 850 and task-specific Beryllium Exposure Prevention Plans (BEPP). Task specific plans shall be developed and coordinated with the Company as required.

The Seller is responsible for providing beryllium medical surveillance for Seller employees that complies with 10 CFR 850.

All personnel involved in beryllium work shall be trained, including successful completion of ORNL Beryllium Worker Training prior to commencing work.

The Seller is responsible for conducting area air and exposure monitoring and collection of surface samples for removable beryllium contamination on equipment, tools, materials, and facilities in accordance with the Seller's approved BEPP. Risk reduction methods shall be implemented as required to reduce exposure to airborne beryllium to below the DOE Action level (0.2  $\mu\text{g}/100\text{ cm}^2$ ) and to prevent the unintentional spread of removable beryllium contamination. The Seller shall submit the analytic results of all beryllium sampling (areas air, exposure, and wipe samples) to the Company TPO within 5 days of receipt.

The Seller shall demonstrate the effectiveness of equipment/materials decontamination by collection of a sufficient number of random samples to demonstrate with a 95% confidence level that mean removable beryllium surface contamination does not exceed the DOE release criteria limit of 0.2  $\mu\text{g}/100\text{ cm}^2$ . The Seller shall determine the appropriate sampling strategy to meet this requirement and submit it to the Company TPO for approval as part of the BEPP.

#### **E. Confined Space [RESERVED]**

#### **F. Ergonomics**

Recognized as a major contributor to workplace injuries and illnesses, prevention of ergonomic related hazards is a focus area for Seller work activities. The interaction of personnel with their working environment may present potential musculoskeletal hazards such as incorrect lifting of heavy loads, equipment vibrations, improper body positioning, negotiation of physical obstacles, and office computer workstations. Methods to identify and prevent work-related musculoskeletal disorders shall be developed and implemented by the Seller.

#### **G. Exposure Control and Documentation**

Exposure to any chemical or physical agent via inhalation, ingestion, skin absorption, or physical contact in excess of the lower acceptable limits specified in 29 CFR 1910, Subpart Z, 10 CFR 850 and/or the American Conference of Government Industrial Hygienists (ACGIH), "Threshold Limit Values and Biological Exposure Indices", is prohibited without adequate PPE. In the event of conflicts between ACGIH, DOE and OSHA criteria, the more stringent shall prevail. Recommended controls are implemented based on the following hierarchy: engineering controls (including substitution or elimination), administrative controls (work practices), and PPE to limit potentially hazardous exposures to acceptable levels.

The Seller shall assign a Project Certified Industrial Hygienist to be responsible for all monitoring to ensure compliance with the applicable OSHA, ACGIH and DOE exposure criteria. Approved and calibrated testing devices shall be provided for the measurement of hazardous substances, agents, or environments. Individuals performing testing and monitoring shall be trained in testing

and monitoring procedures and hazards. Testing devices shall be used, inspected, and maintained in accordance with the manufacturer's instructions.

Determination of the concentrations of, and hazards from, hazardous substances, agents, and environments shall be made by a qualified industrial hygienist or other competent person during initial startup and as frequently as necessary to ensure the safety and health of the work environment.

The Seller shall conduct baseline and periodic exposure monitoring in accordance with 10 CFR 851 requirements and provide monitoring results to the Company TPO within 5 days of receipt the results.

#### **H. H. Exposure Monitoring, Action Levels, and Laboratory Accreditation**

Real-time and integrated worker exposure monitoring shall be conducted for chemical substances and/or physical agents, such as noise, temperature extremes, etc., in which airborne concentrations could exceed the PEL/TLV. In addition, if worker(s) report symptoms attributable to a possible exposure or if an incident/release of a chemical nature occurs, appropriate sampling must be performed to document potential exposure levels. If direct reading instrumentation is not practical, grab samples may be obtained as close to the incident as possible. All monitoring results shall be provided to the Company within 5 days receipt.

A set of exposure action levels shall be established based on exposure limits mandated in federal and state regulations, standards, DOE Orders, and/or prudent industrial hygiene practices. Action levels are used to indicate the level of a harmful or toxic substance/activity, which may initiate medical surveillance, increased industrial hygiene monitoring, training, or biological monitoring. Unless specific action levels have been established by a regulation, standard or DOE Order, they shall be set at one half of the most stringent OSHA PEL or ACGIH Threshold Limit Value.

The upgrading/downgrading of PPE and implementation of engineering and/or administrative controls shall be based on exposure monitoring results. In addition, short term exposure limit sampling shall be performed as appropriate.

The Seller IH shall evaluate the potential health risk to workers by conducting initial/baseline and periodic surveys (i.e., evaluations) of work activities or operations with the potential for worker exposure. The Seller IH then determines the type, amount, and extent of IH sampling needed to meet regulatory requirements and adequately protect workers. IH exposure monitoring (i.e., personal sampling) shall be conducted under the direction of the Seller IH in accordance with the requirements of the OSHA Technical Manual, NIOSH 10 CFR Part 851 requirements, and other appropriate references. An initial/baseline survey (evaluation) shall be conducted where a worker's potential exposure could exceed the established TWA limits. Worker exposure is that exposure which could occur if the worker were not using PPE (respirator, hearing protection, etc.). This initial determination requires monitoring workers' work activities unless recent historical data (within 12 months) or objective data exists that can demonstrate conclusively that no worker will be exposed to chemical or physical hazards in excess of the established TWA limits. Objective sampling data may be compiled from various sources, e.g., exposure data collected from similar operations or previously collected sampling data (historical data) including area monitoring. Where objective or historical data is used in lieu of actual monitoring, accurate records documenting its relevancy in assessing exposure levels for current job conditions must be maintained.



If objective or historical data is available and concurrence is obtained from the Seller IH, further sampling for the specific job task is not required unless conditions change and/or workers report symptoms attributable to a potential exposure event, such as an incident or release.

If it cannot be determined by objective or historical data that a worker's exposure is less than the action level, monitoring must be performed. This monitoring may be limited to a representative number of workers who are reasonably expected to have the highest exposure levels. If representative air sampling has been conducted in the past 12 months, these results may be used, provided they are applicable to the same worker tasks and exposure conditions and meet the requirements for accuracy as specified in the relevant OSHA standards. Representative samples are defined as data from tasks that closely resemble current activities, materials, methods, and environmental conditions, and were performed by workers of similar experience and training to those performing the current work. As with objective data, if such results are relied upon for an exposure determination, a record must be established and maintained to the relevancy of such data to current job conditions.

If the initial determination shows that a reasonable possibility exists that a worker may be exposed, without regard to respirators or PPE, over the action level, a monitoring program must be established to determine the exposure level representative of each worker. Monitoring every worker is not required, but monitoring must be representative of the number of workers and job types. Enough sampling must be conducted to enable each worker's exposure level to be reasonably representative of each worker's full shift exposure. In addition, these samples must be taken under conditions that represent each worker's regular, daily exposure. Alternatively, representative sampling performed within the past 12 months may be used to determine the frequency and logistics of monitoring needed for the current work. The Seller IH shall determine the type, amount, and extent of IH sampling needed to meet regulatory requirements and adequately protect the worker based on their initial/baseline or periodic surveys (evaluations) of work operations. The Seller IH determines the need for exposure monitoring and control plans based on the health risk and the complexity of the work (i.e., a complex job involving numerous chemicals).

A laboratory accredited by the American Industrial Hygiene Association for the analytical parameter categories that are to be analyzed shall analyze all personal exposures or other industrial hygiene-related samples. All samples will be analyzed in accordance with the appropriate NIOSH or OSHA methodology or a method deemed equivalent by the laboratory. Monitoring results shall be reviewed with workers and written results provided in accordance with OSHA standards requiring written notification.

#### **I. Hazard Communication**

Refer to Specification 011100 for requirements.

#### **J. Hazardous Waste Operations and Emergency Response**

The applicability of HAZWOPER to defined scopes of work or activities is a determination made and documented by the Company. An operation falls under the scope of HAZWOPER if it meets all three of the following criteria:

1. The actual work site or location is a hazardous waste site as defined in OSHA 29 CFR 1910.120/29 CFR 1926.65.
2. The activity is one of the operations covered by the scope of OSHA 29 CFR 1910.120/29 CFR 1926.65.
3. The activity exposes or offers reasonable potential of exposing workers to safety or health hazards or hazardous wastes/substances resulting from the hazardous waste operations.

#### **K. Hearing Conservation**

The operation of equipment, particularly heavy equipment, can create areas where noise levels exceed 85 decibels on the “A” weighted scale (dBA). Exposure to excessive noise levels may lead to temporary or permanent hearing loss. Self-performed noise level monitoring and posting shall be performed in accordance with the program requirements found in 29 CFR 1910.95 Occupational Noise Exposure. Noise level monitoring results shall be submitted to the Company TPO within 5 days. Hearing protection shall be worn by task personnel where noise levels are suspected or shown to exceed 85 dBA. Areas where noise levels are greater than 85 dBA will be posted as “CAUTION: Noise Hazard Areas-Hearing Protection Required.” The Seller shall ensure compliance with posted warnings. Workers in areas or performing activities in which the 8-hour TWA exceeds 85 dBA as determined by noise dosimetry measurements will be included in a Hearing Conservation Program that includes (1) representative noise dosimetry/sound level surveys, (2) training, and (3) annual audiograms and review. Training shall be included in the Training Matrix, and training records shall be maintained at the jobsite and made available for Company inspection upon request.

#### **L. Toxic Metals Protection**

The Seller IH shall evaluate areas and establish requirements and actions needed to provide a safe working environment during activities that have been identified to contain the potential for airborne concentrations of toxic metals (e.g., lead, inorganic arsenic, cadmium, hexavalent chromium, mercury, nickel, uranium, etc.), at or above established action limits. OSHA mandates the development of Compliance Plans and programs for certain substance-specific toxic metals including inorganic arsenic, cadmium, and lead.

Inorganic arsenic is primarily found in chemically treated wood, and lead is primarily found in bricks and sheet used as shielding as well as painted surfaces (unless originally painted within the last 10 years, it should be suspected of containing lead). Each work activity that involves the potential for exposure to inorganic arsenic or lead shall be evaluated on a case-by-case basis. Appropriate controls and protective measures shall be specified in Job Instructions, compliance plans, as required, or other work control documentation developed for this activity. All activities involving inorganic arsenic and lead shall adhere to OSHA 29 CFR 1926.1118 for arsenic and 29 CFR 1926.62 for lead. Compliance plans are to be submitted prior to performing work involving toxic metals.

Occupational exposures to cadmium and cadmium compounds, in all forms, in construction work where a worker may potentially be exposed to cadmium shall be in accordance with OSHA 29 CFR 1926.1127, whereas hexavalent chromium is controlled in accordance with OSHA 29 CFR 1910.1026 and 29 CFR 1926.1126.

#### **M. Illumination**

Adequate illumination intensity shall be provided in all active work areas and access ways in accordance with OSHA 29 CFR 1926.26 and 29 CFR 1926.56. Emergency lighting, where required, shall be tested, and maintained in accordance with NFPA 101, *Life Safety Code*, and manufacturers' requirements.

#### **N. Air Quality**

Various factors such as inadequate ventilation, chemical contaminants, carbon dioxide levels, and microbiological organisms influence the quality of breathing air. Biological organisms such as molds, mildew, and other fungi, and spores can grow rapidly in moist and stagnant environments whereby microbial particles may become airborne. The Seller IH shall evaluate project areas and monitor as required. The Seller IH shall be consulted with any air quality concerns or issues and recommend appropriate PPE to mitigate breathing zone hazard(s).

#### **O. Reproductive Health Protection**

The Seller shall make every reasonable effort to protect both male and female workers from excessive exposure to reproductive hazards. Due to the sensitivity of the human reproductive system to the effects of chemical, biological, and physical agents, special precautions, such as engineering controls, product substitution, PPE, and administrative controls may be necessary to reduce worker exposure.

#### **P. Respiratory Protection**

Refer to Specification 011100 for requirements.

#### **Q. Temperature Extremes**

Refer to Specification 011100 for requirements.

### **1.8 BIOLOGICAL SAFETY**

This section of 10 CFR Part 851 is not applicable to this project.

### **1.9 OCCUPATIONAL MEDICINE**

Seller is responsible for providing occupational medical services to their workers in accordance with program requirements specified in 10 CFR Part 851, Appendix A, Section 8., *Occupational Medicine*, and as specified in the terms and conditions.

Seller is responsible for providing all regulatory required medical services (including physicals and biological monitoring) for their employees and maintaining appropriate records.

**A. Injuries and Illnesses**

All work-related injuries or illnesses, regardless of how minor, shall be promptly reported by the worker to their Supervisor, who will then complete form ORNL-124, Supervisor's Incident Report and fax to 241-4027. The Supervisor shall notify the Company TPO of the injury or illness as soon as possible. For any work-related injury or illness that is not reported prior to leaving the work site, the worker must notify their Supervisor as soon as possible, (who will then complete the same steps as above). If symptoms of a work-related injury or illness occur while away from work, then the worker shall immediately contact their Supervisor, who shall notify the Company TPO to report the change in condition. The reporting and notification process shall not interfere with or delay the receipt of medical attention. Requirements regarding injury and illness shall be included in the Seller's S&H Plan.

**B. Emergency Medical Services**

Any person with a serious injury or illness requiring emergency attention will be transported by emergency services to an offsite medical center for further evaluation and treatment. Emergency medical consultation/support related to radioactive contamination and/or radiation exposure with potential associated medical consequences is available through the Company.

**C. Biological Monitoring**

Biological monitoring provides a tool for assessing a worker's potential exposure to chemical substances and for determining the effectiveness of PPE and controls. Early integration of exposure assessment with work planning activities will identify potential exposures associated with specific chemical substances and biological monitoring during pre-task planning.

**D. Additional OSHA-specific Medical Monitoring Requirements**

Seller shall adhere to the medical monitoring requirements specified in DOE 10 CFR 851, OSHA 29 CFR 1910, Subpart Z, and OSHA 29 CFR 1926. There may be additional work practices that require implementation of the above referenced medical monitoring requirements.

**E. Audiometric Testing**

Seller employees who may be exposed to noise levels at or above 85 dBA as an 8-hour timeweighted average, without regard to hearing protection devices, are required to participate in an audiometric testing program that complies with the requirements in OSHA 29 CFR 1910.95 and a Hearing Conservation. The Seller's Hearing Conservation Program shall be made available to the Company TPO upon request.

**1.10 MOTOR VEHICLE SAFETY**

**A. Traffic Control**

Refer to Specification 015000 for requirements.

**B. Traffic Safety**

Personnel shall obey all traffic laws while operating vehicles at ORNL. Seller employees shall park in appropriate parking places. Seller may park company-owned vehicles at the location designated by the Company TPO. All privately owned vehicles must be parked in the existing ORNL parking areas. No vehicles shall be parked in a manner that obstructs walkways or creates a hazard by blocking site of traffic paths.

The following traffic safety requirements shall always be followed:

1. Ensure that all passengers are wearing seatbelts when vehicle is in motion.
2. Comply with all applicable city, county, state, federal, and site vehicle laws and regulations, including posted speed limits and other traffic signs.
3. Set emergency/parking brake when the vehicle is parked.
4. Do not leave vehicles unattended with the motor running. If the vehicle operator needs to exit the vehicle with the engine running to clean windows, perform diagnostics or maintenance, check fluids, or when the work being performed requires the vehicle engine to remain running, the operator shall: Remain in the immediate vicinity and in line of sight of the vehicle in order to alert people if the vehicle should begin to move, ensure that the automatic transmission gearshift lever is positioned positively in the "PARK" mode, set the emergency/parking brake, and take other appropriate precautions to ensure the vehicle will not move (such as chocking the rear wheels).
5. Ensure that all windows are clear of ice, snow, and fog before putting the vehicle in motion.
6. Give pedestrians the right of way at all times.
7. Promptly report motor vehicle accidents to supervision, who shall report to the LSS and the Company TPO.
8. Inspect vehicle prior to each use to ensure it meets minimum safety requirements, e.g. tires, wipers, directional signals, headlights, taillights, and brake lights. If the deficiency renders the vehicle unsafe to drive, take the vehicle out of service until repairs have been made.
9. Gas and electric cart operators are subject to the same traffic safety rules as motor vehicle operators.

**1.11 ELECTRICAL SAFETY**

Refer to Specification 011100 for requirements.

**1.12 NANOTECHNOLOGY SAFETY [RESERVED]****1.13 SCAFFOLDING**

A Seller scaffold competent person shall inspect scaffolding daily before use, approve initial use and inspect scaffolding following any occurrence that could affect structural integrity. The inspection shall be documented and attached to the scaffold in an obvious location. Inspections records shall be retained in the job-site office files and made available to the Company for inspection upon request.

Scaffold manufacturer's instructions for safe scaffold erection and use must be in the job-site office and available for employee reference. The Seller shall provide scaffold training which meets or exceeds the OSHA requirements. Training shall be documented and retained in the job-site office files and made available to the Company TPO upon request.

Scaffolds over 50 feet high must be pre-approved by the Company TPO. The Seller is required to have a written scaffold tagging program which requires the competent person to inspect and tag scaffolding daily prior to use; this program shall be submitted to the Company TPO for review at least 10 workdays prior to work activities requiring use of a scaffold. Three scaffold tags shall be used to address the following scaffold configurations:

1. Incomplete Scaffold – Requires 100% tie-off,
2. Complete Scaffold – Follow standard use procedures, and
3. Warning – Do Not Use.

Scaffold General Requirements:

1. Ensure working levels are fully planked.
2. Provide fall protection for employees erecting/dismantling scaffolds where there is exposure to falls from a height of 6 feet or more.
3. Provide scaffolds with guardrails, mid-rails, and toe boards.
4. Erect scaffolds on rigid, sound footings which are capable of carrying the intended load without displacement or settling.
5. Do not load scaffolds in excess of the working load for which they are intended.
6. Damaged scaffolds shall be repaired immediately and shall not be used until repairs are complete.
7. Provide an access ladder or stairs to access the scaffold.
8. Do not access scaffolds which are covered with ice or snow until it has been removed.
9. Do not allow tools, materials, and debris to accumulate on the scaffold.
10. Properly secure scaffolds to permanent structures.
11. Ensure protection is provided from falling objects by installing toe boards, screens, debris nets, etc.
12. Do not ride a rolling scaffold.
13. Do not toss items across or from the scaffold.
14. Do not work on scaffolds during storms or high winds.

For fall protection requirements, refer to Section 1.2.C.

#### **1.14 AERIAL LIFTS (EXTENSION BOOM LIFTS, BUCKET TRUCKS AND SCISSORS-TYPE LIFTS)**

A full body harness and lanyard shall be required while working from self-propelled, extension boom lifts and bucket trucks. For boom lifts and bucket trucks which are not designed to handle fall arrest forces, a restraint (e.g. 3 ft. lanyard) shall be utilized. Do not move aerial lifts when personnel are in the basket and the basket is elevated. All aerial lifts shall have both upper (platform/bucket) and lower controls. Lower controls shall be able to override the upper controls. The function of all controls shall be plainly marked and legible.

Aerial lifts shall not be used as a means of access/egress to other elevated work stations without prior approval from the Company TPO. When using aerial lifts for material handling, the load should always be evenly distributed on the platform area. Handrails shall not be utilized for lowering/raising material. Wheel chocks shall be used when working on an incline.

All aerial lifts are subject to inspection by the Company upon arrival on-site. Inspection may include, but not be limited to, the following: OSHA compliance, operator's manual present, damage that could render the device inoperable, and oil, hydraulic, or other fluid leaks. Inspection documentation shall be maintained at the jobsite and made available to the Company for inspection upon request. Equipment will be checked by the Company for radiological contamination prior to and after use. The Seller shall provide the Company TPO at least two working days' notice prior to bringing aerial lifts on-site. Aerial lifts shall be inspected daily, prior to use, by the lift operator. Aerial lift operators shall be trained on the types of lifts being used by the Seller. The training shall be documented, retained in the job-site files, included in the Training Matrix, and made available to the Company for inspection upon request.

**Note:** Tie-off is not required when working from scissors-type lift platforms where fall protection is provided by a top rail, mid-rail, and toe board and the worker maintains both feet on the platform floor.

#### **END OF SECTION 01 11 00 – ADDENDUM 1**

## Addendum 2

## Subcontractor Silica Sampling Report Form/Instructions



## SUBCONTRACTOR SILICA SAMPLING REPORT FORM

(This is a fill-able form – fields will expand as information is typed in. Form completion instructions on next page.)

PROJECT / TASK INFORMATION							
Sampling Date:		Sampling Location (Bldg./Area/Room):			Supervisor Name/Contact Info:		
Division/Group/Subcontractor:				Work Control Document:			
Job Title (Electrician, Laborer, etc.):				Sampling Survey No.:			
EQUIPMENT/TASK CATEGORY							
<input type="checkbox"/> Handheld/Stand-mounted Drill (Impact & rotary drills) <input type="checkbox"/> Large Handheld Power Saw (Any blade diameter) <input type="checkbox"/> Small Handheld Power Saw (Blade dia. less than 8-inches) <input type="checkbox"/> Handheld Grinder (For mortar removal i.e. tuckpointing) <input type="checkbox"/> Handheld Grinder (For other than mortar removal) <input type="checkbox"/> Stationary Masonry Saw <input type="checkbox"/> Jackhammers & Handheld Powered Chipping Tools <input type="checkbox"/> Walk-behind Cutting Saw <input type="checkbox"/> Walk-behind Milling Machines and Floor Grinder <input type="checkbox"/> Drivable Saw				<input type="checkbox"/> Rig-mounted Core Saw or Drill <input type="checkbox"/> Dowel Drilling Rig <input type="checkbox"/> Vehicle Mounted Drill Rig (for rocks and concrete) <input type="checkbox"/> Small Drivable Milling Machine (Less than half-lane) <input type="checkbox"/> Large Drivable Milling Machine (Half-lane or larger) <input type="checkbox"/> Crushing Machine <input type="checkbox"/> Heavy Equipment (Hoe-ram or other concrete demo) <input type="checkbox"/> Heavy Equipment (Grading/excavating, but no demo) <input type="checkbox"/> Mixing Mortar or Concrete <input type="checkbox"/> Other:			
Base Material		Work Surface Orientation		Quantities			
<input type="checkbox"/> Concrete <input type="checkbox"/> Bricks <input type="checkbox"/> Asphalt <input type="checkbox"/> Cinder Block <input type="checkbox"/> Sand <input type="checkbox"/> Mortar <input type="checkbox"/> Soil/Stone <input type="checkbox"/> Other:		<input type="checkbox"/> Horizontal <input type="checkbox"/> Vertical <input type="checkbox"/> Overhead <input type="checkbox"/> Ground <input type="checkbox"/> Other:		<input type="checkbox"/> Square ft.: _____ <input type="checkbox"/> Diameter: _____ <input type="checkbox"/> # of Holes: _____ <input type="checkbox"/> Depth: _____ <input type="checkbox"/> Length: _____ <input type="checkbox"/> Other: _____			
WEATHER/WORKPLACE INFORMATION							
Temperature	Time	Wind Speed	Time	<input type="checkbox"/> Indoors <input type="checkbox"/> Outdoors <input type="checkbox"/> Enclosure <input type="checkbox"/> Sunny <input type="checkbox"/> Cloudy <input type="checkbox"/> Overcast <input type="checkbox"/> Rainy <input type="checkbox"/> Sleet/Snow/Ice <input type="checkbox"/> Windy <input type="checkbox"/> Other Weather Considerations:			
ACTION PERFORMED							
<input type="checkbox"/> Drilling <input type="checkbox"/> Sanding <input type="checkbox"/> Cutting <input type="checkbox"/> Scabbling <input type="checkbox"/> Brushing <input type="checkbox"/> Sawing <input type="checkbox"/> Milling <input type="checkbox"/> Jack-hammering <input type="checkbox"/> Grinding <input type="checkbox"/> Demolition <input type="checkbox"/> Grading <input type="checkbox"/> Excavating <input type="checkbox"/> Tuckpointing <input type="checkbox"/> Other:							
ENGINEERING CONTROL(S) USED							
<input type="checkbox"/> Commercially available shroud or cowling <input type="checkbox"/> Dust collector recommended by manufacturer <input type="checkbox"/> Dust collector has 99% or greater efficiency <input type="checkbox"/> Integrated Water Delivery System (continuous feed) <input type="checkbox"/> HEPA Filtered Point Source				<input type="checkbox"/> Water Sprayer (continuous feed to point of contact) <input type="checkbox"/> Surfactant added to Water Delivery System <input type="checkbox"/> Operated and maintained to minimize dust emissions <input type="checkbox"/> Sealed Cab with MERV-16 Filter <input type="checkbox"/> Other:			
PERSONAL PROTECTIVE EQUIPMENT / ADMINISTRATIVE CONTROLS							
<input type="checkbox"/> Respirator: Type - _____; Cartridge - _____ <input type="checkbox"/> NA <input type="checkbox"/> Protective Clothing <input type="checkbox"/> Work Area Flagging <input type="checkbox"/> Enclosure <input type="checkbox"/> Negative Air Machine <input type="checkbox"/> Training <input type="checkbox"/> Other:							
ADDITIONAL INFORMATION							
Comments:							
SAMPLE INFORMATION							
Sample ID	Lab Result (ug)	Job Conc. mg/m3	8-hr TWA mg/m3	Sample ID	Lab Result (ug)	Job Conc. mg/m3	8-hr TWA mg/m3

# SUBCONTRACTOR SILICA SAMPLING REPORT FORM

## **FORM COMPLETION INSTRUCTIONS**

This form is to be completed for each respirable crystalline silica (RCS) sampling event, with one form completed per Equipment/Task Category sampled each day. If several tasks with different equipment/task categories are conducted and sampled on one day, a different form should be completed for each. Once the analytical exposure data is available, the completed forms shall be submitted to the Technical Project Officer who will submit them to the Safety Services Division RCS Subject Matter Expert.

## **PROJECT / TASK INFORMATION**

**Sampling Date:** Date the project was sampled.

**Sampling Location (Bldg/Area/Room):** Specify the location where the sampling occurred. If sampling will be of specific locations/items, attach photos/maps.

**Supervisor Name/Contact Info:** Name and phone number for Supervisor in charge of the task being conducted.

**Division/Group/Subcontractor:** Identify the Division, Group, or Subcontractor performing the work.

**Work Control Document #:** Name/Number of work control document under which the work/task is being performed.

**Job Title (Electrician, Laborer, etc.):** Job title of worker(s) performing the task and being sampled.

**Sampling Survey No.:** Include a unique survey number associated with the sampling to which this form applies.

## **EQUIPMENT/TASK CATEGORY**

Use Check Boxes to identify which Equipment/Task category the project falls into. The categories match the OSHA Table 1 Equipment/Task descriptions. If the task falls outside the categories in this section, define the task effectively in the "Other" fields or the Additional Information section.

**Base Material:** Use the check boxes to identify the material that will be impacted by the task.

**Work Surface Orientation:** Check the box(es) that correspond to the orientation of the work direction and location.

**Quantities:** Indicate pertinent data regarding the volume/amount of work performed during this task on this day.

## **WEATHER/WORKPLACE INFORMATION**

Indicate relevant weather conditions that would impact exposure potentials.

## **ACTION PERFORMED**

Use the actions listed to further refine the type of operation being conducted and sampled.

## **ENGINEERING CONTROL(S) USED**

Use the check boxes to specify the dust suppression method(s) used to mitigate visible dusts.

## **PERSONAL PROTECTIVE EQUIPMENT / ADMINISTRATIVE CONTROLS**

Check relevant boxes and list personal protective equipment and other administrative controls used.

## **ADDITIONAL INFORMATION**

## **SUBCONTRACTOR SILICA SAMPLING REPORT FORM**

Specify additional information regarding the task that is not covered elsewhere on the form.

### **SAMPLE INFORMATION**

Record the sample ID, lab result, job concentration, and 8-minute TWA for each sample collected on this day for the task described in the Equipment/Task Category.

## SECTION 01 50 00

### TEMPORARY FACILITIES AND SITE CONTROLS

#### PART 1 - GENERAL

##### 1.1 SUMMARY

- A. This section provides the requirements for temporary utilities, control of the project area, change facilities, and dust control.

##### 1.2 REFERENCES

- A. American National Standards Institute (ANSI) A225.1, Manufactured Home Installation.
- B. ANSI/NFPA 70, National Electrical Code (NEC).
- C. NFPA 501A, Manufactured Home Installation, Sites, and Communities.
- D. ANSI D 6.1, "Manual on Uniform Traffic Control Devices for Streets and Highways."

#### PART 2 - PRODUCTS

##### 2.1 MATERIALS – (One of the following will be selected.)

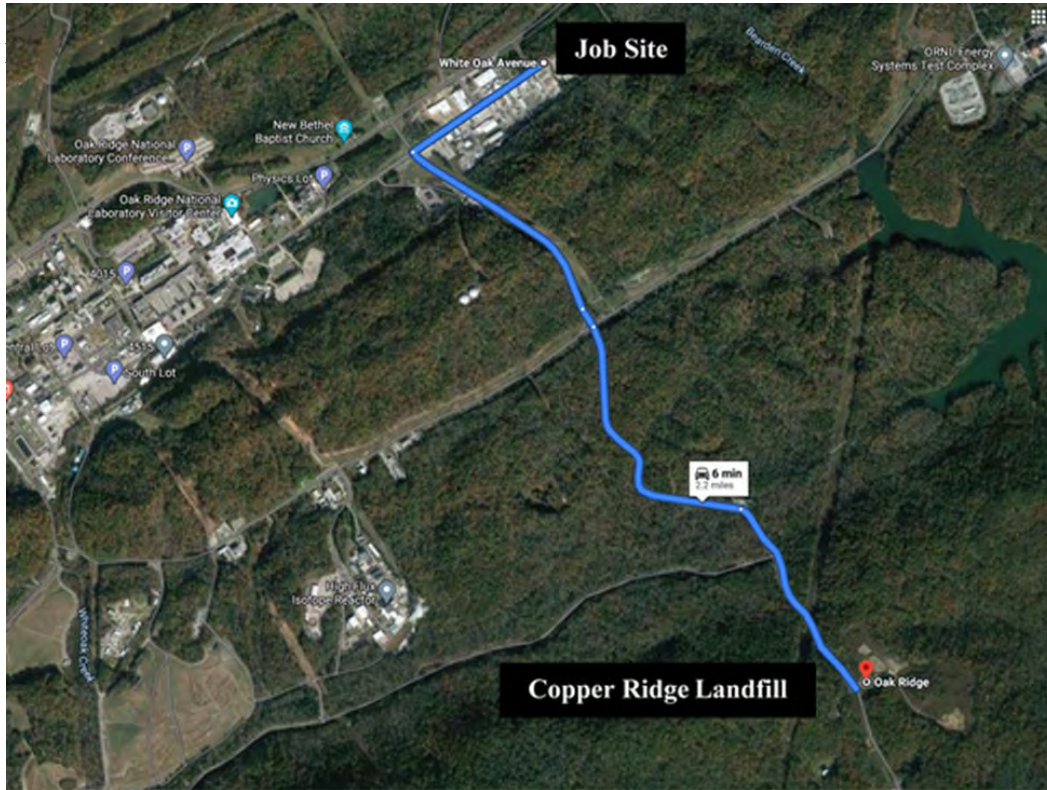
- A. Barrier Fence (Option 1): A 6-ft high chain link fencing with double gates as necessary shall be placed around the demolition site to secure demolition efforts. This fence shall be "temporary" and will not be easily movable nor affixed to the ground. Seller shall coordinate final locations, connections, and gates with the Company CFR prior to installation.
- B. Barrier Fence (Option 2): 48 in. high, orange plastic barrier fence, Vallen Safety Catalog No. FNC450 or equivalent. This fence shall be placed around the demolition site and shall have entry/exit locations that can be opened and secured). Seller shall coordinate the final locations and openings/gates with the Company prior to assembly/installation.

#### PART 3 - EXECUTION

##### 3.1 SPOILS AREA

- A. The Copper Ridge Spoil Area shall be used for disposal of all spoils generated at the project site as listed below, unless otherwise directed by the Company. The Copper Ridge Spoil Area, approximately 2 miles from the Job Site (See Figure 1), is an active area operated by the Company that receives excavated materials from the ORNL campus which consist of **only** the following materials:
  - 1. Clean soil (no radiation above normal background levels, no chemical contaminants above applicable cleanup levels)

2. Natural rock
3. Stumps
4. Concrete (can include rebar)
5. Brick rubble



ne above  
rom soil

*Figure 1. Route from Job Site to Copper Ridge Landfill*

- C. A meeting shall be held with the Company's Environmental Representative and the Seller prior to the start of the project to discuss erosion and sediment controls required at this spoil area and the particular area to place the project spoil materials. The Seller is expected to spread all materials they have hauled to site with a large dozer to compact the soil a minimum amount. The Seller is expected to maintain and address issues associated with their activities at this spoil area, as required from inspections performed by the Company. Final stabilization of the area utilized by the Seller shall consist of grading the spoils per the Company's instructions and applying temporary seeding (grass type shall be as directed by the Company) and straw. The spoil area is subdivided based on use by select Divisions within UT-B at ORNL. Therefore, a meeting with the UT-B Environmental Representative is required prior to the start of construction field activities in order to discuss the area to place spoil materials, erosion and sediment controls (E&SCs) required, etc. E&SCs will comply with the latest version of the Tennessee Erosion and Sediment Control Handbook.
- D. The UT-B Environmental Representative will inspect the area utilized by the project one time per week and relay issues (i.e. E&SCs, tracking mud/dirt onto paved road, housekeeping, spoil not acceptable, etc.) to the Seller's representative. The Seller shall fix the issues within the 5 working days or the next rain event, whichever duration is shorter.
- E. When on-site, all personnel shall report spills of any hazardous substance and chemical/radiological releases. Reporting requirements are within Section 01 55 00 Environmental Protection.

### 3.2 INSTALLATION

#### A. Temporary utilities.

1. Temporary utility connection needs shall be submitted to the Company TPO or CFR at the pre-construction meeting. These needs shall also be identified in the Work Control Documents (Demolition work plan or the Site-Specific Health and Safety Plan). Changes to the temporary utility needs during on-site work shall be coordinated with the Company TPO.
2. Seller shall provide temporary lines to use existing plant utilities. Tie-ins and disconnects to existing systems will be performed by the Company. Seller shall provide materials and equipment for these utility tie-ins. These shall be in place and ready for tie-in and shall coordinate connects/disconnects with the Company TPO. Remove temporary utilities after final disconnect.
3. Electric power availability will be provided in this Task Release. Seller shall provide GFCIs for temporary electrical lines. Perform temporary electrical work in accordance with ANSI/NFPA 70 (NEC) requirements.
4. If needed, process water availability will be provided in each Task Release. Company-approved backflow preventer and 2.5" hydrant gate valve provided by the Seller will be installed by the Company for temporary water line connections to hydrants. Operation of the hydrant will be performed by the Company. Hose shall be provided by Seller.

5. The Seller is responsible for providing their own telephone and communications service.
  6. Provide chemical toilet facilities at the site location. Maintain the toilets in a clean, safe, and sanitary condition for duration of the project per Specification 01110 (Safety and Health), Addendum 1.
- B. Protection of the work area.
1. Provide and maintain barrier fence around the perimeter of the work site and storage areas.
  2. Provide proper signs and postings in accordance with applicable regulations and Specification 01110 (Safety and Health).
  3. Post signage showing, as a minimum, Seller's name, telephone number, project title, and contract number for storage areas not located within the work site. If requested by the Seller, the Company can supply a template for the signage.
- C. Traffic and pedestrian control.
1. Seller shall provide traffic controls that conform to ANSI D 6.1, "Manual on Uniform Traffic Control Devices for Streets and Highways."
  2. A traffic control plan shall be developed and submitted for approval as part of the project Demolition Plan as referenced in the General Work Requirements Specification 01 01 00. As a minimum, the plan will address:
    - a. Requirement to maintain emergency vehicle access.
    - b. All planned road or pedestrian walkway closures, and a discussion of how the Seller will maintain vehicle and pedestrian safety in the vicinity of the work area.
    - c. Requirement to remove fuel truck from project site unless actively re-fueling.
    - d. Requirement to ensure that during work breaks all equipment is positioned in such a manner to allow passage of emergency service vehicles.
    - e. Requirement to remove keys from vehicles and keep vehicles locked when not in use.
  3. The work area shall be identified with barrier fencing and applicable project signage. Adequate detour routes for pedestrians and vehicles shall be provided. These signs shall be visible and clear in instructions.
- D. Trailer facility.
1. As needed, Seller shall provide a change trailer that includes clean/dirty change areas, showers, lockers, and storage for clean/dirty protective clothing. Change trailer and any required shower facility for asbestos abatement and demolition work shall meet all applicable regulatory requirements. Shower water shall be collected by Seller and discharged to Company sanitary sewer at an approved location. Asbestos shower water shall be filtered by Seller prior to discharge to sanitary sewer.

2. Locate the trailer within the work area designated on the Division 2 drawings, sufficiently clear of existing facilities. Proposed trailer location(s) shall be coordinated with the Company TPO for approval per Specification 01010.
3. Provide a platform, stairs, and handrails at each exterior door as applicable. Platforms shall be level with the trailer floor. Platforms and steps shall have a non-skid surface.
4. Anchor and support the trailer to prevent sliding and overturning according to ANSI A225.1 and NFPA 501A. Company provided jersey bouncers may be used to anchor the trailer. The Seller shall load, offload, and transport the jersey bouncers to and from the project site from the Company's on-site storage location.
5. Post project signage outside the trailer in accordance with Specification 01010. Include 24-hour emergency contact information per Specification 01010.

### 3.3 DUST CONTROL

- A. Control dust emissions during work in accordance with Seller's approved Demolition Plan. Prevent dust from migrating to areas adjacent to the work site. Limit use of water to prevent erosion and minimize potentially contaminated discharge. Seller is responsible for managing water per the approved Water Management Plan and Specification 01 55 00. Comply with the SWPPP, all regulations, and specification requirements relative to asbestos emission control requirements and water collection and management requirements.

### 3.4 DEMOBILIZATION

- A. Seller shall demobilize change trailer and all remaining equipment, materials, and supplies prior to final payment. Seller shall remove all postings and access controls and restore areas as close to the original condition as possible, unless otherwise noted by the Company.
- B. Seller shall notify Company TPO for disconnects of temporary utilities. Company TPO will complete a walkdown with Seller prior to final demobilization. Seller is responsible for resolving any identified punch-list items.

**END OF SECTION**



**SECTION 01 55 00 – ENVIRONMENTAL PROTECTION**

## PART 1 - GENERAL

## 1.1 RELATED DOCUMENTS

- A. Specification Section 010100, General Work Requirements.
- B. Specification Section 011100, Safety and Health.
- C. Specification Section 015000, Temporary Facilities and Site Controls.
- D. Specifications Section 017419, Demolition Waste Management and Disposal.

## 1.2 ATTACHMENTS

- A. Attachment 1, Oak Ridge National Laboratory (ORNL) Environmental Management System (EMS) Awareness Training for Construction and Service Contractors.
- B. Attachment 2, ORNL Project-Specific Site Wide Prevention Pollution Plan (SWPPP).
- C. Attachment 3, Managing Construction Waste Waters.

## 1.3 REFERENCES

- A. Environmental Protection Agency (EPA) 40 Code of Federal Regulations (CFR) 260 – 280 and Tennessee (TN) Rule 0400-12-01.
- B. The EPA, Designation, Reportable Quantities and Notification, 40 CFR 302.
- C. The EPA, National Emission Standards, Hazardous Air Pollutants, 40 CFR 61 & 40 CFR 63; and TN Rules 1200-3-8, Fugitive Dust, and 1200-3-11, Asbestos.
- D. EPA Protection of Stratospheric Ozone, 40 CFR 82.

## 1.4 DEFINITIONS

- A. Environmental protection: the prevention/control of pollution and habitat disruption that may occur to the environment during construction. The control of environmental pollution and damage requires consideration of land, water, and air; biological and cultural resources; and includes management of visual aesthetics; noise, solid, chemical, gaseous, and liquid waste; radiant energy and radioactive material as well as other pollutants.
- B. Resource Conservation and Recovery Act (RCRA) hazardous waste: any discarded material that is not excluded by 40 CFR Part 261.4(a) and that is listed in 40 CFR Subpart D or exhibits any of the characteristics identified in 40 CFR 261 Subpart C.

- C. Respiratory hazard wastes: fiberglass with loose fibers, mineral wools, slag wools, rock wools, and other manmade mineral fiber material.
- D. Sanitary waste: waste generated by offices, cafeteria, medical facilities and laboratories, and includes textile products (personal protective equipment [PPE], coveralls, cotton items, carpet, etc.).
- E. Special waste: wastes that are either difficult or dangerous to manage such as friable or non-friable asbestos, empty aerosol or paint containers, petroleum contaminated soil, bulk product PCB waste, PCB remediation wastes, etc.

## 1.5 TRAINING

- A. All on-site personnel performing work activities with potential to negatively impact the environment shall be provided with environmental awareness training in accordance with requirements of the ORNL EMS. The attached electronic file (Attachment 1) represents the minimum level of EMS Awareness Training to be provided to construction and subcontract workers. The training shall be provided by the Seller as part of the initial employee site orientation and Environment, Safety and Health (ES&H) briefing.
- B. The Sellers, their subcontractors and all employees who use hazardous materials and may generate or handle a hazardous waste, must provide evidence of having received RCRA Hazardous Waste Awareness Training and annual refresher training as required by 40 CFR 265.16 and 262.34 prior to starting any work involving these items.

## 1.6 SUBMITTALS

- A. Submit three copies of the Seller signed SWPPP for this project. Include Tennessee Department of Environment and Conservation (TDEC) Level 1 Erosion Prevention & Sediment Control (EP&SC) inspector certification documentation. Must have original seller signatures in blue ink. Must be submitted prior to the start of work.
- B. Submit the original signed SWPPP, complete with any revisions, addendums, TDEC Inspection Forms, and supplemental information at project completion.
- C. Submit for approval a Treatment and Discharge Plan to address the generation, capture, treatment and disposition of heavily chlorinated or super chlorinated water used to disinfect potable water systems. The Treatment and Discharge Plan shall minimally include but not be limited to specific details such as calculated concentration levels, treatment standards, treatment basin construction, discharge flow rates, and discharge monitoring parameters.
- D. Submit for approval, a list of non-storm water/waste water streams that are anticipated to be generated and the treatment and disposal methods for each stream. This must be approved by the Company prior to the start of work.

## 1.7 REQUIREMENTS TO COMPLY WITH APPLICABLE LAWS AND REGULATIONS

- A. The Seller shall provide written proof of registration, licensing, insurance, or other requirements upon request. It is the Seller's responsibility to ascertain and comply with all applicable federal, state, local and multi-jurisdictional laws, ordinances, and regulations pertaining to the registration, licensing, handling, transportation, packaging, management,

processing, resale and disposal of these materials under this contract. These federal, state, and local laws include but are not limited to the Clean Air Act; the Toxic Substances Control Act; the Atomic Energy Act; the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA); the Hazardous Materials Transportation Regulations; the Federal Motor Carrier Safety Regulations; the Tennessee Motor Vehicle Laws Annotated; the Emergency Planning and Community Right-to-Know Act, 40 CFR 279; and TDEC Rule Chapter 0400-12-01-.11.

## PART 2 - ENVIRONMENTAL PROTECTION

### 2.1 PERMITS

- A. Conduct all work so as to comply with applicable permits and regulatory requirements. The Company will identify the applicable permits and other regulatory requirements.
- B. Conduct all work in accordance with the Tennessee General Permit No. TNR10-0000, "Storm water Discharges from Construction Activities" (hereafter referred to as the General Permit). A copy of the Notice of Coverage will be provided by the Company.

### 2.2 GENERAL REQUIREMENTS

- A. Placement of fuel or oil storage tanks on-site is not allowed, unless approved by the Company during the bid process (Seller must submit this assumption with their project bid documentation). Fuel or oil needed shall be provided by off-site delivery trucks, as needed.
- B. The Seller shall minimize environmental pollution and damage that may occur as the result of demolition, renovation and/or any other construction operations.
- C. The Seller shall address environmental issues, potential negative impacts, and appropriate control measures in the Hazards Analysis (per Specification 011100) and discuss these topics during site orientation and pre-job briefings.
- D. Conduct all work that generates waste requiring disposal so as to comply with waste acceptance criteria of the disposal facility, in a manner that avoids negative impacts to operational or compliance status of the disposal facility.
- E. The Seller's personnel shall be cognizant of all aspects of environmental protection applicable to the Seller's work activities, including, but not limited to storm water pollution prevention and control, spill prevention and control, erosion and sediment control, fugitive dust and air emission control, and waste management requirements.
- F. Pollution prevention and waste minimization principles shall be incorporated in abatement and demolition activities to ensure the greatest environmental benefits and minimize future liability for the waste that is generated.
- G. Comply with all requirements of Section 017419, Demolition Waste Management and Disposal, including but not limited to the implementation of work planning and work practices to facilitate, where feasible, the recycle and/or salvage of at least 50% of non-hazardous construction and demolition debris.

## 2.3 SPILL PREVENTION

- A. Petroleum products stored in quantities greater than or equal to 55 gallons shall be appropriately labeled and have secondary containment capable of preventing any release to a drainage system or the environment. Secondary containment shall be configured so as to capture leaks and spills from both dispensing equipment and/or container(s). Containers 55 gallons or greater that store oil or Hazardous Substances (40 CFR 116 and 40 CFR 302) must comply with the requirements in the ORNL Spill Prevention Control and Countermeasures (SPCC) Plan.
- B. Prior to mobilization to the site, perform an inspection of equipment containing liquid systems including, but not limited to, bulldozers, backhoes, bobcats, drill rigs, trucks, hoists, and cranes, to ensure no leaks exist. Verify hoses, tubing, and hydraulic lines are in good operating condition. Make all necessary repairs before delivery of equipment or vehicles to the construction site.
- C. Perform daily inspections to ensure continued good operating condition of equipment and promptly repair all deficiencies. The Seller shall maintain documentation of inspections and provide to the Company upon request.
- D. Use due caution when operating oil-bearing equipment near aquatic resources. Where necessary, implement appropriate control measures, including but not limited to the use of physical barriers (plastic or tarps, berms, etc.) and/or absorbent materials to prevent leaks or spills from entering waterways.
- E. Use due caution when refueling vehicles or equipment, transferring fuels or other liquids to or from containers; have spill kit on hand for immediate cleanup as necessary. Avoid performing such transfer of fuels near streams or storm water inlets.

## 2.4 SPILL CONTROL AND CLEAN-UP

- A. When on-site, all personnel shall report spills of any hazardous substance and chemical/radiological releases. The Laboratory Shift Superintendent's (LSS) Office should be called for any spill or other emergency at 574-6606. Specially trained spill response teams clean up all types of spills at ORNL, including oil, hazardous substances, and hazardous waste and are available on shift 24 hours per day, 365 days per year. All spill response personnel have had, at a minimum the initial 24-hour Hazardous Waste Operations (HAZWOPER) Training. The Company will provide initial response; the Seller shall be responsible for all cleanup costs after initial response for activities caused by the Seller.
- B. The person discovering a spill should give the following information to the LSS:
  - 1. Type of spill if known (oil, gasoline, acid, base, etc.).
  - 2. Estimated volume of the spilled material.
  - 3. Location of the spill.
  - 4. Extent of the spill.
  - 5. Observer's location and telephone number.
- C. For outside work, provide a spill kit, inspect equipment for leaks, and repair leaking equipment in a timely manner.

- D. For inside work, provide a spill kit, prevent spills to floor drains and do not discharge waste into any ORNL systems without the Company approval.

## 2.5 STORM WATER POLLUTION PREVENTION AND CONTROL

- A. Conduct all work activities and maintain site conditions in accordance with the approved “Project-Specific SWPPP” (Attachment 2).
- B. Do not allow liquids, including but not limited to, gasoline, diesel fuel, lubricating oil, or antifreeze to enter the storm sewer systems, waterways, drainage ditches, or the ground.
- C. Be aware of storm drain inlets and utilize appropriate control methods and or devices, and cover or contain debris stored outside. Seal interior drains, roof drains, and nearby area drains prior to demolition activities.
- D. Tanks, drums, other containers, pumps and other dispensing units, and any secondary containment structures shall be located indoors, or under a canopy, or otherwise sheltered from contact with storm water in an appropriate and effective manner.
- E. Store all materials indoors or otherwise protected from weather.
- F. For outdoor painting operations, minimize overspray, and use tarps/vacuums/enclosures to contain sandblasting waste and paint chips from paint removal operations.
- G. Flushing empty concrete trucks or dumping excess concrete is prohibited. Transport excess concrete back to the batch plant. The truck chute may be washed onsite within a concrete washout box (constructed in accordance with the Tennessee Erosion and Sediment Control Handbook - latest edition) or at an off-site location approved by the Company. Solidified cement waste from truck chute cleaning is solid waste and shall be removed from the site, and properly disposed per Company approved locations.
- H. Prevent contamination of storm water by appropriate and effective control methods, such as daily removal of debris to the extent practicable, covering spoil material and debris piles from demolition or other activities, and otherwise diverting storm water from contact with same. Implement other effective controls to detain and filter or collect and treat waste waters generated by storm water contact with radiological or chemical contaminants. Controls shall be sized to handle the 25 year, 24 hour storm event.
- I. Minimize the use of deicing compounds and other chemical surface treatments; application should be performed at the minimum effective rates.
- J. Maintain a 60’ minimum buffer zone from streams, be aware of storm drain inlets, and cover or contain debris stored outside.
- K. The 90-day accumulation areas shall strictly adhere to requirements provided in Section 017419, “Demolition Waste Management and Disposal”.

## 2.6 MANAGING WASTE WATER

- A. Manage all waste waters in compliance with Attachment 3, “Managing Construction Waste Waters”.

- B. Water used to suppress dust during concrete cutting, demolition, or other activities shall not be discharged directly to storm drains, sanitary sewer, etc. Positive controls shall be used to protect drains from unfiltered discharges of this type.
- C. Unless otherwise directed by the Company, all chlorinated or treated water shall be discharged through a treatment/detention basin and monitored for chlorine levels, other contaminants when applicable, and standard water quality indicators. The treatment/detention basin may consist of a field-constructed structure or portable tank per the Seller's approved water management plan.
- D. The Seller shall establish a hold point for the Company inspection of the Seller installed water diversion and collection system prior to initiation of demolition activities with the potential for release.
- E. Storm water accumulated in demolition areas, chlorinated rinse water, and chlorinated water used to sterilize/flush pipelines shall not be directly discharged, or otherwise allowed to enter the storm systems, waterways, or drainage ditches without written approval from the Company.
- F. Notify the Company at least one week prior to any activities that will generate waste water. The Seller's water management plan identifying the source and composition of the waste water, and describing the control methods to be used for management and disposal shall be approved prior to generating the water. Notify the Company prior to any discharge of water, waste water or other liquid material at least 24 hours in advance, then again immediately prior to initiating discharge.

## 2.7 EROSION AND SEDIMENT CONTROL

- A. Appropriate temporary sediment controls will be in place prior to initiation of site clearing activities. Observe site conditions and inspect sediment controls at least twice weekly, and document the inspections using the "Construction Storm Water Inspection Certification (Twice-weekly Inspections)" Form at <http://tnepsc.org/> (CGP drop down menu at this home page). A Level I E&SC inspector is required to complete these inspections, as noted in the instructions on the inspection form.
- B. Appropriate effort will be made to avoid and/or mitigate damage to trees and shrubs adjacent to work activities. When it is deemed necessary to prune or remove branches from a tree or shrub (or when other damage occurs), the limb shall be cut off clean with chainsaw or other suitable device, and the wound dressed with an appropriate coating to mitigate future damage from insects or fungi.
- C. Manage excavated soil and spoil material in a manner protective of the environment. Cover stockpiled material to prevent erosion and/or install appropriate sediment controls. Use due caution during excavation or any other soil management in the vicinity of sanitary or storm systems, waterways, or drainage ditches.
- D. All erosion prevention measures and sediment controls shall comply with the Tennessee Erosion and Sediment Control Handbook (latest edition).

## 2.8 FUGITIVE DUST AND AIR EMISSION CONTROL

- A. Equipment operation, activities, or processes performed by the Seller shall be in accordance with all federal, state, and local air pollution standards.
- B. Use water mist, temporary enclosures, and other suitable methods to limit spread of dust and dirt.
- C. Burning will not be allowed on the project.
- D. Manage all equipment containing ozone-depleting substances (e.g. refrigerants) in accordance with the requirements of 40 CFR 82.

## PART 3 - WASTE MANAGEMENT

### 3.1 WASTE MANAGEMENT REQUIREMENTS

- A. The Seller shall comply with all waste management instructions provided by the Company, including but not limited to written specifications, drawing notes, waste management plans, policy or procedures, verbal instructions and waste accumulation area postings.
- B. Substantive requirements for waste management planning and execution, landfill requirements, salvage and recycling goals and methods are provided within Section 017419, "Demolition Waste Management and Disposal".
- C. If the Company has determined that select wastes can be disposed at the on-site Copper Ridge Spoils Area, follow requirements in Section 015000-Temporary Facilities and Site Controls.

**END OF SECTION**

## ATTACHMENT 1

### ORNL ENVIRONMENTAL MANAGEMENT SYSTEM AWARENESS TRAINING FOR CONSTRUCTION AND SERVICE SUBCONTRACTORS

#### I. POLLUTION

##### **Water Pollution:**

Release of pollutants directly into surface waters, or indirectly via storm water runoff, fuels, oil, chlorine, & other chemical products, uncured cement, erosion & sedimentation, etc.

Fish kills, impairment of water quality and aquatic habitat

##### **Land Pollution:**

Windblown litter from job sites and/or moving open bed trucks, improper management of chemical products and hazardous wastes

##### **Air Pollution:**

Fugitive dust from site grading, sandblasting, demolition, etc.

##### **Many construction activities have potential to pollute the environment:**

Refueling operations	Site clearing, grading and excavation
Spills & leaking equipment	Demolition & other dust-producing activities
Material handling & storage	Concrete finishing, cutting, concrete pumper and/or delivery chute flush out
Paint & coatings applications	Water line disinfection and flushing

#### II. CONSEQUENCES

Fines and penalties	Suspension of permits
Cost and schedule impacts	Work stoppage
Abatement measures	Corrective actions
Loss of eligibility to participate in future projects	Potential negative impacts to funding for future projects



### III. PREVENTION

#### **The ORNL Environmental Management System:**

Applies to everyone whose work has the potential to impact the environment.

Requires that all workers be made aware of potential environmental consequences associated with their work activities, and use appropriate control measures.

Requires notification of Construction Field Representative (CFR) and LSS in response to spills and other environmental incidents or unusual conditions.

#### **Environmental Requirements are communicated to Subcontractors:**

To managers and supervisors through technical specifications, plans & drawings, electronic postings, correspondence, etc.

To individual workers, during site orientations and Hazard Analysis (HA) review, at ES&H briefings, and whenever assigning specific tasks that could result in a negative environmental impact.

#### **Environmental Expectations:**

Construction and Service Subcontractors are expected to:

- Plan, bid, and conduct work in accordance with specifications
- Communicate & enforce requirements with employees and with lower tier subcontractors.

Workers are expected to:

- Understand and comply with environmental requirements,
- Report unusual conditions and/or environmental incidents, and  
Consult supervision with any environmental concerns, questions, or observations

**Storm Water Pollution Prevention Plan (SWPPP)**

**For Construction Activities At:**

Craft Resources Support Facility – Demolition Phase  
White Oak Avenue  
Oak Ridge, Tennessee 37830

**SWPPP Prepared For:**

U. S. Department of Energy  
Oak Ridge National Laboratory  
Oak Ridge, TN 37830

**SWPPP Prepared By:**

Fulghum, MacIndoe & Associates, Inc.  
Aaron M. Gray, P.E.  
10330 Hardin Valley Road, Suite 201  
Knoxville, TN 37932  
(865) 690-6419  
(865) 690-6448

**SWPPP Preparation Date:**

December 17, 2020

**Estimated Project Dates:**

**Project Start Date: March 2021**  
**Project Completion Date: June 2021**



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**SECTION 1: CONTACT INFORMATION/RESPONSIBLE PARTIES**

**1.1 Primary Contractor(s) & Primary Construction Contractor(s)**

**Primary Contractor (referred to as “Company”):**

UT-Battelle, LLC  
Nilay Jhaveri, Project Manager  
P. O. Box 2008  
Oak Ridge, TN 37831  
(865) 574-0542  
1NJ@ornl.gov

**Primary Construction Contractor (referred to as “Seller”):**

\_\_\_\_\_  
TBD  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Emergency 24-Hour Contact:**

Oak Ridge National Laboratory  
Laboratory Shift Superintendent's Office  
(865) 576-4LSS (4577)

**1.2 Storm Water Team**

SWPPP Preparer:

Aarron M. Gray, P.E. – Project Manager/Civil Engineer  
Fulghum, MacIndoe, & Associates, Inc.  
Phone: (865) 251-5071  
E-mail: [gray@fulghummacindoe.com](mailto:gray@fulghummacindoe.com)

Primary Contractor Representative:

Todd North, P.E. – Clean Water Act Compliance Specialist  
UT-Battelle, LLC  
P. O. Box 2008, MS 6395  
Oak Ridge, TN 37831  
(865) 574-8918  
E-mail: [northta@ornl.gov](mailto:northta@ornl.gov)

Primary Construction Contractor Representative:

\_\_\_\_\_  
TBD (name of person or position)  
\_\_\_\_\_  
(company)  
\_\_\_\_\_  
(address)  
\_\_\_\_\_  
(city, state, zip)  
\_\_\_\_\_  
(phone)

## SECTION 2: SITE EVALUATION, ASSESSMENT, AND PLANNING

Current versions of this SWPPP, NOI, and the NOC will be kept on-site for the duration of the project. These items will be available for the use of operators and site personnel involved with erosion and sediment controls, and will be available to TDEC personnel visiting the site.

It is the intent and goal of the TN CGP (link provided in Appendix A) and this SWPPP that storm water discharge from the property described in this document causes no objectionable color contrast to the water body that receives it. The construction activity will be carried out in such a manner as to prevent discharge that would cause a condition in which visible solids, bottom deposits, or turbidity impairs the usefulness of the waters on the property or downstream of the property for fish and aquatic life, livestock watering and wildlife, recreation, irrigation, navigation, or industrial or domestic water supply.

This plan may be amended for reasons described herein, or for other reasons. As per 3.5.8.2(f) of the TN CGP, the SWPPP must be updated within 7 days and revisions implemented within 14 days after the need for modification is identified. The construction erosion & sediment controls drawings will be maintained to reflect current erosion & sediment controls installed in the field. Assessment of the accuracy of the erosion & sediment controls drawings to field conditions will be completed every 2 weeks. A log to documents the amendments will be maintained and provided in Appendix B.

The installation of erosion prevention and sediment controls (EP&SC) will be supervised by a TDEC Level 1 EP&SC certified person. A copy of this certification is provided in Appendix C.

### 2.1 Project/Site Information

#### Project Name and Address

Craft Resources Support Facility - Demolition Phase  
Oak Ridge, Tennessee 37830  
Roane County

This project site is located within an area that does not have published survey data. The Roane County Soils Maps produced by the United States Department of Agriculture Natural Resources Conservation Service has this area labeled as "AREA NOT SURVEYED – U.S. DEPARTMENT OF ENERGY (OAK RIDGE AREA)". The soil groups of the nearest surveyed soil to the project site (approximately 0.5 miles to the east) indicate Hydrologic Soil Groups (HSG) of C and D in this region. We estimate an HSG of C for pre-developed conditions and an HSG of C for post-construction conditions. The Runoff Curve Number (CN) for the pre-developed conditions is estimated to be 90 for open space – poor condition; open space – good condition; impervious areas: gravel; and impervious areas: paved. The Runoff CN for the post-construction conditions is estimated to be 90 for open space – poor condition; open space – good condition; impervious areas: gravel; and impervious areas: paved.

#### Project Latitude/Longitude

Latitude:  
35°56'09" (degrees, minutes, seconds)

Longitude:  
-84°17'51" (degrees, minutes, seconds)

Method for determining latitude/longitude:

USGS topographic map (specify scale):  EPA Web site  GPS

Horizontal Reference Datum:

NAD 27  NAD 83 or WGS 84  Unknown  ORNL Grid

If you used a U.S.G.S topographic map, what was the scale? \_\_\_\_\_

---

**Permit Information**

Are there any additional permits applicable to this project which may impose additional requirements during construction?  Yes  No

If yes, check the applicable permits:

U.S. Army Corps of Engineers (USACE) Nationwide Permit (wetlands, streams, etc.)  
 Yes  No

TN Aquatic Resource Alteration Permit  Yes  No

TN Underground Injection Control (septic tanks, improvements to sink holes, etc.)  
 Yes  No

**Additional Project Information**

**2.2 Discharge Information**

Are there any surface waters that are located within 60 feet of your construction disturbances?

Yes  No

**Table 1 – Names of Receiving Waters**

Name(s) of the first surface water that receives storm water directly from your site and/or from the MS4 (note: multiple rows provided where your site has more than one point of discharge that flows to different surface waters)
1. <b>Whiteoak Creek</b>
2.
3.
4.
5.
6.

**Table 2 – Impaired Waters / TMDLs**

	Is this surface water listed as "impaired"?	If you answered yes, then answer the following:			
		What pollutant(s) are causing the impairment?	Has a TMDL been completed?	Title of the TMDL document	Pollutant(s) for which there is a TMDL
1.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<b>Cesium, Strontium</b>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
2.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<b>Biointegrity loss due to undetermined cause</b>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<b>EPA to develop TMDL in future</b>	
3.	<input type="checkbox"/> YES <input type="checkbox"/> NO		<input type="checkbox"/> YES <input type="checkbox"/> NO		
4.	<input type="checkbox"/> YES <input type="checkbox"/> NO		<input type="checkbox"/> YES <input type="checkbox"/> NO		
5.	<input type="checkbox"/> YES <input type="checkbox"/> NO		<input type="checkbox"/> YES <input type="checkbox"/> NO		
6.	<input type="checkbox"/> YES <input type="checkbox"/> NO		<input type="checkbox"/> YES <input type="checkbox"/> NO		

Describe the method(s) you used to determine whether or not your project/site discharges to an impaired water:

Research through the Tennessee Department of Environment and Conservation resources and documentation. The receiving water for the storm water runoff from this site is Whiteoak Creek. Whiteoak Creek is a tributary to the Lower Clinch River. The construction site is about 5.3 stream miles from the Clinch River. Neither Whiteoak Creek nor the reach of the Clinch River to which Whiteoak Creek discharges are identified in either of the TMDL's as a sub watershed that is impaired by those pollutants, and are therefore not targeted in the TMDLs for pollutant reductions. The Lower Clinch River watershed has two approved TMDLs, one for pathogens and one for siltation and habitat alteration. There is also an approved TMDL for PCBs and Chlordane for the Watts Bar Reservoir, including the Roane County portion of the reservoir which includes the Lower Clinch River. The TMDL surmises that the primary source of PCBs and chlordane in the Watts Bar Reservoir is existing sediments in the river channel. Construction activities are not identified as sources of PCBs or chlordane and are not targeted in the TMDL for pollutant reductions. Therefore, this project is eligible for coverage under the general permit. Controls outlined in this SWPPP were selected to ensure that neither Whiteoak Creek, nor the Clinch River will be adversely impacted by this proposed development.

**Table 3 – Tier 2, 2.5, or 3 Waters** (Answer the following for each surface water listed in Table 1 above)

	Is this surface water designated as a Tier 2, Tier 2.5, or Tier 3 water?	If you answered yes, specify which Tier (2, 2.5, or 3) the surface water is designated as?
1.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
2.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
3.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
4.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
5.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
6.	<input type="checkbox"/> YES <input type="checkbox"/> NO	



## 2.3 Nature of the Construction Activity

### General Description of Project

The project site is located on the east end of the ORNL 7000 area, south of White Oak Avenue (refer to "Site Demolition" drawing in Appendix E). This project includes the demolition of the existing buildings, including all the associated building slabs, footings, sidewalks, pavements, and fencing. Also included is the removal or abandonment of all utilities and storm drains in the area. Utility trenches and building foundations will be backfilled with mineral aggregate and compacted. Surface drainage will continue to the existing storm system to the west of the site, south of Tent 7010A.

### Size of Construction Project

SIZE OF PROPERTY: 8 acres

TOTAL AREA OF CONSTRUCTION DISTURBANCES: ±7.5 acres

MAXIMUM AREA TO BE DISTURBED AT ANY ONE TIME: ±7.5 acres

### Construction Support Activities

Construction support activities for this project (e.g., equipment staging yards, material storage areas, excavated material disposal areas) will be maintained and operated off-site. The current locations designated for staging and laydown areas are currently gravel pads and no new disturbance of these areas is expected during construction. If ground disturbance does take place in these areas during construction, the contractor shall follow the same guidelines as those for the site activities.

## 2.4 Sequence and Estimated Dates of Construction Activities

### Demolition Phase

#### Stage I

Initial Best Management Practices (BMPs)

- Start Stage I March 2021 and end Stage I March 2021
- Install construction entrance, silt fence, inlet protection, and wattles.

#### Stage II

Building and Utilities Demolition

- Start Stage II March 2021 and end Stage I May 2021
- Maintain Stage 1 BMPs.
- Demolition and backfill of buildings and appurtenances, removal of concrete pavement, storm drainage system, and other site utilities.

#### Stage III

Storm Drainage Installation and Pavement Demolition

- Start Stage III May 2021 and end Stage III June 2021
- Maintain Stage II BMPs.

- Installation of storm drainage.
- Milling and stockpiling of asphalt paving.
- Alternate: Demolition and stockpiling of gravel paving.

**Stage IV**

Stabilize Construction Areas/Complete Construction

- Start Stage IV June 2021 and end Stage IV June 2021
- Maintain Stage III BMPs.
- Place additional temporary erosion control measures as required to stabilize gravel covered site.
- Alternate: Place additional erosion control measures as required to stabilize the open site.

**2.5 Allowable Non-Storm Water Discharges**

**List of Allowable Non-Storm Water Discharges Present at the Site**

Type of Allowable Non-Storm Water Discharge	Likely to be Present at Your Site?
Waters used to wash vehicles and equipment	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
Water used to control dust	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
Potable water including uncontaminated water line flushings	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
Routine external building wash down	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Uncontaminated, non-turbid discharges of ground water or spring water	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Foundation or footing drains	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Construction dewatering water	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

If "yes", refer to requirements provided in Appendix D.

**2.6 Site Map**

See Appendix E

**SECTION 3: DOCUMENTATION OF COMPLIANCE WITH OTHER FEDERAL REQUIREMENTS**

**3.1 Endangered Species Protection, Wetlands, Flood Plains, Etc.**

Are any of the following applicable to this project:

Any endangered species (flora, animals, etc.)  Yes  No (TBD by ORNL Natural Resources prior to construction activities)

Indiana Bat Roosting Trees  Yes  No

Project within the 100-yr or 500-yr flood plain boundaries  Yes  No

Wetlands present on-site or adjacent to the project boundaries  Yes  No

**3.2 Safe Drinking Water Act Underground Injection Control Requirements**

Do you plan to install any of the following controls? Check all that apply below.

- Infiltration trenches (if storm water is directed to any bored, drilled, driven shaft or dug hole that is deeper than its widest surface dimension, or has a subsurface fluid distribution system)
- Commercially manufactured pre-cast or pre-built proprietary subsurface detention vaults, chambers, or other devices designed to capture and infiltrate storm water flow
- Drywells, seepage pits, or improved sinkholes (if storm water is directed to any bored, drilled, driven shaft or dug hole that is deeper than its widest surface dimension, or has a subsurface fluid distribution system)

If yes, explain:

## SECTION 4: EROSION AND SEDIMENT CONTROLS

The erosion and sediment control best management practices identified in this SWPPP and as shown on the construction plans will be installed in accordance with the Tennessee Erosion and Sediment Control Handbook, latest revision.

Prior to tree removal, clearing, and grubbing, forestry BMPs should be employed to prevent water quality impacts, and in addition, the contractor is responsible for promptly adding additional controls if forestry BMPs prove inadequate.

### 4.1 *Natural Buffers or Equivalent Sediment Controls*

#### Buffer Compliance Alternatives

Are there any surface waters within 60 feet of your project's earth disturbances?  YES  NO

Check the compliance alternative that you have chosen:

- I will provide and maintain a 60-foot undisturbed natural buffer.
- I will provide and maintain an undisturbed natural buffer that is less than 60 feet (but not less than an average of 30 ft with no disturbance within 15 ft) and is supplemented by additional erosion and sediment controls, which in combination achieves the sediment load reduction equivalent to a 60-foot undisturbed natural buffer.
- It is infeasible to provide and maintain an undisturbed natural buffer of any size, therefore I will implement erosion and sediment controls that achieve the sediment load reduction equivalent to a 60-foot undisturbed natural buffer.
- I qualify for a buffer zone exemption based on existing uses of the property, as described in Paragraph 4.1.2.1 of the TN CGP.

### 4.2 *Perimeter Controls*

#### General

- Appropriate erosion and sediment control structures will be installed in accordance with the Erosion and Sediment Control Plan prior to any land disturbance beginning. Silt fencing shall be installed and properly maintained during all grading activities until final stabilization is established on the site.

#### Specific Perimeter Controls

##### Perimeter Control # 1 – Silt Fence

##### Perimeter Control Description

- A silt fence will be installed at downgradient locations around the perimeter of the construction site according to the engineering plans.
- Reference the construction drawings for locations and details of perimeter controls.

#### Installation

- The silt fence will be installed in Stage I of construction.

#### Maintenance Requirements

- Accumulated sediment will be removed from silt fence when it has reached one-third the height of the fence.
- Silt fences will be inspected for depth of sediment, tears, security of attachment to the fence posts, and to see that the fence post are firmly in the ground and upright.
- Reference TDEC standard BMPs requirements for installed erosion prevention and sediment control devices.

### Perimeter Control # 2 – Wattles

#### Perimeter Control Description

- Wattles will be installed at downgradient locations around the perimeter of the construction site according to the engineering plans.
- Reference the construction drawings for locations and details of perimeter controls.

#### Installation

- The wattles will be installed in Stage I of construction.

#### Maintenance Requirements

- Accumulated sediment will be removed from wattles when it has reached one-half the height of the wattle.
- Wattles will be inspected for depth of sediment, tears, and evidence of scour or bypass flow.
- Reference TDEC standard BMPs requirements for installed erosion prevention and sediment control devices.

## **4.3 Sediment Track-Out**

### **General**

- Before any construction begins, a construction entrance will be installed as shown on the engineering plans for ingress and egress.

### **Specific Track-Out Controls**

#### Track-Out Control # 1 – Construction Entrance

#### Track-Out Control Description

- A construction entrance for ingress and egress will be installed in accordance with the engineering plans.
- Reference design drawings for locations and details of construction entrance.

#### Installation

- The construction entrance will be installed in Stage I of construction.

#### Maintenance Requirements

- A construction entrance shall be used to remove mud and other debris from the wheels of construction vehicles. If necessary, a separate vehicle wash down station may be necessary in

order to minimize the amount of mud and debris carried into the main roadway system (ensure compliance with applicable procedures in Appendix D). Regular removal of material tracked onto streets is required.

- Where sediment has been tracked-out from your site onto the surface of off-site streets, other paved areas, and sidewalks, you must remove the deposited sediment by the end of the same work day in which the track-out occurs or by the end of the next work day if track-out occurs on a non-work day. You must remove the track-out by sweeping, shoveling, or vacuuming these surfaces, or by using other similarly effective means of sediment removal. You are prohibited from hosing or sweeping tracked-out sediment into any storm water conveyance (unless it is connected to a sediment basin, sediment trap, or similarly effective control), storm drain inlet, or surface water.

#### **4.4 Stockpiled Gravel, Crushed Asphalt, Sediment, or Soil**

##### **General**

- Diversion ditches and berms will be constructed as necessary to divert runoff from the active construction area, and to prevent off-site run-off from draining into the construction area. Where diversion ditches are berms are not practical, erosion wattles shall be installed.

##### **Specific Stockpile Controls**

###### Stockpile Control # 1

###### Stockpile Control Description

- Diversion ditches shall be directed to grassy areas whenever possible.
- Stockpiles should be covered with plastic (anchored appropriately) to prevent mobilization of sediment during rain events. If this approach is not practical and as approved by the Company, sediment controls, such as silt fence and erosion wattles, may be used around the stockpile.
- Disturbed portions of the site where construction activity temporarily ceases will be stabilized with gravel pavement no later than 15 days from the last construction activity in that area.

###### Installation

- Diversion ditches and berms shall be installed as required.
- Erosion wattles shall be installed as a part of Stage III construction.

###### Maintenance Requirements

- Do not hose down or sweep soil or sediment accumulated on pavement or other impervious surfaces into any storm water conveyance (unless connected to a sediment basin, sediment trap, or similarly effective control), storm drain inlet, or surface water.

#### **4.5 Minimize Dust**

##### **General**

##### **Specific Dust Controls**

###### Dust Control # 1

###### Dust Control Description

- Contractor shall provide required water to the site to keep airborne dust to a minimum. This can be achieved by spraying the site with a tanker truck or utilizing a washed gravel pad over disturbed areas.

Installation

- Reference design drawings and specifications for installation requirements.

Maintenance Requirements

- Disturbed portions of the site where construction activities permanently cease will be stabilized with gravel pavement no later than 15 days after the last construction activity.

**4.6 Minimize the Disturbance of Steep Slopes**

Not Applicable

**4.7 Topsoil**

**General**

- Topsoil shall be stripped and disposed of off-site in accordance with TDEC's requirements and the construction drawings.

Installation

- Not Applicable.

**4.8 Backfill Compaction**

**General**

- All filled areas of the site are to be compacted properly to allow for the construction of the future buildings and parking areas.

**Specific Compaction Controls**

Compaction Control

Compaction Control Description

- Backfill shall be properly compacted in accordance with the construction drawings and the specifications.

Installation

- Backfill compaction will take place during Stage II and Stage III of the project.

Maintenance Requirements

- Once final grade has been achieved, the EPSCs shall be installed to ensure proper compaction is maintained.
- Alternate: Once final grade has been achieved, gravel shall be installed over the exposed areas of the site to ensure proper compaction is maintained.

**4.9 Storm Drain Inlets**

**General**

- The contractor will use a combination of temporary storm drain inlets, structural drainage covers, and filter fabric inserts with stone filtration to minimize the volume of sediment reaching the ORNL storm water drainage system.

### **Specific Storm Drain Inlet Controls**

#### Storm Drain Inlet Control #1

##### Storm Drain Inlet Control Description

- Pre-manufactured storm drainage structure covers such as Silt Saver or equivalent.
- Reference construction documents and specifications for details.

##### Installation

- Drainage structure inlets will be installed in Stage I of construction for existing inlet and Stage III for proposed inlets.

##### Maintenance Requirements

- Clean, or remove and replace, the protection measures as sediment accumulates, the filter becomes clogged, and/or performance is compromised. Where there is evidence of sediment accumulation adjacent the inlet protection measure, you must remove the deposited sediment by the end of the same work day in which it is found or by the end of the following work day if removal by the same work day is not feasible.
- Structures will be maintained per the manufacturer's requirements.

#### Storm Drain Inlet Control #3

##### Storm Drain Inlet Control Description

- At-grade inlet protection will consist of filter fabric installed into existing structures with a layer of stone placed over the structure.
- Reference construction documents and specifications for details.

##### Installation

- Drainage structure inlets will be installed in Stage I of construction for existing inlet and Stage III for proposed inlets.

##### Maintenance Requirements

- Clean, or remove and replace, the protection measures as sediment accumulates, the filter becomes clogged, and/or performance is compromised. Where there is evidence of sediment accumulation adjacent the inlet protection measure, you must remove the deposited sediment by the end of the same work day in which it is found or by the end of the following work day if removal by the same work day is not feasible.
- Structures will be maintained per the manufacturer's requirements.

### **4.10 Constructed Storm Water Conveyance Channels**

Not applicable

### **4.11 Sediment Basins**

Not applicable.



#### **4.12 Chemical Treatment**

Not applicable.

#### **4.13 Dewatering Practices**

Requirements in Appendix D will be followed.

#### **4.14 Other Storm Water Control**

##### **General**

- Not applicable for this project.

##### **Specific Storm Water Control Practices**

- Not applicable for this project.

#### **4.15 Site Stabilization**

##### **Site Stabilization Practice**

Vegetative  Non-Vegetative  
 Temporary  Permanent

##### **Description of Practice**

- All areas of the site shall receive EPSCs
- Alternate: All exposed areas of the site shall receive gravel cover.

##### **Installation**

- Site stabilization will occur in *Stage IV* of construction.
- Final stabilization will occur as the final grading is complete.

##### **Maintenance Requirements**

- Not applicable.

##### **Final Stabilization**

- Final stabilization shall meet the requirements as defined in the TN Construction General Permit (CGP), Section 10 – Definitions.

**SECTION 5: POLLUTION PREVENTION BMPs**

**5.1 Potential Sources of Pollution**

**Construction Site Pollutants**

<b>Pollutant-Generating Activity</b>	<b>Pollutants or Pollutant Constituents</b> (that could be discharged if exposed to storm water)	<b>Location on Site</b> (or reference SWPPP site map where this is shown)
Grading activities	Sediment	All areas
Fuel contamination	Hydrocarbons	All areas

**5.2 Spill Prevention and Response**

Materials and equipment necessary for spill cleanup will be kept in the material storage area on-site. Equipment and materials may include, but will not be limited to brooms, dust pans, mops, rages, gloves, goggles, kitty litter, sand, sawdust, and plastic and metal trash containers specifically for this purpose.

If a release containing a hazardous substance or petroleum/oil product occurs, the contractor will immediately notify the ORNL Laboratory Shift Superintendent's Office at 576-4LSS (4577) and the appropriate Company Representative. In the event that a release occurs, the contractor will prepare a revision of this document to identify measures to prevent the reoccurrence of such releases and how to clean-up the spill if there is another one. A description of the spill, what caused it, and the clean-up measures will also be included.

**5.3 Fueling and Maintenance of Equipment or Vehicles**

**General**

- Petroleum products stored in quantities greater than or equal to 55 gallons shall be appropriately labeled and have secondary containment capable of preventing any release to a drainage system or the environment. Secondary containment shall be configured so as to capture leaks and spills from both dispensing equipment and/or container(s). Containers 55-gallons or greater that store oil or CERCLA Hazardous Substances (40 CFR 302) must comply with the requirements in the ORNL Spill Prevention Control and Countermeasures (SPCC) plan.
- Placement of fuel or oil storage tanks on-site is not allowed. Fluids needed for construction equipment shall be provided by off-site delivery trucks, as needed.
- Fueling of equipment and vehicles on-site will be conducted near the construction entrance/staging area, but a sufficient distance away from the existing storm drain in this area. A spill cover/mat shall be placed over this storm drain inlet whenever equipment is fueled.
- A spill kit shall be readily available during equipment fueling operations.
- Spills will be removed immediately. Contaminated soils will be placed on heavy plastic and covered or placed into approved containers to prevent contact with storm water. Fuel tanks will be located within a designated area. Oils, other vehicle fluids, paints, and solvents will be stored in the construction trailer or other covered structure. Any spills will be reported to a Company Representative.

#### **5.4 Washing of Equipment and Vehicles**

##### **General**

- Construction runoff related to equipment washing, rinsing or other maintenance shall not be done on the site unless proper control measures are taken. Approval of the Company of the proposed control measures and location will be obtained.

##### **Specific Pollution Prevention Practices**

###### Pollution Prevention Practice # 1

###### Description

- Concrete trucks will not be allowed to wash out or discharge surplus concrete or drum wash water on the site unless appropriate provisions are provided. Requirements are listed in Appendix D.

###### Installation

- Contractor to verify the location of all temporary controls as required by construction activities.

###### Maintenance Requirements

- Maintenance of standard controls will be required is used for maintenance activities other than those intended for the device. Contractor to ensure that these controls are always in working order.

#### **5.5 Storage, Handling, and Disposal of Construction Products, Materials, and Wastes**

##### **5.5.1 Pesticides, Herbicides, Insecticides and Fertilizers**

###### **General**

- Not applicable for this project.

##### **5.5.2 Diesel Fuel, Oil, Hydraulic Fluids, Other Petroleum Products, and Other Chemicals**

###### **General**

- Storage of these chemicals will be in enclosed containers to prevent rainfall or runoff from contacting these materials.
- Petroleum products will be stored in tightly sealed containers, which are clearly labeled.
- Asphalt substances used on-site will be applied according to the manufacturer's recommendations.
- Waste materials will be properly disposed of according to the manufacturer's instructions and in conformance with applicable local, state, and federal regulations.

##### **5.5.3 Hazardous or Toxic Waste**

###### **General**

- Hazardous and toxic products will be stored in tightly sealed containers, which are clearly labeled.
- Hazardous and toxic products used on-site will be applied according to the manufacturer's recommendations.
- Hazardous and toxic waste materials will be properly disposed of according to the manufacturer's instructions and in conformance with applicable local, state, and federal regulations.

##### **5.5.4 Construction and Domestic Waste**

###### **General**

- Each contractor is responsible to provide litter control for trash generated by their crew.

### **Specific Pollution Prevention Practices**

#### Pollution Prevention Practice # 1

##### Description

- A dumpster or other appropriate securely lidded container for garbage will be located near the construction trailer and is limited to garbage and paper trash only.

##### Installation

- Container and receptacles are to be installed as part of Stage I by the contractor.

##### Maintenance Requirements

- Contractor to maintain a clean work site with available containers for site waste.

### **5.5.5 Sanitary Waste**

#### **General**

- Contractor to make on site provisions for workers to have on-site potable bathroom facilities.

### **Specific Pollution Prevention Practices**

#### Pollution Prevention Practice # 1

##### Description

- Contractor to locate portable bathrooms on the site as required by the project's general conditions. Location of these bathrooms will not be near storm drain inlets.

##### Installation

- Portable facilities to be located on site during Stage I of construction.

##### Maintenance Requirements

- Contractor to coordinate with supplier for on-site maintenance of facilities and disposal of wastes.

### **5.6 Washing of Applicators and Containers used for Paint or Other Materials**

#### **General**

- Not applicable for this project.

## SECTION 6: INSPECTIONS

### 6.1 Inspection Personnel and Procedures

#### Personnel Responsible for Inspections

- All personnel conducting inspections must have the TDEC Level 1 Erosion Prevention & Sediment Control Certification. This certification is also required for the person that will supervise installation of erosion and sediment controls.

#### Inspections

- Disturbed areas that have not been finally stabilized, areas used for storage of materials exposed to precipitation, structural control measures, locations where vehicles enter and exit the site, and all points of outfall will be inspected in anticipation of a storm event, at least twice per week (at least 72 hours apart).
- A construction entrance shall be used to remove mud and other debris from the wheels of construction vehicles. If necessary, a separate vehicle wash down station may be necessary in order to minimize the amount of mud and debris carried into the main roadway system. Regular removal of material tracked onto streets is required.
- Control structures will be maintained in good working order; if a repair is necessary, it will be initiated within 7 days of discovery and/or prior to the next rain event if possible.
- Built up sediment will be removed from silt fence when it has reached one-third the height of the fence.
- Silt fences will be inspected for depth of sediment, tears, security of attachment to the fence posts, and to see that the fence posts are firmly in the ground and upright.
- Gravel pavement will be checked for washouts and repairs shall occur as necessary.

#### Inspection Report Forms

- Reference Appendix F for Inspection Reports.

### 6.2 Delegation of Authority

#### Company Duly Authorized Representative(s) or Position(s):

UT-Battelle, LLC  
Todd North  
Clean Water Act Compliance Specialist  
P. O. Box 2008  
Oak Ridge, TN 37831  
(865) 574-8918

#### Seller Duly Authorized Representative(s) or Position(s):

\_\_\_\_\_ (name of person or position)  
\_\_\_\_\_ (company)  
\_\_\_\_\_ (address)  
\_\_\_\_\_ (city, state, zip)  
\_\_\_\_\_ (phone)

Blank Delegation of authority letter is provided in Appendix G, if needed by Seller.

**SECTION 7: CERTIFICATION**

Primary Contractor: **UT-Battelle, LLC**

I certify under penalty of law that I have reviewed this document, any attachments, and the SWPPP referenced above. Based on my inquiry of the construction site owner/developer identified above, and/or my inquiry of the person directly responsible for assembling this NOI and SWPPP, I believe the information submitted is accurate. I am aware that this NOI, if approved, makes the above-described construction activity subject to NPDES permit number TNR100000, and that certain of my activities on-site are thereby regulated. I am aware that there are significant penalties, including the possibility of fine and imprisonment for knowing violations and for failure to comply with these permit requirements.

Signed: \_\_\_\_\_ Date: \_\_\_\_\_  
John E. Powell, Director – Environment, Safety, Health, and Quality

Primary Construction Contractor: \_\_\_\_\_

I certify under penalty of law that I have reviewed this document, any attachments, and the SWPPP referenced above. Based on my inquiry of the construction site owner/developer identified above, and/or my inquiry of the person directly responsible for assembling this NOI and SWPPP, I believe the information submitted is accurate. I am aware that this NOI, if approved, makes the above-described construction activity subject to NPDES permit number TNR100000, and that certain of my activities on-site are thereby regulated. I am aware that there are significant penalties, including the possibility of fine and imprisonment for knowing violations and for failure to comply with these permit requirements.

Signed: \_\_\_\_\_ Date: \_\_\_\_\_

Name and Title: \_\_\_\_\_

**SWPPP APPENDICES**

Attach the following documentation to the SWPPP:

***Appendix A – Link to TN Construction General Permit (CGP)***

***Appendix B – SWPPP Amendment Log***

***Appendix C – TDEC Level 1 Certifications***

***Appendix D – Managing Construction Waste Waters***

***Appendix E – Site Maps and Drawings***

***Appendix F – Inspection Forms***

***Appendix G – Delegation of Authority***

## Appendix A – TN CGP

Refer to:

[http://environment-online.state.tn.us:8080/pls/enf\\_reports/f?p=9034:34051:0::NO:34051:P34051\\_PERMIT\\_NUMB ER:TNR100000](http://environment-online.state.tn.us:8080/pls/enf_reports/f?p=9034:34051:0::NO:34051:P34051_PERMIT_NUMB ER:TNR100000)



## **Appendix B – SWPPP Amendment Log**



## **Appendix C – TDEC Level 1 Certifications**

## **Appendix D – *Managing Construction Waste Waters***

## Managing Construction Waste Waters

For the purposes of these guidelines, when a construction process utilizes water from any source, water that is not used up in the process (or lost by evaporation) should be considered to be waste water.

Typical construction waste waters include those listed below, although particular circumstances and/or site specific conditions may alter the nature of these waste waters, or result in the generation of non-typical waste waters not addressed under these guidelines. When project planners determine that non-typical wastewaters may be generated or discover that they have been, consultation with an Environmental Compliance Representative should take place as soon as practicable.

### **Mechanical construction activities:**

Pipeline draining, flushing, disinfection, hydrostatic testing

### **Civil construction activities:**

Removing accumulated storm water from trenches & other excavations or structures

Flushing concrete truck chute and/or cleaning associated tools and equipment

Water from high pressure washing and/or hosing down surfaces

### **Demolition activities:**

Concrete cutting systems (blade coolant/dust suppression water)

General dust suppression water

Work Activity	Waste water description - potential contaminants	Method(s) of disposal	Applicable procedure or permit(s)
<b>Mechanical Construction</b>			
Draining non-waste water piping systems	Rust preventative, algaecide, Chlorine (2 ppm or less), other chemical products, and:	Accumulate, characterize, and dispose of as liquid hazardous waste when appropriate	SBMS, EM Subject Area: Hazardous and Mixed Waste Management
		Sewage Treatment Plant (STP) or Process Waste Treatment Complex (PWTC)	Variance required SBMS, EM Subject Area: Wastewater, Managing
	(waters exhibiting high temperature shall not be allowed to enter storm drains or surface water)	or discharge to upland area in a manner that prevents erosion (when deemed acceptable)	General Permit for Storm Water Discharges from Construction Activities (TNR10-0000), Project Storm Water Pollution Prevention Plan
	(waters exhibiting high temperature shall not be allowed to enter storm drains or surface water)	or, if chlorine is known to be the only contaminant, discharge to storm drain system	Field verification of successful de-chlorination is required, ORNL Site Wide NPDES Permit (TN0002941)

**Notes:** Rust preventative & algaecide are considered non-hazardous at typical concentrations utilized in cooling water and other closed loop systems. Negative impacts to aquatic resources are possible, however, and care shall be taken to prevent release to surface waters. Chlorine is typically absent from existing systems other than potable or process water (i.e. chilled water, etc)

Work Activity	Waste water description - potential contaminants	Method(s) of disposal	Applicable procedure or permit(s)
<b>Civil Construction</b>			
De-watering excavations	Sediment, suspended solids, chemical or radiological contaminants (previously existing or due to construction activities)	Filtration, discharge to STP or PWTC	Variance required  SBMS, EM Subject Areas: Wastewater, Managing;  Hazardous & Mixed Waste Management; Managing PCB Waste
		Or, Filtration and discharge to vegetated upland areas taking care to ensure that pump intake does not agitate water within the excavation, discharging to upland areas through filtration and in a manner that prevents erosion	By approval of Construction Field Representative and/or Environmental Protection  General Permit for Storm Water Discharges from Construction Activities (TNR10-0000), Project Storm Water Pollution Prevention Plan

**Notes:** Excavations associated with construction or maintenance of potable water lines or other liquid-carrying pipelines may present with chlorine or other potential contaminants which must be addressed on a case by case basis. The presence of regulated contaminants in excavation water or adjacent soils requires investigation by EP Staff prior to disposition.

Work Activity	Waste water description - potential contaminants	Method(s) of disposal	Applicable procedure or permit(s)
<b>Civil Construction</b>			
Cleaning tools	Moderate alkalinity, Chlorine (2 ppm or less), suspended solids	Discharge to STP, PWTC,	Variance required  SBMS, EM Subject Area: Wastewater, Managing.
		or upland areas, followed up by removal of cured concrete residues  cement-contaminated water shall not be released into storm drains or surface water, or runoff otherwise allowed beyond the construction site boundaries	By approval of Construction Field Representative and/or Environmental Protection
Pressure washing surfaces	Chlorine (2 ppm or less), suspended solids	Discharge to STP	Variance required  SBMS, EM Subject Area: Wastewater, Managing.
		or upland areas, collect/filter prior to entering aquatic features	(TNR10-0000), Project SWPPP
<p><b>Notes: No detergent or other cleaning agent allowed where runoff may reach aquatic features!</b> Chlorine typically absent from tank-stored water and/or lost during use due to agitation, exposure to sunlight and wind. Prevent contamination of storm water runoff or other surface water sources due to contact with uncured cement and/or other suspended solids</p>			



Stormwater Pollution Prevention Plan (SWPPP)  
 Craft Resources Support Facility Project

<b>Work Activity</b>	<b>Waste water description - potential contaminants</b>	<b>Method(s) of disposal</b>	<b>Applicable procedure or permit(s)</b>
<b>Civil Construction</b>			

Concrete cutting blade coolant/dust suppression	Moderate alkalinity, Chlorine (2 ppm or less), suspended solids	Discharge to STP or PWTC	Variance required SBMS, EM Subject Area: Wastewater, Managing.
		or to upland areas, collect/filter prior to entering aquatic features	(TNR10-0000), Project SWPPP
Concrete cutting blade coolant/dust suppression	Moderate alkalinity, Chlorine (2 ppm or less), suspended solids	Discharge to STP or PWTC	Variance required SBMS, EM Subject Area: Wastewater, Managing.
		or to upland areas, collect/filter prior to entering aquatic features	(TNR10-0000), Project SWPPP
General dust suppression	Chlorine (2 ppm or less)	Discharge to upland areas, collect/filter prior to entering aquatic features	

**Notes:** Chlorine typically lost during water use due to agitation, exposure to sunlight and wind, depending upon volumes and flow rates. Monitor runoff and treat discharge as necessary to remove chlorine and/or suspended solids. Prevent runoff to storm drains or surface water if pH is determined to be above 8.5

## **Appendix E – Site Maps and Drawings**



## Appendix F – Inspection Forms

Refer to: [http://tdec.tn.gov/etdec/DownloadFile.aspx?row\\_id=CN-1173](http://tdec.tn.gov/etdec/DownloadFile.aspx?row_id=CN-1173)

## **Appendix G – Delegation of Authority Form**

Delegation of Authority

I, \_\_\_\_\_ (name), hereby designate the person or specifically described position below to be a duly authorized representative for the purpose of overseeing compliance with environmental requirements, including the Construction General Permit, at the \_\_\_\_\_ construction site. The designee is authorized to sign any reports, storm water pollution prevention plans and all other documents required by the permit.

\_\_\_\_\_ (name of person or position)  
\_\_\_\_\_ (company)  
\_\_\_\_\_ (address)  
\_\_\_\_\_ (city, state, zip)  
\_\_\_\_\_ (phone)

By signing this authorization, I confirm that I meet the requirements to make such a designation as set forth in Appendix I of EPA's Construction General Permit (CGP), and that the designee above meets the definition of a "duly authorized representative" as set forth in Appendix I.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

**Name:** \_\_\_\_\_

**Company:** \_\_\_\_\_

**Title:** \_\_\_\_\_

**Signature:** \_\_\_\_\_

**Date:** \_\_\_\_\_

## Managing Construction Wastewaters

For the purposes of these guidelines, when a construction process utilizes water from any source, water that is not used up in the process (or lost by evaporation) should be considered to be wastewater.

Typical construction wastewaters include those listed below, although particular circumstances and/or site specific conditions may alter the nature of these wastewaters, or result in the generation of non-typical wastewaters not addressed under these guidelines. When project planners determine that non-typical wastewaters may be generated or discover that they have been, consultation with an Environmental Compliance Representative should take place as soon as practicable.

### **Mechanical construction activities:**

- M1. Pipeline draining
- M2. Pipeline flushing
- M3. Pipeline hydrostatic testing
- M4. Pipeline disinfection

### **Civil construction activities:**

- C1. Removing accumulated storm water from trenches & other excavations or structures
- C2. Flushing concrete truck chute and/or cleaning associated tools and equipment
- C3. Water from high pressure washing and/or hosing down surfaces

### **Demolition activities:**

- D1. Asbestos worker shower facilities & tool decontamination
- D2. Concrete cutting systems (blade coolant/dust suppression water)
- D3. General dust suppression water

## Managing Construction Wastewaters

Work Activity	Wastewater description - potential contaminants	Method(s) of disposal	Applicable procedure or permit(s)
<b>Table M Mechanical Construction Activities</b>			
<b>M1</b> - Draining non-wastewater piping systems	Rust preventative, algaecide, Chlorine (2 ppm or less), other chemical products, etc.	Accumulate, characterize, and dispose of as liquid hazardous waste when appropriate	SBMS, EM Subject Area: Environmental Management of Research and Operations – Procedure – “Managing Waste and Excess Materials”
		Sewage Treatment Plant (STP) or Process Waste Treatment Complex (PWTC)	Variance required  SBMS, EM Subject Area: Environmental Management of Research and Operations – Procedure – “Clean Water Act”
	(waters exhibiting high temperature shall not be allowed to enter storm drains or surface water)	or discharge to upland area in a manner that prevents erosion (when approved by the Company)	General Permit for Storm Water Discharges from Construction Activities (TNR10-0000), Project Storm Water Pollution Prevention Plan
	(waters exhibiting high temperature shall not be allowed to enter storm drains or surface water)	or, if chlorine is known to be the only contaminant, discharge to storm drain system	Field verification of successful de-chlorination is required, ORNL Site Wide NPDES Permit (TN0002941)
<p><b>Notes:</b> Rust preventative &amp; algaecide are considered non-hazardous at typical concentrations utilized in cooling water and other closed loop systems. Negative impacts to aquatic resources are possible, however, and care shall be taken to prevent release to surface waters. Chlorine is typically absent from existing systems other than potable or process water (i.e. chilled water, etc)</p>			



### Managing Construction Wastewaters

Work Activity	Wastewater description - potential contaminants	Method(s) of disposal	Applicable procedure or permit(s)
<b>Table M Mechanical Construction Activities</b>			
<b>M2</b> - Flush non-wastewater piping systems	Chlorine (2 ppm or less), nominal sediment, scale, etc.	STP or PWTC	Variance required  SBMS, EM Subject Area: Environmental Management of Research and Operations – Procedure – “Clean Water Act”
		Or discharge to upland areas in a manner that prevents erosion – chemical treatment of discharge to remove chlorine – filtration as necessary to remove sediment/scale	General Permit for Storm Water Discharges from Construction Activities (TNR10-0000), Project Storm Water Pollution Prevention Plan
		or, if chlorine is known to be the only contaminant, discharge to storm drain system	Field verification of successful de-chlorination is required, ORNL Site Wide NPDES Permit (TN0002941)
<b>Notes:</b>			

### Managing Construction Wastewaters

Work Activity	Wastewater description - potential contaminants	Method(s) of disposal	Applicable procedure or permit(s)
<b>Table M Mechanical Construction Activities</b>			
M3 - Hydrostatic testing	Chlorine (2 ppm or less)	STP or PWTC	Variance required  SBMS, EM Subject Area: Environmental Management of Research and Operations – Procedure – “Clean Water Act”
		or discharge to upland areas in a manner that prevents erosion – chemical treatment of discharge to remove chlorine	
		or, if chlorine is known to be the only contaminant, discharge to storm drain system	Field verification of successful de-chlorination is required, ORNL Site Wide NPDES Permit (TN0002941)
<b>Notes:</b>			

### Managing Construction Wastewaters

Work Activity	Wastewater description - potential contaminants	Method(s) of disposal	Applicable procedure or permit(s)
<b>Table M Mechanical Construction Activities</b>			
M4 - Disinfect piping systems	Chlorine (50 – 200+ ppm)	Discharge to STP, PWTC (Collection and pre-treatment may be required)	Variance required SBMS, EM Subject Area: Environmental Management of Research and Operations – Procedure – “Clean Water Act”
		or to treatment basin via suitable and effective de-chlorination system – monitor discharge and basin overflow for chlorine, pH, temperature, turbidity, etc. and halt or modify operations as needed	Field verification of successful de-chlorination is required, ORNL Site Wide NPDES Permit (TN0002941)
<p><b>Notes:</b> Heavily chlorinated water is extremely toxic to aquatic systems; exceptional care shall be taken to prevent release of untreated or insufficiently treated water to the environment. Overflow from treatment basin shall be released onto a suitable upland area (or storm drain system, if necessary) only after verification of acceptable de-chlorination and other water quality parameters</p>			

## Managing Construction Wastewaters

Work Activity	Wastewater description - potential contaminants	Method(s) of disposal	Applicable procedure or permit(s)
<b>Table C Civil Construction Activities</b>			
C1 - Dewatering excavations	Sediment, suspended solids, chemical or radiological contaminants (previously existing or due to construction activities)	Filtration, discharge to STP or PWTC	Variance required  SBMS, EM Subject Areas: Environmental Management of Research and Operations – Procedure – “Clean Water Act” & “Managing Waste and Excess Materials”
		Or, Filtration and discharge to vegetated upland areas taking care to ensure that pump intake does not agitate water within the excavation, discharging to upland areas through filtration and in a manner that prevents erosion	By approval of Construction Field Representative (CFR) and FDD Environmental Representative (ER)  General Permit for Storm Water Discharges from Construction Activities (TNR10-0000), Project Storm Water Pollution Prevention Plan
<p><b>Notes:</b> Excavations associated with construction or maintenance of potable water lines or other liquid-carrying pipelines may present with chlorine or other potential contaminants which must be addressed on a case by case basis. The presence of regulated contaminants in excavation water or adjacent soils requires investigation by EP Staff prior to disposition.</p>			

## Managing Construction Wastewaters

Work Activity	Wastewater description - potential contaminants	Method(s) of disposal	Applicable procedure or permit(s)
<b>Table C Civil Construction Activities</b>			
<b>C2</b> - Flushing concrete truck chute/cleaning tools	Moderate alkalinity, Chlorine (2 ppm or less), suspended solids	Discharge to STP, PWTC,	Variance required  SBMS, EM Subject Area: Environmental Management of Research and Operations – Procedure – “Clean Water Act”
		or upland areas, followed up by removal of cured concrete residues  cement-contaminated water shall not be released into storm drains or surface water, or runoff otherwise allowed beyond the construction site boundaries	By approval of Construction Field Representative (CFR) and FDD Environmental Representative (ER)
<b>C3</b> - Pressure washing surfaces	Chlorine (2 ppm or less), suspended solids	Discharge to STP	Variance required  SBMS, EM Subject Area: Environmental Management of Research and Operations – Procedure – “Clean Water Act”
		or upland areas, collect/filter prior to entering aquatic features	(TNR10-0000), Project SWPPP
<p><b>Notes:</b> No detergent or other cleaning agent allowed where runoff may reach aquatic features! Chlorine typically absent from tank-stored water and/or lost during use due to agitation, exposure to sunlight and wind. Prevent contamination of storm water runoff or other surface water sources due to contact with uncured cement and/or other suspended solids</p>			

## Managing Construction Wastewaters

Work Activity	Wastewater description - potential contaminants	Method(s) of disposal	Applicable procedure or permit(s)
<b>Table D Demolition Activities</b>			
<b>D1</b> - Asbestos worker showers & tool decontamination	Asbestos, Chlorine (2 ppm or less)	HEPA filtered (5 micron or better) & discharged to STP.	Variance required  SBMS, EM Subject Area: Environmental Management of Research and Operations – Procedure – “Clean Water Act”
<b>Notes:</b> Discharge permitted under NESHAP when HEPA filtered and disposed to Sewage Treatment Plant			
<b>D2</b> - Concrete cutting blade coolant/dust suppression	Moderate alkalinity, Chlorine (2 ppm or less), suspended solids	Discharge to STP or PWTC	Variance required  SBMS, EM Subject Area: Environmental Management of Research and Operations – Procedure – “Clean Water Act”
		or to upland areas, collect/filter prior to entering aquatic features	(TNR10-0000), Project SWPPP
<b>D3</b> - General dust suppression	Chlorine (2 ppm or less)	Discharge to upland areas, collect/filter prior to entering aquatic features	
<b>Notes:</b> Chlorine typically lost during water use due to agitation, exposure to sunlight and wind, depending upon volumes and flow rates. Monitor runoff and treat discharge as necessary to remove chlorine and/or suspended solids. Prevent runoff to storm drains or surface water if pH is determined to be above 8.5			

END OF SECTION 01 55 00.03

**SECTION 312270 - EROSION CONTROL**

## PART 1 - GENERAL

## 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this section.
- B. *Tennessee Erosion and Sediment Control Handbook*, Tennessee Department of Environment and Conservation, current edition (<http://tnstormwatertraining.org/>).

## 1.2 SUMMARY

- A. Section includes:
  - 1. Temporary control measures for slope protection, and
  - 2. Controls to reduce erosion, sedimentation, and water pollution through the use of erosion control devices

## 1.3 SUBMITTALS

- A. Silt fence: submit manufacturer's data and installation instructions for information.

## 1.4 QUALITY ASSURANCE

- A. Qualifications of competent person – provide at least one person familiar with types of materials being installed during execution of work to:
  - 1. Direct work performed under this section.
  - 2. Direct best methods for installation.
  - 3. Identify defective or damaged materials.
- B. Inspector: provide qualified inspector to inspect sediment and erosion control features during construction and operation. Inspector shall have completed the Tennessee Department of Environment and Conservation's "Fundamentals of Erosion Prevention and Sediment Control Level I" course and this certification must be current.

## 1.5 PROJECT CONDITIONS

- A. Coordinate temporary pollution control provisions with permanent erosion control features to assure economical, effective, and continuous erosion control throughout construction and post construction periods.

## PART 2 - PRODUCTS

### 2.1 MATERIALS

- A. Silt fences.
  - 1. Type A per *Tennessee Erosion and Sediment Control Handbook*.
  - 2. Type C per *Tennessee Erosion and Sediment Control Handbook*, Silt-Saver® Belted Silt Retention Fence – Type C, or approved equal.
  - 3. Wire Fence: Minimum 36 in. height, minimum 14-gage and maximum mesh spacing of 6". Use wire fence reinforcement with Type C silt fence per *Tennessee Erosion and Sediment Control Handbook*. Wire fence is not required for Silt-Saver® Belted Silt Retention Fence – Type C.
- B. Mulching material.
  - 1. Air-dry, clean, mildew- and seed-free salt hay or thrashed straw of wheat, rye, oats, or barley. Hay or chopped cornstalks are not acceptable.
- C. Staples.
  - 1. Minimum 11-gage, "U" shaped length of legs – minimum 6", crown width – 1", thickness – sufficient for soil penetration without undue distortion.
- D. Erosion Control Blankets.
  - 1. North American Green BioNet S75BN or Company approved equivalent.
- E. Straw bales.
  - 1. NOT ALLOWED FOR EROSION CONTROL USE.

## PART 3 - PRODUCTS

### 3.1 PREPARATION

- A. Coordinate general preparation with requirements on drawings and with the requirements in the *Tennessee Erosion and Sediment Control Handbook*.
- B. Site preparation: prepare site in accordance with good engineering practices for installation of surface erosion control features. Compact surface and remove and replace pockets of soft soil with compacted earth material to provide a consistently uniform and stable surface in accordance with Division 31 Section "Earthwork".



### 3.2 INSTALLATION/APPLICATION/ERECTION

#### A. General.

1. Utilize the *Tennessee Erosion and Sediment Control Handbook* for requirements on installation and erection. If there is conflict with information in this Section and the *Tennessee Erosion and Sediment Control Handbook*, the *Tennessee Erosion and Sediment Control Handbook* shall take precedence. Follow manufacturer's instruction when applicable.
2. Control surface water runoff on-site and provide temporary soil stabilization measures as required to prevent removal of soil by action of either water or wind, more commonly known as erosion. Protect land areas adjacent to work site from sedimentation by installation of erosion and sediment control measures. Provide, as a first step in construction operation, sediment basins and traps, perimeter barriers, and other measures intended to deter erosion and transport of sediment associated with construction activities before upslope land disturbance takes place.
3. Seed and mulch within 14 days of installation of earthen structures, such as dams, berms, and diversions.

#### B. Silt fences.

1. Type and locations of silt fences shall be as shown on the drawings.

#### C. Erosion Control Blankets.

1. Install blankets at locations shown on the plans.
2. Shape slope to be protected to required shape and grade and thoroughly compact after seedbed preparation. Remove rocks or clods over 1 ½ in. in diameter and sticks and other material that will prevent contact of excelsior matting with soil surface. Complete seeding and fertilizing activities in accordance with Division 32 Section "Seeding", prior to installing the blankets.
3. Unroll blankets in the direction of the flow of water with edges and ends butted snugly against each other. When unrolled, the netting shall be on top and the fibers in contact with the soil. The mats shall be anchored firmly to the soil with staples driven vertically into the ground and flush with the surface of the mats. On slopes flatter than 4H: 1V, staples shall be spaced no more than 5 ft apart on all edges and 1' apart at all joints and ends. On all slopes 4H: 1V or steeper or in depressions defined by the grading plans, three rows of staples spaced 2½ to 3' apart shall be placed and staples shall be spaced not more than 6" apart at all joints and ends. The spacing of staples may be modified to fit conditions as directed by the Company. Comply with all Manufacturer installation requirements also.

#### D. Diversion dikes.

1. Prepare the base of diversion dike so that a good bond is obtained between original ground and placed fill. Remove vegetation and thoroughly disk base before placement of fill.
2. Minimum constructed cross section shall meet design requirements. Top of constructed dike shall not be lower than design elevation plus specified amount of settlement.
3. Machine compact all dikes and have positive drainage to an outlet.
4. Convey diverted clean runoff from a protected or stabilized area directly to undisturbed stabilized area or to grade stabilization structure.
5. Convey diverted sediment laden runoff from disturbed or exposed upland areas to sediment basin or to protected area.

6. Stabilization shall be as indicated on plans. Lining shall extend upslope on dike for a height of 8” (measured vertically from the upslope toe) and extend at least 7’ upslope from the upslope toes.
- E. Diversion swales.
1. Remove trees, brush, stumps, obstructions, and other objectionable material and dispose of so as not to interfere with proper functioning of swale.
  2. Excavate swale or shape to line, grade, and cross section as shown on drawings and free of bank projections or other irregularities which will impede normal flow.
  3. Compact fills as needed to prevent settlement that would cause damage in completed swale.
  4. Spread or dispose of earth removed and not needed in construction so that it will not interfere with functioning of swale.
  5. Perimeter swales shall have a minimum grade of 1%. Bottom shall be level.
  6. Convey diverted clean runoff from a protected or stabilized area directly to an undisturbed stabilized area or to grade stabilization structure.
  7. Convey diverted sediment laden runoff from disturbed or exposed upland area to sediment basin or to protected area.
  8. Stabilization shall be as indicated on plans. Extend lining across bottom and up both sides of channel a height of at least 8” vertically above bottom.

### 3.3 MAINTENANCE

- A. Inspection.
1. Inspect erosion and sediment control measures prior to expected storm events (or series of storm events such as intermittent showers over one or more days), within 24 hours after every rainfall that exceeds 0.5 in. of precipitation in 24 hours, and at least twice every calendar week and no more than 72 hours apart.
  2. Document each inspection using the checklist provided in Attachment 1 of Specification Section 01 55 00-Environmental Protection.
- B. Repair/Replace.
1. Repair or replace inadequate sediment and erosion control measures or sediment and erosion control measures in disrepair before the next rain event, but no later than seven days after the need is identified.
- C. Removal of temporary sediment and erosion control measures.
1. Maintain silt fences and straw bale barriers until upslope soils are permanently stabilized.
  2. Obtain approval from Company prior to removal of temporary sediment and erosion control measures. Sediment shall be returned to project site, at locations directed by the Company.

END OF SECTION 31 22 70

## SECTION 01 74 19 – DEMOLITION WASTE MANAGEMENT AND DISPOSAL

### PART 1 - GENERAL

#### 1.1 ATTACHMENTS

- A. Attachment 1, Oak Ridge Reservation Master Profile S-010, Rev 3, Construction/ Demolition Waste, Effective 10/01/2012.
- B. Attachment 2, Oak Ridge Reservation Master Profile S-050, Rev 3, Spoil Materials, Effective 10/01/2012.
- C. Attachment 3, Oak Ridge Reservation Master Profile S-040: Special Waste, UCOR-5112, Effective May 2018.
- D. Attachment 4, Landfill Prohibited Waste Items.
- E. Attachment 5, Prohibited Items for Metal Recycle

#### 1.2 DEFINITIONS

- A. Resource Conservation and Recovery Act (RCRA) hazardous waste: any discarded material that is not excluded by 40 CFR Part 261.4(a) and that is listed in 40 CFR Subpart D or exhibits any of the characteristics identified in 40 CFR 261 Subpart C.
- B. Sanitary waste: waste generated by offices, cafeteria, medical facilities and laboratories, and includes textile products (personal protective equipment [PPE], coveralls, cotton items, carpet, etc.).
- C. Special waste: wastes that are either difficult or dangerous to manage such as friable or non-friable asbestos, empty aerosol or paint containers, petroleum contaminated soil, bulk product polychlorinated biphenyl (PCB) waste, PCB remediation wastes, etc.
- D. Construction waste: building and site improvement materials and other solid waste resulting from construction, remodeling, renovation, or repair operations. Construction waste includes packaging.
- E. Demolition waste: building and site improvement materials resulting from demolition or selective demolition operations.
- F. Disposal: removal off-site of demolition and construction waste and subsequent recycling, reuse, or deposit in landfill or incinerator acceptable to authorities having jurisdiction.
- G. Recycle: recovery of demolition waste (i.e., metals, electronics) for subsequent processing in preparation for reuse.

- H. The PCB waste: waste subject to PCB disposal requirements defined in Toxic Substances Control Act (TSCA) of 1976 as defined in 40 CFR 761.

### 1.3 TRAINING

- A. The Sellers, their subcontractors and all employees who use hazardous materials and may generate or handle a hazardous waste, must provide evidence of having received RCRA Hazardous Waste Awareness Training and annual refresher training as required by 40 CFR 265.16 and 262.34 prior to starting any work involving these items.
- B. Prior to the transport of friable asbestos, truck drivers shall provide evidence of a valid medical card and Class-A Commercial Driver's License (CDL) with HazMat endorsement.

### 1.4 REQUIREMENTS TO COMPLY WITH APPLICABLE LAWS AND REGULATIONS

- A. The Seller shall provide written proof of registration, licensing, insurance, or other requirements upon request. It is the Seller's responsibility to ascertain and comply with all applicable federal, state, local and multi-jurisdictional laws, ordinances, and regulations pertaining to the registration, licensing, handling, transportation, packaging, management, processing, resale and disposal of these materials under this contract. These federal, state, and local laws include but are not limited to the Clean Air Act; the TSCA; the Atomic Energy Act; the Comprehensive Environmental Response, Compensation and Liability Act; the Hazardous Materials Transportation Regulations; the Federal Motor Carrier Safety Regulations; the TN Motor Vehicle Laws Annotated; the Emergency Planning and Community Right-to-Know Act, 40 CFR 279; and TDEC (Tennessee Department of Environment and Conservation) Rule Chapter 1200-1-11-.11.

## PART 2 - WASTE MANAGEMENT

### 2.1 WASTE MANAGEMENT REQUIREMENTS

- A. The Seller removal of Oak Ridge Reservation (ORR) landfill prohibited wastes must precede all excavation/demolition work.
- B. Items prohibited from disposal at the ORR landfill must be removed from the buildings and affected areas prior to excavation/demolition. Instructions for managing the ORR landfill prohibited wastes are provided in Part 2.2 of this section.
- C. The Seller is responsible for gross segregation of all waste items into the following potential categories as listed:

1. **Special (asbestos and respiratory hazard) waste** – special wastes are wastes that are either difficult or dangerous to manage such as friable or non-friable asbestos, respiratory hazards (includes fiberglass with loose fibers), empty aerosol or paint containers, petroleum contaminated soil, etc. Care must be taken to avoid mixing waste type, as some disposal requirements vary from one waste type to another. Coordinate the removal of these materials with the Waste Management (WM) project lead. Attachment 3 provides the ORR landfill waste acceptance criteria for special waste.
2. **Universal wastes, Hazardous Wastes** – mercury thermostats, batteries, and lamps/bulbs and ballasts, oils and refrigerants will be recycled by the Company’s approved vendor. The Company will provide containers and instructions for the Seller accumulation of these items. Other waste items such as fuses, capacitors (liquid-filled), smoke detectors (with circuit boards and radiological sources), and door closures (with oil reservoirs) should be segregated into Company-provided containers. No liquids, refrigerants or oils can go to the landfill, metals or electronics recycle vendors.
3. **Metal Recycle** – all scrap metal must be collected for the Company’s approved metal recycle vendor. Work through the Company WM project lead will coordinate delivery and pickup of recycle metal containers. Both ferrous and nonferrous metals can be collected in the same secure container. Brass, bronze, and lead should be collected separately. See Attachment 5 for a list of prohibited items.
4. **Electronics Recycle** - Printed circuit boards and small electronics should be collected in fiber drums. Copper wire should be collected separately. The Company will provide the accumulation containers. Larger electronics such as monitors, computers, printers, and instrumentation should be palletized, shrink-wrapped and delivered to the ORNL Property Sales facility once the Company WM lead has entered the items into the ORNL database and Rad surveys has been performed.
5. **Salvageable materials** – all excess property and salvaged materials must be processed by the Company’s Excess Property Group before leaving the site (this includes palletized electronics for recycle), and the Company will provide assistance with this process. It is the Seller’s responsibility to protect the property from pilferage and damage until it has been transported to the excess property/salvage area.
6. **Radiological-contaminated wastes streams** – all radiological-contaminated materials excluding Naturally Occurring Radioactive Materials (NORM). *All packaging of radiological wastes will be done in the Company-provided containers. Waste packaging will be performed by the Seller under the supervision of the Company.*
7. **Sanitary waste** – sanitary wastes are wastes generated by offices, cafeteria, medical facilities and laboratories, and include textile products (PPE, coveralls, cotton items, carpet, etc.). Generally, these wastes are covered under the Sanitary

Waste profile for the landfill and are typically disposed of by the Company. The Seller shall bag garbage and deposit daily in the Company's dumpster.

**NOTE:** Where feasible, collect ALUMINUM CANS, PAPER, and CARDBOARD for RECYCLE. The Company will provide collection containers.

8. **Construction/Demolition debris** – these are wastes that result from construction, remodeling, repair and demolition of structures, and from road building or repair. These wastes include lumber, plastic, siding, paneling, flooring, windows, doors, and miscellaneous building demolition materials, brick, concrete, masonry materials, polyvinyl chloride (PVC) material, sheetrock/gypsum board, roofing materials, siding, paneling, flooring, and miscellaneous metals associated with demolition, windows, door, and miscellaneous building demolition materials. Attachment 1 provides the ORR landfill waste acceptance criteria for construction debris. Construction waste, as described in Section 1.2.C, consists of excess new materials (i.e. packaging) brought into the project by the Seller. It is the responsibility of the Seller to remove these materials because they are not eligible for disposition in the ORR landfill.
  9. **Spoil materials** – uncontaminated excavated earthen-like materials such as soil, rock, gravel, concrete (without rebar), asphalt and clay material. Spoil materials will be sent to either the ORR landfill off Clear Spring Road or the on-site spoil facility, Copper Ridge. The Company will provide Seller with options for disposition of spoils at the project pre-bid kickoff meeting. Attachment 2 provides the ORR landfill waste acceptance criteria for spoil materials. Waste acceptance criteria for the Copper Ridge facility will be consistent with the ORR landfill requirements. The general requirements for loading and transportation of spoil materials at the Oak Ridge National Laboratory (ORNL) project site are outlined in Part 2.3.B of this section.
  10. **Prohibited items** – special handling requirements for managing prohibited items is provided in Part 2.2 of this section and a complete list of these items for the ORR landfill is provided in Attachment 4 of this section. The Company will ensure the proper management and disposal of these wastes and should be notified whenever items on the list are generated.
- D. The Seller is responsible for ensuring that waste is sized so that it does not get stuck in transportation vehicles. Bulky items, i.e. pipe, concrete foundations, large storage tanks, structural steel, etc., must be less than 8' in length in order to permit safe handling with ORR landfill equipment.
  - E. If unexpected radiological materials are encountered during demolition, the Company will be responsible for the overall management and direction of the Seller's packaging operations on radioactive waste. The Company will manifest radioactive wastes, RCRA Hazardous, and/or PCB waste. Waste from cleanup of spills may require being managed as a special or a hazardous waste. The Company will make this determination.
  - F. Instructions for managing ORR landfill eligible waste and the special handling requirements associated with each category of eligible wastes are provided in Part 2.3 of this section.

- G. The Company will perform the duties of the generator on behalf of the Seller. The Company's EPA identification (ID) number will be listed on all manifests and records for any hazardous waste being sent off-site for disposal.
- H. Any materials (solvents, paint, chemicals, etc.) brought on-site by the Seller will be removed by the Seller at the completion of the project INCLUDING EMPTY CONTAINERS, AND PARTIALLY FULL CONTAINERS.
- I. The Company will assign and manage areas for interim storage of RCRA/TSCA waste-containing drums, universal waste, and recyclable materials.
- J. When a RCRA 90-day area has been established within the project boundary, the Company will be responsible for providing any necessary secondary containment (if applicable), and will provide covers/tarps for all drums within the 90-day area if necessary. If roll off or other open top containers are used for RCRA waste, the Company will provide the necessary tarps.
- K. When a RCRA 90-day area has been established within the project boundary, the Seller shall ensure that all covers/tarps (with no holes, tears, or rips present) are in place over drums/small containers staged in the area. For roll off or larger open top containers, the Seller shall ensure the tarps are installed properly and any holes/rips in the tarps are repaired in-place. These actions shall be accomplished at the end of each work day and prior to any rain event. The Seller shall also ensure that secondary containment does not contain any liquids. The Seller shall promptly notify the Company of any observations of liquids in secondary containment.
- L. The Seller shall provide containers and/or transport vehicles for ORR landfill eligible waste.
- M. The Seller shall ensure the provision of respirators and PPE for personnel transporting Special Wastes (friable and airborne hazards) to the ORR landfill.
- N. The Seller shall provide all of the materials (including bulk and non-bulk containers) required for the packaging, labeling, marking, and transportation of non-rad/non-hazardous wastes (including special wastes) to the ORR landfill in conformance with Department of Transportation (DOT) standards.

## 2.2 MANAGING ORR LANDFILL PROHIBITED WASTES

- A. Landfill prohibited wastes are identified in Attachment 4 of this section.
- B. The Seller shall request a radiological survey prior to attaching labels and green tags on all containers.
- C. Free liquids.
  - 1. Pumps, motors and HVAC units shall have plugs removed and water, oil and refrigerants drained prior to disposal. Hoses shall be cut and drained. All piping (e.g. fire protection and chilled water systems) shall be drained of free liquids.

2. Collect in containers provided by the Company. Always have 3” to 5” of empty space above volume of material when using drums for packing.
3. Provide identification of material added to containers (using log sheets) to permit safe opening, storage and handling by the Company.
4. Identify the type of waste and the date the container was filled and request survey of the container before removing it from the building.
5. Deliver green tagged containers to the Company WM lead for proper labeling and interim storage.

## 2.3 CONTROL AND DISPOSAL OF ORR LANDFILL ELIGIBLE WASTE

### A. Construction/Demolition (C/D) waste.

1. Remove C/D waste from the buildings and segregate from other wastes whenever possible.
2. The C/D wastes are wastes, typically other than special wastes, resulting from construction, remodeling, repair and demolition of structures, and from road construction and repair including, but not limited to:
  - a. Bricks.
  - b. Concrete and other masonry materials.
  - c. Soil.
  - d. Rock.
  - e. Lumber.
  - f. Road spoils.
  - g. Rebar.
  - h. Paving materials.
  - i. Vitrified clay materials (tile, pipe, block, etc.).
  - j. The PVC pipe.
  - k. Polyethylene sheeting.
  - l. Sheetrock/Gypsum board.
  - m. Roofing materials.
  - n. Styrofoam and neoprene insulation materials.
  - o. Building siding materials.
  - p. Paneling.
  - q. Flooring.
  - r. Miscellaneous metals associated with building demolition.
  - s. Window and door glass associated with building demolition.
3. Bulk handling and transport of C/D wastes:
  - a. Size and load the waste into the waste delivery vehicles in such a manner to prevent the waste from becoming lodged in waste delivery vehicles and containers (i.e., dump truck beds, dump trailers, roll-off containers) during



- the dumping operations. The Seller shall be responsible for safely removing and clearing lodged materials from the waste delivery vehicles/containers and all associated costs.
- b. Waste delivery vehicles shall not be leaking fluids.
  - c. It is recommended that wastes be delivered in vehicles that are self-dumping/unloading. If it is absolutely necessary to deliver bulky and containerized wastes on flatbed trucks or trailers, the waste generator shall minimize the generation of such containerized and bulky wastes and shall perform advance coordination with the Landfill Operations Manager for the unloading.
  - d. All containers intended for disposal must be greater than 90% full (less than 10% void) except for 55 gallon or smaller containers, which can be safely compacted with landfill equipment.
4. Refer to Master Waste Profiles S-010 for C/D Waste, Attachment 1.
- B. Spoil material waste.
1. Remove spoil material and segregate from other wastes whenever possible.
  2. Spoil materials are earthen clean/non-contaminated materials, typically other than special wastes, resulting from construction, and demolition of structures, and from road construction and repair including, but not limited to:
    - a. Gravel.
    - b. Soil.
    - c. Rock.
    - d. Concrete (no rebar)
    - e. Brick.
    - f. Cinder/Concrete blocks.
    - g. Clay products (tile, pipe, etc.).
    - h. Asphalt pavement.
  3. Bulk handling and transport of spoil material wastes:
    - a. Size and load the waste into the waste delivery vehicles in such a manner to prevent the waste from becoming lodged in waste delivery vehicles and containers (i.e., dump truck beds, dump trailers, roll-off containers) during the dumping operations. The Seller shall be responsible for safely removing and clearing lodged materials from the waste delivery vehicles/containers and all associated costs.
    - b. Waste delivery vehicles shall not be leaking fluids.
    - c. It is recommended that wastes be delivered in vehicles that are self-dumping/unloading. If it is absolutely necessary to deliver bulky and containerized wastes on flatbed trucks or trailers, the waste generator shall minimize the generation of such containerized and bulky wastes and shall perform advance coordination with the Landfill Operations Manager for the unloading.

- d. All containers intended for disposal must be greater than 90% full (less than 10% void) except for 55 gallon or smaller containers, which can be safely compacted with landfill equipment.
  - e. Refer to Master Waste Profiles S-050 (Attachment 2) for disposition of spoil material waste at the ORR landfill.
  - f. Specific instructions dealing with waste identification, transportation and logistics will be provided to subcontractor's field supervisor and truck drivers in a field briefing prior to start of work.
- C. Category I non-friable asbestos (refer to Attachment 3; Master Waste Profile S-040):
1. The prohibited items for C/D waste, with the exception of Category I non-friable asbestos, still apply for this category (see Attachment 4 of this section for a comprehensive listing of landfill prohibited items).
  2. Bulk handling and transport of Category I non-friable material (refer to Attachment 3; Master Waste Profile S-040, Attachment 3-3 for specific packaging instructions) is permissible as follows:
    - a. Non-Dedicated use dump trucks, inter-modals, roll-off containers, and similar transport containers requires entire load be wrapped with a single layer (minimum) of 6-mil thick plastic sheeting no later than the end of each work shift.
    - b. Dedicated use dump trucks, inter-modals, roll-off containers, and similar transport containers do not require plastic sheeting if the containers are dust tight and leak tight via closed gasket doors and closed tarps or metal covers/lids.
    - c. Bundled/Stacked transite panels require each bundle to be wrapped, closed, and sealed in a single (minimum) layer of 6-mil thick plastic sheeting no later than the end of each work shift.
    - d. The label or tag describing the contents of each container must include the following words to meet landfill acceptance requirements, and must meet the current OSHA requirements for labeling:

**Non-friable Asbestos**  
**DANGER**  
CONTAINS ASBESTOS FIBERS  
AVOID CREATING DUST  
**CANCER AND LUNG DISEASE HAZARD**

- e. The packaged wastes shall be transported to the landfill in such a manner to prevent airborne releases or the loss of the waste.
  - f. Unloading shall be done carefully to keep the materials in the wrapping as much as possible and to maintain the non-friability of the asbestos containing material (ACM).
3. Respiratory protection is required when personnel are within 100' of disposal activities of these wastes.

4. Provide verbal notification and coordination/concurrence with the WM project lead at least one working day prior to the delivery of these wastes.
  5. Return copies of date-stamped Universal Control Number (UCN)-2109 and original Asbestos Work Authorization (AWA) form to the Asbestos Program Manager (APM).
- D. Regulated ACM (RACM) includes friable asbestos: Category I non-friable ACM that has become friable or has become subjected to sanding, grinding, etc.; and Category II non-friable that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of the demolition or renovation operations (refer to Attachment 3; Master Waste Profile S-040, Attachment 3-1 for definitions).
1. Bulk handling and transport of RACM (refer to Attachment 3; Master Waste Profile S-040, Attachment 3-2 for specific packaging instructions) as follows:
    - a. Dump trucks, flatbed trucks, roll-bins, or similar vehicles shall be double-lined with 6-mil thick plastic sheets.
    - b. Place waste in the lined vehicle/container and the loose edges of the plastic sheets shall be lapped over the top of the waste and sealed.
    - c. Label the containers or wrapped friable ACM with the following warning labels in accordance with 29 CFR 1926.1101:

**US DOE, ORNL, Bldg. No. \_\_\_\_**  
**DANGER**  
**CONTAINS ASBESTOS FIBERS**  
AVOID CREATING DUST  
**CANCER AND LUNG DISEASE HAZARD**
    - d. The packaged wastes shall be transported to the landfill in fully enclosed space or fully covered by a secure tarpaulin to prevent airborne releases or the loss of the waste.
    - e. Unloading shall be done carefully to keep the materials in the wrapping.
  2. Respiratory protection is required when personnel are within 100' of asbestos containing waste material (ACWM) disposal activities.
  3. Return copies of Bill of Lading, Waste Shipment Record (WSR), date-stamped UCN-2109 forms along with original AWA form to the APM.
- E. Beryllium-Contaminated waste: Beryllium Oxide (BeO) waste, including wood, paper, clothing, piping, metal, equipment, and demolition material that is contaminated with BeO.
1. Package waste in tightly sealed, double-bagged, 6-mil thick plastic bags, double-bagged 6-mil thick plastic sheeting, fiber drums, metal drums or plywood boxes.
  2. Each package shall be labeled (or equivalent) as shown below to meet landfill acceptance requirements, and must meet the current OSHA requirements for labeling [“Danger” is in white on a red oval, which is imposed on a larger white

oval on a place rectangle. The text is black on a white background. The border is black.]:

**DANGER**  
**CONTAMINATED WITH BERYLLIUM, DO**  
**NOT REMOVE DUST BY BLOWING OR**  
**SHAKING**  
**CANCER AND LUNG DISEASE HAZARD**

3. Waste shipment shall be accompanied by a UCN-2109 form and a *Generator's/Shipper's Log for Beryllium Oxide Removal and Disposal*, to be completed by the Company for each waste load.
  4. If the waste is bagged, it shall be transported in a fully enclosed space or fully covered by a secured tarpaulin.
  5. Respiratory protection is required when personnel are within 100' of disposal activities of these wastes.
- F. Respiratory Hazard (RH) waste includes fiberglass with loose fibers, refractory ceramic fibers, mineral wools, slag wools, rock wools, and other manmade fiber materials and silica. (Refer to Attachment 14 of the Master Waste Profile S-040 Rev. 6.)
1. These materials may be wet down prior to removal activities to reduce concentration of airborne fibers and materials for the protection of employees. Wastes containing these materials that do not create potential respiratory hazards (for example: solid fiberglass items, wool fibers that are bound in asphalt roofing shingles) will not be subject to the following requirements.
  2. These wastes will be packaged and tightly sealed in single bagged 6-mil thick plastic bags, single wrapped in 6-mil thick plastic sheets (piping, equipment, etc.), fiber drums, metal drums, plywood boxes or metal boxes.
  3. No specific labeling requirements for RH waste.
  4. The packaged wastes will be transported to the landfill in such a manner to prevent airborne release or loss of the waste.
  5. All handling and unloading shall be performed carefully to avoid rupturing of the packaging and shall be the responsibility of the waste generator/transporter. If assistance is needed, such as with the all-terrain fork truck, the generator must verbally coordinate this with the Landfill Operations Manager (865-574-6905) at least one working day in advance of the delivery. The landfill can assist, but must have prior notification from the Company.

#### 2.4 FRIABLE ASBESTOS TRANSPORTATION REQUIREMENTS

- A. Notify the WM project lead one working day prior to scheduled shipping date to arrange deliveries of RACM to the ORR landfill.

- B. Provide the following information:
1. Intended date of delivery.
  2. Number of bulk loads to be delivered.
  3. Quantities of each load in cubic feet or cubic meter.
  4. Name, address, and phone number of carrier.
  5. Names of truck drivers who will deliver the waste.
- C. The WM lead and Asbestos Program Manager (APM) will begin preparation of the WSR which is required for transport on public highway.
- D. Notify the WM lead, APM, and Company shipper of record to complete an inspection of the load while the containers are still at the job-site.
- E. The truck driver shall perform the following:
1. Before leaving the job-site, the driver shall have respirator in vehicle.
  2. Pick up the containerized load from the job-site. Company Radiation Control Technician (RCT) or CFR will issue green-tag for each load of waste. After survey, proceed to ORNL Building 7014.
  3. Proceed through radiation monitor, if available, following posted instructions.
  4. Present green tag to the Company Waste Handler on duty.
  5. Sign paperwork provided by Company Waste Technician and obtain a date stamped copy of the UCN-2109 and original green tag.
  6. Sign and copy the WSR as directed by the APM or designee to accept responsibility for the load.
  7. Take load and documents (UCN-2109 form, original green tag, signed WSR, and any other paperwork provided by the Company Waste Technician or APM) to ORNL Building 7120 (Shipping and Receiving Facility) to initiate DOT inspection. Truck drivers shall provide evidence of a valid medical card and Class-A CDL with hazardous material endorsement.
  8. Present paperwork to shipping personnel in the office area of the shipping area.
  9. Sign Bill of Lading and obtain driver's copy.
  10. Proceed to Building 9616-11 at the ORR landfill with all documentation obtained from the Company and follow directions provided by the ORR landfill staff.

11. Return copies of Bill of Lading, WSR, date-stamped UCN-2109 form, along with original AWA form to the APM.

## 2.5 ORR LANDFILL INFORMATION

- A. Disposal at the ORR landfill (formerly known as the Y-12 landfill) will be free of charge to the Seller according to the following schedule for non-hazardous, non-radiological demolition waste and construction debris generated at ORNL facilities.
- B. Typical hours of operation are Monday through Thursday; however, the landfill schedule is subject to change weekly. An updated schedule will be made available at the Company project kickoff meeting.
- C. Provide verbal notification and coordination/concurrence with the Company WM project lead at least one working day prior to the delivery of a newly approved special waste or a special waste that is not routinely delivered to the ORR landfill.
- D. Provide verbal notification and coordination/concurrence with the Company WM project lead at least one working day prior to the delivery of friable asbestos waste, non-friable asbestos waste or respiratory hazard waste.
- E. Respiratory protection is required when personnel are within 100' of disposal activities of asbestos, beryllium, and respiratory hazard wastes (including fiberglass and loose fibers).
- F. This includes activities such as opening and closing the doors on asbestos roll-offs before and after dumping, and all manual handling of potentially respirable waste materials.
- G. Personnel stationed within a closed-cab vehicle with all doors, windows, and openings closed are not required to wear respirators. Respirators must be present in the cab and available for use by trained personnel should the need arise to exit the vehicle.
- H. All personnel on the ground of any active ORR landfill must wear: high visibility apparel (i.e. highly reflective vests); safety glasses; safety shoes; and hard hats. Also, cell phone use is prohibited on the ORR landfill property.
- I. The UCN-2109 forms approved by the ORR landfill Operations Office are the primary "ticket" to gain access to the ORR landfill. The Company will complete the required UCN-2109 form set for each waste stream intended for ORR landfill disposal and initiate the review cycle required by the ORR Landfill Acceptance Manager.
- J. The approved UCN-2109 forms will be available at ORNL Building 7014 Vehicle Portal Monitor (the inspection/monitoring station), and each load of waste intended for ORR landfill disposal must stop at Building 7014 for inspection, monitoring, and collection of forms before leaving ORNL.
- K. Each load of waste delivered to the ORR landfill must be accompanied by a RADCON green tag. The Seller field supervision will be responsible for writing the correct UCN-2109 number on each green tag prior to the load leaving the project site. Copies of the approved UCN-2109's will be provided to the Seller at the field briefing prior to the start of work.

- L. All waste material must pass through the Vehicle Portal Monitor and will be subject to random inspection and RADCON survey.
  
- M. Any waste delivered to the ORR landfill that does not meet the waste acceptance criteria, is not packaged properly, is not labeled properly, or where required notification has not been given, is subject to rejection by the ORR landfill operator. If the delivery is rejected, the Seller shall immediately notify the Company and remain at the ORR landfill for further instructions.

**END OF SECTION**

**ORR WASTE CERTIFICATION PROGRAM  
DOCUMENT CONTROL SYSTEM**

If you print the following document, this page must be attached to the front of the document and you must fill in the information required below.

The attached document was printed from a controlled website and is valid until the revision number changes.

The user is responsible for checking that the revision number of the printed document matches the revision number of the controlled document on the ORR Waste Certification Program website at <http://www-orr.ettp.energy.gov/wastecertification.html>.

**Profile Number:**                    S-010, Construction/Demolition Waste

**Revision Number:**                    3

**Date Printed:** \_\_\_\_\_

**Person Checking Revision Number:** \_\_\_\_\_

NOTE: A hard copy of this document is valid only until the revision number has changed on the website. The hard copy should be signed and dated the day it is printed. If you continue to work from the hard copy, you should verify its accuracy on the website and record the date(s) the document revision number(s) were checked.

If the document is used again, use the space below to document the date(s) the revision number was checked.



**Key words: Non-Radioactive, Non-RCRA, Non-TSCA, Construction/Demolition**

**PROFILE NAME: Construction/Demolition Waste**

**Profile No.: S-010**

**Rev. No. : 3, 10/01/12**

**Effective Date: 10/15/12**

UCOR waste generators shall manage and dispose of Construction/Demolition waste intended for disposal in the ORR Landfills, in accordance with the requirements presented in this profile and following documents:

- *UCOR Waste Management Program Plan, PPD-WM-2400*
- *URS / CH2M Oak Ridge LLC Waste Certification Program Plan, Oak Ridge, Tennessee, UCOR-4187*

Proper characterization of waste is the responsibility of the generator. Signature of the UCN-2109 form (or equivalent, hereinafter referred to as UCN-2109 or 2109) is certification by the Waste Generator that sufficient controls are in place to mitigate the potential for non-conformances against this profile. This certification includes future generated waste where a blanket UCN-2109 is utilized.

#### **A. Material Description**

Construction/demolition wastes are wastes, other than special wastes, resulting from construction, remodeling, repair and demolition of structures, and from road building or repair. Such wastes include, but are not limited to bricks, concrete and other masonry materials, soil, rock, lumber, road spoils, rebar, and paving materials.

Construction/demolition wastes are **not** radioactive and not regulated under RCRA or TSCA.

Acceptable routine wastes include:

- Brick
- Masonry materials
- Rock
- Lumber and pallets
- Rebar (embedded in concrete)
- Vitrified clay materials (tile, pipe, block, etc.)
- Polyethylene sheeting
- Roofing materials
- Concrete
- Soil
- Gravel
- Road spoils
- Paving materials
- PVC pipe
- Sheetrock/gypsum board
- Insulation materials (fiberglass<sup>1</sup>, rockwool, styrofoam)
- Paneling
- Miscellaneous metals associated with building demolition
- Miscellaneous building demolition materials
- Window and door glass associated with building demolition

Construction/Demolition waste from the demolition of an industrial process or treatment process, or resulting from a CERCLA action may require special waste evaluation and approval by TDEC. Refer to Waste Profile S-040, "Special Waste" for guidance regarding acceptance and disposal of special wastes.

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<sup>1</sup> Fiberglass with loose fibers that is a respiratory hazard shall be disposed as a special waste (see waste profile S-040).

## **B. Chemical Constituent Limitations**

Wastes shall **not** exhibit characteristics of, or be listed as, hazardous waste as identified in the RCRA regulations, and cannot be subject to any RCRA Land Disposal Restrictions.

Wastes shall **not** be a PCB-detectable waste. PCB concentrations shall be less than 2 ppm. Wastes containing PCBs in concentrations exceeding 2 ppm may be acceptable as a special waste under the provisions of Waste Profile S-040.

## **C. Radiological Constituent Limitations**

The wastes shall meet the following criteria established with TDEC:

- 1) Specific activity < 35 picocuries of total uranium per gram of waste, or
- 2) Material that meets the off-site guidelines established in Figure IV-1 of DOE Order 5400.5, "Radiation Protection of the Public and the Environment," or
- 3) Wastes that are known to be nonradioactive by process knowledge (refer to Appendix A for guidance concerning the use of process knowledge).

Wastes exceeding radiological surface release criteria are prohibited from acceptance under this profile. Reference DOE Order 5400.5, "Radiation Protection of the Public and the Environment," Figure IV-1, Surface Contamination Guidelines.

Radioactive wastes are not acceptable for disposal. Wastes containing residual levels of radionuclides other than uranium may be candidates for landfill disposal under the guidelines of waste profile S-040.

## **D. Physical Parameter Limitations**

- 1) No free liquids<sup>2</sup>
- 2) The waste form shall have the consistency to be managed and compacted by landfill heavy equipment.
- 3) Bulky items, i.e., pipe, concrete foundations, structural steel, etc., should be sized to be less than 8 feet in length to permit safe handling with landfill equipment. For guidance on bulky wastes, the generator should consult with the Landfill Waste Acceptance Manager or the Landfill Facility Manager.
- 4) Minimize the mixing of waste across the various waste types, i.e., mixing gravel with lumber and pallets.

## **E. Characterization Parameters and Methodology**

Process knowledge and/or sampling and analysis may be used for categorizing and characterizing solid waste. Process knowledge may include knowledge and historical information of the areas and buildings from which the waste stream was generated, operations/processes that were performed in the areas/buildings from which the waste stream was generated, materials/contaminants that were used/processed/stored in the areas/buildings from which the waste stream was generated, and whether the waste was stored in radiologically contaminated and/or uncontaminated buildings/areas.

Sampling and analysis, if used, must identify and quantify the contaminants that are present in the waste. Analyses may be conducted for TCLP constituents, ignitability, corrosivity, reactivity, PCBs, radiological contaminants, and free liquids. If there are other suspected contaminants in the waste stream, the generator must analyze for these as

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<sup>2</sup> Any waste material that is determined to contain "free liquids" as defined by Method 9095 (Paint and Filter Liquids Test), as described in "Test Methods for Evaluating Solids Wastes, Physical/Chemical Methods" (Environmental Protection Agency [EPA] pub. No. SW-846).

well. -Sampling and analysis of the waste shall conform to the requirements of EPA document SW-846, "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", or other nationally recognized standards.

In reference to volumetric contamination, uranium is the only radionuclide with volumetric criteria established with TDEC for on-site landfill disposal using this profile. Radionuclide data must be reported in picocuries per gram of waste. (dry weight basis) Quantification of uranium isotopes may be accomplished at a TDEC reviewed NDA facility.

In regard to the disposal of waste in the on-site landfills, use of TDEC reviewed NDA facilities for surveying waste is only intended for providing verification that waste believed to meet radiological constituent limitations (see Section C) is suitable for disposal in the on-site landfills. Wastes that are known to be low level radioactive waste or radioactive material through process knowledge, radiological survey, or analytical data must not be sent directly or indirectly (i.e. through a TDEC reviewed NDA facility) to the landfill for disposal.

#### **F. Prohibited Items**

If prohibited materials are observed/detected in wastes delivered to the landfill, the waste generator will be notified so that they can retrieve the materials. Prohibited materials will not be accepted. Items prohibited under this profile include:

- Classified wastes
- RCRA Hazardous wastes
- PCB wastes
- Radioactive wastes
- Friable asbestos
- Liquid wastes
- Garbage and other putrescible materials
- Waste containing free liquids
- Waste contaminated with mercury, beryllium, PCBs, or petroleum products, or other chemicals
- Tires
- Lead acid batteries
- Untreated/treated medical wastes
- Refrigeration equipment not complying with 40 CFR 82.156
- Bulk metals
- Bulk paper
- Municipal wastes (All solid waste of or relating to being generated by city or local government, or private ownership be it business or personal.)
- Industrial wastes (Solid waste produced in, or generated by, industrial or manufacturing processes. This term does not include commercial, domestic, mining, or hazardous waste regulated under Subtitle C of RCRA, or oil and gas waste.)
- Institutional wastes (All solid waste which are not special waste, emanating from institutions such as, but not limited to, hospitals, health care facilities, nursing homes, laboratories, orphanages, correctional institutions, schools, and universities.)
- Unapproved special wastes
- Wastes that are not generated by DOE activities in the Oak Ridge area
- Drums
- Paint and adhesive containers
- Laboratory chemicals
- Commercial products manufactured with radioactive materials, i.e., smoke detectors, thoriated welding rods, etc.
- Landscaping or land clearing wastes

#### **G. Packaging Requirements**

Packaging and labeling shall comply with the applicable Department of Transportation (49 CFR) requirements. Every waste delivery to the ORR Landfills must be accompanied by a UCN-2109 form, which has been reviewed

and approved by the Landfill Facility Manager or the Waste Acceptance Manager. If waste generators have questions regarding delivery of waste to the landfill, contact the Landfill Waste Acceptance Manager or Landfill Facility Manager.

Any dumpsters used to deliver waste to the landfill shall have identification numbers or bar codes, and those identification numbers/bar codes shall be clearly reflected on the corresponding UCN-2109 forms.

The waste generator shall contact the Landfill Facility Manager if there are questions regarding personal protective equipment and training requirements for delivery personnel.

The waste generator shall size and load the waste into the waste delivery vehicles in such a manner to prevent the waste from becoming lodged in waste delivery vehicles and containers (i.e., dump truck beds, roll-off containers) during the dumping operations. The waste generator/transporter shall be responsible for safely removing and clearing lodged materials from the waste delivery vehicles/containers and all associated costs.

Waste delivery vehicles shall not leak fluids.

It is highly recommended that waste generators deliver wastes in vehicles that are self-dumping/unloading. If it is necessary to deliver wastes on flatbed trucks or flatbed trailers, the waste will be palletized if possible and the generator shall perform advance coordination with the Landfill Facility Manager to confirm that forklift support will be available.

Dump trailers (framed and frameless) are prohibited.

#### **H. Additional Requirements**

Notification is required at least one working day prior to delivery of new waste streams with new UCN-2109 forms from large construction/demolition projects and prior to non-routine deliveries. Notification must include a UCN-2109 form, associated documentation, and delivery schedules prior to shipping to the landfills. The delivery schedule must be agreed to by the Landfill Operations personnel.

All wastes delivered to the landfill must pass through the Vehicle Portal Monitor and will be subject to random inspection and radiological survey. The waste generator should contact the Waste Acceptance Manager or Landfill Facility Manager prior to delivery if the waste has elevated levels of naturally occurring radioactivity.

Any waste delivered to the landfill is subject to rejection by the landfill operator. If waste is rejected, the reason for rejection will be furnished to the waste generator. In addition, if advance notification of waste delivery is required for the waste and the notification is not provided to the ORR Landfill staff, the waste will be subject to rejection. If waste is rejected, the reason for rejection will be furnished to the waste generator. The waste generator will be responsible for the cost of retrieval, management, and proper disposition of all prohibited wastes delivered to the landfill.

If non-conforming/prohibited waste is dumped into the landfill, the waste generator shall be responsible for removal, packaging, transportation, and disposition of non-conforming/prohibited wastes, and all associated costs. The waste generator shall remove all non-conforming/prohibited waste from the ORR Landfills on the same day the non-conforming/prohibited waste is delivered to the ORR Landfills.

#### **I. Required Documentation (as applies)**

Specific requirements are stated for form UCN-2109, *Waste Item Description*, and UCOR Form 398, *Process Knowledge Documentation*. These requirements also apply to the corresponding forms UCN-21941, *Request for Landfill Disposal*, and UCN-21395, *Process Knowledge Documentation*, which are used by the Y-12 National Nuclear Security Complex, and the *ORR Landfill Shipping Form*, which is used by UCOR.

1. Completed and signed form UCN-2109, "Waste Item Description." Every waste delivery to the ORR Landfills must be accompanied by a UCN-2109 form, which has been reviewed and approved by the Landfill Facility Manager or the Landfill Waste Acceptance Manager. The UCN-2109 form shall comply with the following requirements:
  - 1.1. Information on UCN-2109 forms must accurately represent the waste and must be current, complete, and correct.
  - 1.2. If there is a change in the generating company, the UCN-2109 form must be modified to identify the correct company and correct generator information and be re-signed by the waste generator, unless otherwise approved by the Waste Acceptance Manager.
  - 1.3. If a radiological "green tag" is used to support the disposition of waste, the waste generator must provide the green tag number on the UCN-2109 form when the green tag number becomes available or attach the green tag to the 2109.
  - 1.4. Any Special Handling Instructions must be clearly noted on the UCN-2109 form.
2. Completed Form 398 (or equivalent), "Process Knowledge Documentation".
3. Radiological "green tag", or Process Knowledge Documentation Form 398 (or equivalent), or analytical data to clearly show the waste is not a radiological waste.
4. Sampling plans, laboratory data, statistical evaluation of the data, and/or other information that characterizes the waste.

## APPENDIX A

### USE OF PROCESS KNOWLEDGE FOR RADIOLOGICAL RELEASE OF MATERIAL TO U. S. DEPARTMENT OF ENERGY (DOE) LANDFILLS

Process knowledge (PK) is a tool used to aid the characterization of waste generated by DOE activities in the Oak Ridge area. PK is not used as a stand alone process. PK is one input into the evaluation of a material. Only a trained member of the radiological organization with input from trained waste generator can determine if an item is releasable from a radiological perspective. The radiological representative will use the signed PK form as an input to the evaluation for release of the material. The following points emphasize how PK is used in the evaluation for the release of materials to the DOE landfills:

- PK is not used for the release of materials to DOE landfills if those materials have been generated, used, or stored within radiologically contaminated areas. All materials released from contaminated areas are surveyed prior to release. Inaccessible internal surfaces that are physically prevented from coming into contact with radiological contamination—such as the internal surfaces of compressed cylinders or aerosol cans—are not required to be surveyed provided all accessible surfaces are found to meet the release criteria.
- Materials released to landfills from within radiologically controlled areas must be appropriately characterized to demonstrate compliance with applicable release criteria prior to release to the landfills. Radiological surveys and/or sampling are the primary means of characterization even for those materials for which the potential for contamination is known to be very low. However, for those materials not originating from radiological contamination areas and for which the potential for contamination is known to be insignificantly small, PK may be used as the basis for releasing these materials to the DOE landfills.
- PK requires an equipment or material owner to certify by signature that equipment or material could not possibly be contaminated based on personal and specific knowledge about the history of the item including its origin, use, and locations of use.
- PK may be used to help the Health Physicist or Radiological Engineer determine if equipment and material may be potentially contaminated. PK does not relieve the Health Physicist or Radiological Engineer from accountability for assuring the material or equipment meets the release limits.



**Keywords:** Concrete, Soil, Rock, Gravel, Brick

**PROFILE NAME:** Spoil Materials

**Profile No.:** S-050

**Rev. No.:** 3, 10/01/12

**Effective Date:** 10/15/12

UCOR generators shall manage and dispose of Spoil Materials intended for disposal in the ORR Landfills, in accordance with the requirements presented in this profile and following documents:

- *UCOR Waste Management Program Plan, PPD-WM-2400*
- *URS / CH2M Oak Ridge LLC Waste Certification Program Plan, Oak Ridge, Tennessee, UCOR-4187*

Proper characterization of waste and materials is the responsibility of the generator. Signature of the UCN-2109 form (or equivalent, hereinafter referred to as UCN-2109 or 2109) is certification by the generator that sufficient controls are in place to mitigate the potential for non-conformances against this profile. This certification includes future generated waste/materials where a blanket UCN-2109 is utilized.

#### **A. Material Description**

The intention of this profile is to identify certain earthen clean/non-contaminated materials that do not have to be deposited in a landfill. Placing this type of material in a “spoil area” will save valuable landfill space.

Acceptable Spoil Materials are listed below:

- Gravel
- Soil
- Rock
- Concrete
- Brick
- Cinder/concrete blocks
- Clay products (tile, pipe, etc.)
- Asphalt pavement

#### **B. Chemical Constituent Limitations:**

Spoil materials shall be clean, non-contaminated materials. If any chemical contamination is suspected, refer to profiles S-010, S-020, S-030, and/or S-040.

#### **C. Radiological Constituent Limitations:**

Spoil materials shall be clean, non-contaminated materials. If any radioactive contamination is suspected, refer to profiles S-010, S-020, S-030, and/or S-040.



#### **D. Physical Parameter Limitations:**

- 1) No free liquids<sup>1</sup>
- 2) Spoil materials should be sized to be less than 8 feet in length to permit safe handling with landfill equipment. For guidance on bulky materials, consult with the Waste Acceptance Manager or Landfill Facility Manager.

#### **E. Characterization Parameters and Methodology:**

Process knowledge and/or sampling and analysis may be used for categorizing and characterizing spoil material. Process knowledge may include knowledge and historical information of the areas and buildings from which the material was generated, operations/processes that were performed in the areas/buildings from which the material was generated, materials/contaminants that were used/processed/stored in the areas/buildings from which the material was generated, and whether the material was stored in radiologically contaminated and/or uncontaminated buildings/areas. Refer to Appendix A for guidance concerning the use of process knowledge.

Sampling and analysis, if used, must identify and quantify the contaminants that may be present in the spoil material. Analyses may be conducted for TCLP constituents, ignitability, corrosivity, reactivity, PCB's, radiological contaminants, and free liquids. If there are other suspected contaminants in the spoil material, the generator must analyze for these as well. Sampling and analysis of spoil materials shall conform to the requirements of EPA document SW-846, "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" or other nationally recognized standards. Sampling, analysis and subsequent data review should appropriately characterize/represent the spoil materials.

In reference to volumetric contamination, total uranium and other radionuclides must be reported in picocuries per gram of material. Radioactivity must not be greater than background and enrichment must not substantially deviate from natural (0.711 weight percent). Verification that radioactive isotopes are not greater than background must be performed by process knowledge, analysis of representative samples, or scan at a TDEC-reviewed NDA facility.

In regard to the disposal of material in the on-site spoil area, use of TDEC reviewed NDA facilities for surveying spoil material is only intended for providing verification that spoil material believed to be non-contaminated is suitable for disposal in the on-site spoil area. Materials that are known to be low level radioactive waste or radioactive material through process knowledge, radiological survey, or analytical data must not be sent directly or indirectly (i.e. through a TDEC reviewed NDA facility) to the spoil area for disposal.

#### **F. Prohibited Items**

If prohibited materials are observed/detected in materials delivered to the spoils area, the generator will be notified so that they can retrieve the materials. Prohibited materials will not be accepted. Items prohibited under this profile include:

- Classified wastes
- RCRA Hazardous wastes
- PCB wastes
- Radioactive wastes
- Friable asbestos

---

<sup>1</sup> Any **spoil** material that is determined to contain "free liquids" as defined by Method 9095 (Paint and Filter Liquids Test), as described in "Test Methods for Evaluating Solids Wastes, Physical/Chemical Methods" (Environmental Protection Agency [EPA] pub. No. SW-846).

- Liquid wastes
- Garbage and other putrescible materials
- Waste containing free liquids
- Waste contaminated with mercury, beryllium, PCBs, or petroleum products, or other chemicals
- Tires
- Lead acid batteries
- Untreated/treated medical wastes
- Refrigeration equipment not complying with 40 CFR 82.156
- Bulk metals
- Bulk paper
- Municipal wastes (All solid waste of or relating to being generated by city or local government, or private ownership be it business or personal.)
- Industrial wastes (Solid waste produced in, or generated by, industrial or manufacturing processes. This term does not include commercial, domestic, mining, or hazardous waste regulated under Subtitle C of RCRA, or oil and gas waste.)
- Institutional wastes (All solid waste which are not special waste, emanating from institutions such as, but not limited to, hospitals, health care facilities, nursing homes, laboratories, orphanages, correctional institutions, schools, and universities.)
- Wastes that are not generated by DOE activities in the Oak Ridge area
- Drums
- Paint and adhesive containers
- Laboratory chemicals
- Commercial products manufactured with radioactive materials, i.e., smoke detectors, thoriated welding rods, etc.
- Landscaping or land clearing wastes

### **G. Requirements Packaging**

Packaging shall comply with the applicable Department of Transportation (49 CFR) requirements. Every spoil material delivery to the ORR Landfills must be accompanied by a UCN-2109 form, which has been reviewed and approved by the Landfill Facility Manager or the Waste Acceptance Manager. If generators have questions regarding delivery of materials to the landfill, contact the Landfill Waste Acceptance Manager or Landfill Facility Manager.

The generator shall size and load the material into delivery vehicles in such a manner to prevent the material from becoming lodged in delivery vehicles and containers (i.e., dump truck beds, roll-off containers) during the dumping operations. The generator/transporter shall be responsible for safely removing and clearing lodged materials from the delivery vehicles/containers and all associated costs.

Delivery vehicles shall not leak fluids.

Dump trailers (framed and frameless) are prohibited.

The generator shall contact the Landfill Facility Manager if there are questions regarding personal protective equipment and training requirements for delivery personnel.

### **H. Additional Requirements**

Notification is required at least one working day prior to delivery of new spoil materials with new UCN-2109 forms from large construction/demolition projects and prior to non-routine deliveries. Notification must include a UCN-2109 form, associated documentation, and delivery schedules prior to shipping to the landfills. The delivery schedule must be agreed to by Landfill Operations personnel.

All spoil materials delivered to the landfill must pass through the Vehicle Portal Monitor and will be subject to random inspection and radiological survey. The generator should contact the Waste Acceptance Manager or Landfill Facility Manager prior to delivery if the spoils have elevated levels of naturally occurring radioactivity.

Any material delivered to the landfill is subject to rejection by the landfill operator. If material is rejected, the reason for rejection will be furnished to the generator. In addition, if advance notification of delivery is required and the notification is not provided to the ORR Landfill staff, the load will be subject to rejection. If loads are rejected, the reason for rejection will be furnished to the generator. The generator will be responsible for the cost of retrieval, management, and proper disposition of all prohibited materials delivered to the landfill.

If non-conforming/prohibited items are disposed in the spoils area, the generator shall be responsible for removal, packaging, transportation, and disposition of non-conforming/prohibited items, and all associated costs. The generator shall remove all non-conforming/prohibited items from the ORR Landfills on the same day the non-conforming/prohibited item is delivered to the ORR Landfills.

#### **I. Required Documentation (as applies)**

Specific requirements are stated for form UCN-2109, *Waste Item Description*, and UCOR Form 398, *Process Knowledge Documentation*. These requirements also apply to the corresponding forms UCN-21941, *Request for Landfill Disposal*, and UCN-21395, *Process Knowledge Documentation*, which are used by the Y-12 National Nuclear Security Complex, and the *ORR Landfill Shipping Form*, which is used by UCOR.

1. Completed and signed form UCN-2109, "Waste Item Description." Every delivery to the ORR Landfills must be accompanied by a UCN-2109 form, which has been reviewed and approved by the Landfill Facility Manager or the Landfill Waste Acceptance Manager. The UCN-2109 form shall comply with the following requirements:
  - 1.1. Information on UCN-2109 forms must accurately represent the spoil material and must be current, complete, and correct.
  - 1.2. If there is a change in the generating company, the UCN-2109 form must be modified to identify the correct company and correct generator information and be re-signed by the generator, unless otherwise approved by the Waste Acceptance Manager.
  - 1.3. If a radiological "green tag" is used to support the disposition of material, the generator must provide the green tag number on the UCN-2109 form when the green tag number becomes available or attach the green tag to the 2109.
2. Completed Form 398 (or equivalent), "Process Knowledge Documentation".
3. Radiological "green tag", or Process Knowledge Documentation Form 398 (or equivalent), or analytical data to clearly show the material is not a radiological waste.
4. Sampling plans, laboratory data, statistical evaluation of the data, and/or other information that characterizes the material.

## APPENDIX A

### USE OF PROCESS KNOWLEDGE FOR RADIOLOGICAL RELEASE OF MATERIAL TO U. S. DEPARTMENT OF ENERGY (DOE) LANDFILLS

Process knowledge (PK) is a tool used to aid the characterization of waste generated by DOE activities in the Oak Ridge area. PK is not used as a stand alone process. PK is one input into the evaluation of a material. Only a trained member of the radiological organization with input from trained waste generator can determine if an item is releasable from a radiological perspective. The radiological representative will use the signed PK form as an input to the evaluation for release of the material. The following points emphasize how PK is used in the evaluation for the release of materials to the DOE landfills:

- PK is not used for the release of materials to DOE landfills if those materials have been generated, used, or stored within radiologically contaminated areas. All materials released from contaminated areas are surveyed prior to release. Inaccessible internal surfaces that are physically prevented from coming into contact with radiological contamination—such as the internal surfaces of compressed cylinders or aerosol cans—are not required to be surveyed provided all accessible surfaces are found to meet the release criteria.
- Materials released to landfills from within radiologically controlled areas must be appropriately characterized to demonstrate compliance with applicable release criteria prior to release to the landfills. Radiological surveys and/or sampling are the primary means of characterization even for those materials for which the potential for contamination is known to be very low. However, for those materials not originating from radiological contamination areas and for which the potential for contamination is known to be insignificantly small, PK may be used as the basis for releasing these materials to the DOE landfills.
- PK requires an equipment or material owner to certify by signature that equipment or material could not possibly be contaminated based on personal and specific knowledge about the history of the item including its origin, use, and locations of use.
- PK may be used to help the Health Physicist or Radiological Engineer determine if equipment and material may be potentially contaminated. PK does not relieve the Health Physicist or Radiological Engineer from accountability for assuring the material or equipment meets the release limits.



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UCOR-5112



**UCOR**  
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Oak Ridge LLC

SAFELY DELIVERING THE DEPARTMENT OF ENERGY'S VISION  
FOR THE EAST TENNESSEE TECHNOLOGY PARK MISSION

**Oak Ridge Reservation Landfills,  
Profile S-040: Special Waste,  
Oak Ridge, Tennessee**

This document is approved for public  
release per review by:

D. C. Lannom

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UCOR Classification &  
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**UCOR-5112**

**Oak Ridge Reservation Landfills,  
Profile S-040: Special Waste,  
Oak Ridge, Tennessee**

Date Issued—May 2018

Prepared for the  
U.S. Department of Energy  
Office of Environmental Management

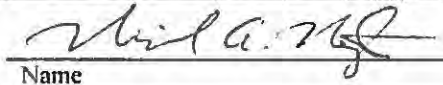
URS | CH2M Oak Ridge LLC  
Safely Delivering the Department of Energy's Vision  
for the East Tennessee Technology Park Mission  
under contract DE-SC-0004645



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## APPROVALS

<b>Oak Ridge Reservation Landfills, Profile S-040: Special Waste, Oak Ridge, Tennessee</b>	<b>UCOR-5112</b>
	May 2018

<b>USQD Review Determination</b>	<input type="checkbox"/> USQD <input checked="" type="checkbox"/> UCD <input type="checkbox"/> CAT X <input type="checkbox"/> Exempt (Select Criteria 1-3 below.) USQD/UCD/CAT X No.: <u>UCD-YT-ORRL-0694</u>	
<b>Exemption Criteria</b>	<input type="checkbox"/> (1) Non-Intent Change <input type="checkbox"/> (2) DOE-Approved Safety Basis Document <input type="checkbox"/> (3) Chief Accounting Officer, Internal Audit, Labor Relations, General Counsel, Outreach & Public Affairs, or Project Controls Services OR <input type="checkbox"/> (4) Document identified in USQD-MS-CX-REPORTS-1074	
<b>USQD Preparer:</b>	 Name	<u>5/1/2018</u> Date
<b>Exhibit L Mandatory Contractor Document</b>	<input checked="" type="checkbox"/> No (No PCCB Reviewer Signature Required) <input type="checkbox"/> Yes (Requires review by the Proforma Change Control Board.)	
<b>PCCB Reviewer:</b>	_____ Name	_____ Date

**Prepared by:** Courtney Julius 4/26/18  
 Courtney Julius, WM Quality Engineer  
 UCOR/Strata-G Date

**Concurred by:** Brandy Belicek 4/30/18  
 Brandy Belicek, ORR Landfill Operations Manager  
 UCOR Date

**Approved by:** Douglas Hanahan 4/26/18  
 Douglas Hanahan, UCOR Waste Acceptance  
 and Tracking Manager  
 RSI EnTech Date

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## REVISION LOG

Revision Number	Description of Changes	Pages Affected
0	Initial issue of document. Replaces Profile S-040, Rev. 6, <i>Oak Ridge Reservation Landfills Profiles S-040: Special Waste</i> . Please note that conversion of Profile S-040 to a UCOR-numbered document followed guidelines of UCOR-4000 ( <i>Document Preparation Guide for URS   CH2M Oak Ridge LLC, Oak Ridge, Tennessee</i> ) as best as practicable. However, due to previous cross-referencing between the profile, its associated forms, and the landfills, certain formatting falls outside the UCOR-4000 instructions. Formatting variations are explained/indicated where necessary.	All

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## ACRONYMS

ACM	asbestos-contaminated material
AWSR	Asbestos Waste Shipment Record
CDL	Construction/Demolition Landfill
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
<i>CFR</i>	<i>Code of Federal Regulations</i>
DOE	U.S. Department of Energy
DR	Disposal Request
EPA	U.S. Environmental Protection Agency
ILF	Industrial Landfill
NDA	non-destructive assay
ORR	Oak Ridge Reservation
OSHA	Occupational Safety and Health Administration
PK	process knowledge
PLM	polarized light microscopy
RACM	regulated asbestos-contaminated material
RCRA	Resource Conservation and Recovery Act
RESRAD	residual radioactive
TCLP	toxicity characteristic leaching procedure
TDEC	Tennessee Department of Environment and Conservation
UCOR	URS   CH2M Oak Ridge LLC
VPM	Vehicle Portal Monitor
WAT	Waste Acceptance Team
WTMS	Waste Transportation Management System



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# 1. INTRODUCTION

The Department of Energy (DOE)-Oak Ridge Office of Environmental Management manages three solid waste landfills permitted by the Tennessee Department of Environment and Conservation (TDEC) for the disposal of solid wastes generated by DOE activities in the Oak Ridge area. Through TDEC-approved permits and other documents, these landfills are approved to accept specific industrial wastes, institutional wastes, construction/demolition wastes, and special wastes. The landfills are:

- Industrial Landfill (ILF)-IV (Permit Number IDL 01-103-0075)
- ILF-V (Permit Number IDL 01-103-0083)
- Construction/Demolition Landfill (CDL)-VII (Permit Number DML 01-103-0045)

Special wastes are wastes that are either difficult or dangerous to manage and may include sludges, bulky wastes, pesticide wastes, medical wastes, industrial wastes, hazardous wastes that are not subject to regulation under TDEC Rules 0400-12-01-.03 through 0400-12-01-.07 (*Rules of the Tennessee Department of Environment and Conservation Division of Hazardous Waste Management*), liquid wastes, friable and non-friable asbestos wastes, and combustion wastes. Special Waste is accepted at the Oak Ridge Reservation (ORR) Landfills as described in this waste profile.

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## **2. WASTE DESCRIPTION**

### **2.1 SPECIAL WASTES EXEMPT FROM APPLICATION PROCESS**

The approvals to accept certain special wastes have been incorporated into the landfill permits and are therefore approved by TDEC on a “blanket” approval basis for disposal in the ORR Landfills. The approval and disposal requirements for these particular special wastes are presented in Chap. 6 in the corresponding Attachments, as summarized below. Special wastes with blanket approval are exempt from the application process described in Attachment 1.

- Attachment 3—Asbestos (friable and non-friable)
- Attachment 4—Beryllium oxide
- Attachment 5—Dead animals
- Attachment 6—Empty hazardous material containers
- Attachment 7—Empty aerosol cans/empty (non)pressurized gas
- Attachment 8—Empty pesticide containers
- Attachment 10—Petroleum product contaminated soil
- Attachment 11—Glass
- Attachment 12—Empty paint cans
- Attachment 14—Treated medical/biological waste
- Attachment 15—Bird droppings

### **2.2 POTENTIAL SPECIAL WASTES REQUIRING TDEC EVALUATION AND APPROVAL**

Special wastes or potential special wastes require review and approval by TDEC prior to disposal in the ORR Landfills. Only TDEC has the authority to determine whether a potential special waste is a special waste and is approved for disposition. The Waste Generator must make application to the landfill operator and to TDEC for review and approval of a special waste application, as described in Attachment 1. Potential special wastes requiring evaluation and approval include, but are not limited to:

- Sand/grit blast wastes
- Mercury-contaminated soils and materials
- Soils and materials contaminated with industrial chemicals
- Wastes generated by environmental restoration of contaminated sites
- Wastes generated from the demolition of industrial processes
- Wastes generated from the demolition of treatment processes
- Wastes generated from Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) projects (additional guidance is available from TDEC regarding CERCLA building debris)
- Wastes requiring special handling during disposal operations as defined by Industrial Hygiene
- Wastes that are bulky or difficult to manage
- Industrial process wastes:
  - Wastes emitted from industrial processes

— Raw material for industrial processes that become wastes

- Sludges from treatment or industrial processes
- Filters from industrial or treatment processes
- Activated carbon from industrial or treatment processes
- Treatment media from industrial or treatment processes
- Raw materials from treatment processes that become wastes
- Wastes from air emission control devices
- Polychlorinated biphenyl (PCB) detectable wastes
- PCB bulk product waste
- Lead-based paint debris (additional guidance available from TDEC regarding lead paint in building debris)
- Wastes that present potential respiratory hazards
- Solid laboratory chemicals
- Metal turnings, shavings, and dust from industrial processes and machining operations
- Bulk quantities of non-PCB light ballasts
- Incinerator ashes
- Paint chips
- Untreated medical/biological wastes

### 3. LIMITATIONS

#### 3.1 CHEMICAL CONSTITUENT LIMITATIONS

Waste shall not exhibit characteristics of, or be listed as, hazardous waste (as identified in the Resource Conservation and Recovery Act [RCRA] regulations) and cannot be subject to any RCRA Land Disposal Restrictions.

Certain PCB wastes that are approved under the Toxic Substances Control Act regulations for disposal in a state-approved non-hazardous waste landfill (e.g., PCB bulk product wastes) may be acceptable for disposal. **All wastes containing quantifiable levels of PCBs require TDEC review and approval as a special waste.** All other PCB wastes will not be acceptable for landfill disposal.

#### 3.2 RADIOLOGICAL CONSTITUENT LIMITATIONS

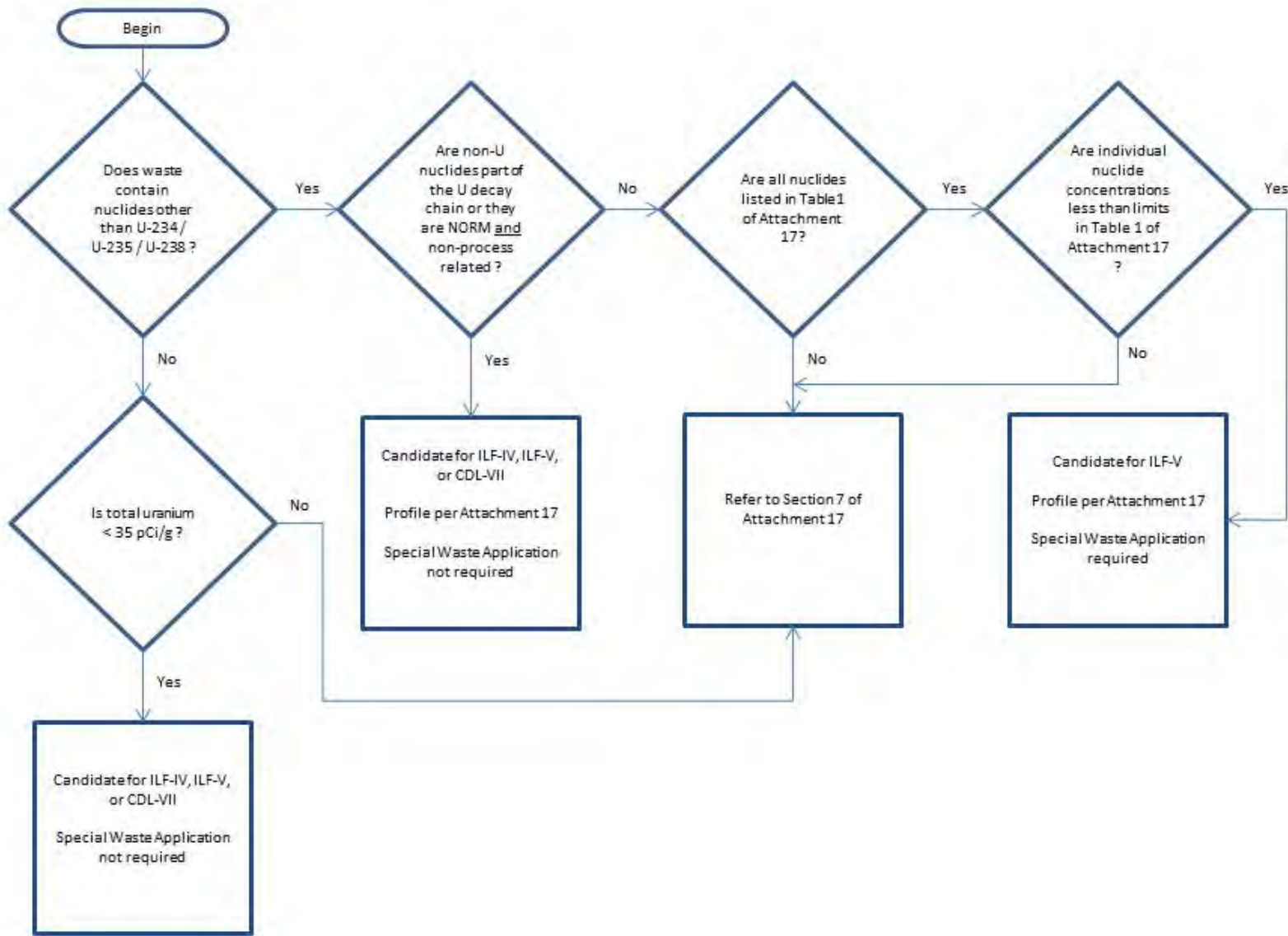
Wastes proposed for disposal in the ORR Landfills shall be either non-radioactive or, if residual radioactivity is present, shall meet the surface/volumetric radiological criteria established with DOE and TDEC. It is strongly recommended that generators consult with the Waste Acceptance Team (WAT) and cognizant Radiological Engineer or Health Physicist to determine when to use surface or volumetric criteria for waste characterization, or both, as applicable.

- If non-radioactive waste, then the waste must be documented as such by process knowledge (PK), by radiological surface survey results, and/or by volumetric analytical data, as applicable for each waste stream. Some waste streams may require surface and volumetric screening. Refer to Attachment 2 for guidance concerning the use of PK.
- If the waste is surface contaminated with radioactive isotopes, then the waste must meet the offsite surface release guidelines established in Figure IV-1 of DOE Order 5400.5<sup>1</sup>, *Radiation Protection of the Public and the Environment*.
- If the waste is volumetrically contaminated with radioactive isotopes, the waste must comply with the following:
  - If the waste has a total uranium activity of less than 35 picocuries per gram and no other non-naturally occurring radionuclides are present, the waste is a candidate for disposal in ILF-IV, ILF-V, or CDL-VII.
  - If the waste contains non-naturally occurring radionuclides other than uranium, the waste must meet the volumetric screening criteria specified in Table 1 of Attachment 17 (see Chap. 6). The process for obtaining approval to dispose of these wastes is described in Attachment 17. These limits only apply to ILF-V and CDL-VII. ILF-IV is not authorized to receive volumetric waste other than uranium isotopes, as previously stated.
  - If the waste is volumetrically contaminated with radionuclides that exceed or are not specifically included in Table 1 of Attachment 17, the waste may be a candidate for disposal. It will be necessary for the Waste Generator to obtain approval to dispose of the waste following the process described in Sect. 7 of Attachment 17.

Profiling guidance for volumetrically contaminated materials is illustrated in Fig. 1 (Note: Attachment 17 cited in the figure can be found in Chap.6).

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<sup>1</sup> DOE Order 458.1 authorizes continued use of the former DOE Order 5400.5 surface-contamination criteria as a pre-approved authorized limit.



NORM = naturally occurring radioactive material  
 U = uranium

**Fig. 1. Profiling guidance for volumetrically contaminated materials.**

### 3.3 PROHIBITED ITEMS

If prohibited materials are detected in wastes delivered to the landfill, the Waste Generator will be notified so the materials can be retrieved. Prohibited materials will not be accepted. Items prohibited under this profile include:

- RCRA-hazardous wastes
- PCB wastes, except those PCB wastes allowable under 40 *CFR* 761 (*Polychlorinated Biphenyls [PCBs] Manufacturing, Processing, distribution in Commerce, and Use Prohibitions*) and approved by TDEC as special waste
- Radioactive wastes, in excess of limits in Sect. 3.2.
- Liquid wastes or waste containing free liquids
- Tires, unless quartered or shredded
- Lead acid batteries
- Refrigeration equipment not complying with 40 *CFR* 82.156 (“Proper evacuation of refrigerant from appliances”)
- Unapproved special wastes

Any waste delivered to the landfill that does not meet the requirements of this profile, is not packaged properly, or is not labeled properly is subject to rejection by the landfill operator. In addition, if advance notification of waste delivery is required for the waste and the notification is not provided to the ORR Landfill staff, the waste will be subject to rejection. If waste is rejected, the reason for rejection will be furnished to the Waste Generator. The Waste Generator will be responsible for the cost of retrieval, management, and proper disposition of all prohibited wastes delivered to the landfill.



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## 4. PARAMETERS

### 4.1 PHYSICAL PARAMETERS

- No free liquids<sup>2</sup>. The waste form shall have the consistency to be managed and compacted by landfill heavy equipment.
- Bulky items (e.g., pipe, concrete foundations, large storage tanks, structural steel) must be less than 8 ft in length in order to permit safe handling with landfill equipment. The Waste Generator is responsible for ensuring that waste is sized so that it does not get stuck in transportation vehicles. For guidance on oversized items, the Waste Generator should contact the Landfill WAT or Landfill Facility Manager.
- Except as authorized in this profile or authorized by the Landfill WAT, the Waste Generator shall segregate wastes (special wastes shall be segregated from construction/demolition and sanitary/industrial wastes and shall be segregated by special waste type [e.g., friable asbestos shall be segregated from non-friable asbestos, PCB bulk product paint waste shall be segregated from friable asbestos]) at the point of generation for segregated delivery of the wastes to the ORR Landfills.

### 4.2 CHARACTERIZATION PARAMETERS AND METHODOLOGY

- URS | CH2M Oak Ridge LLC (UCOR) Waste Generators shall manage and dispose of waste intended for disposal in the ORR Landfills, in accordance with the requirements presented in this profile and following documents:
  - *UCOR Waste Management Program Plan*, PPD-WM-2400
  - *URS | CH2M Oak Ridge LLC Waste Certification Program Plan, Oak Ridge, Tennessee*, UCOR-4187

Non-UCOR Waste Generators shall manage and certify wastes in accordance with their DOE prime contractor-approved documents. Proper characterization of waste is the responsibility of the generator.

- PK and/or sampling and analysis must be used for categorizing and characterizing solid waste. PK may include knowledge and historical information of the areas and buildings from which the waste stream was generated, operations/processes that were performed in the areas/buildings from which the waste stream was generated, materials/contaminants that were used/processed/stored in the areas/buildings from which the waste stream was generated, and whether the waste was stored in radiologically contaminated and/or uncontaminated buildings/areas.
- Sampling and analysis, if utilized, must identify and quantify the contaminants that are present in the waste. Depending on the nature of the waste, analyses may be required for toxicity characteristic leaching procedure (TCLP) constituents, ignitability, corrosivity, reactivity, PCBs, beryllium, radiological contaminants, and/or free liquids. Sampling and analysis of the waste shall conform to the requirements of U.S. Environmental Protection Agency (EPA) document SW-846, *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods*, or other nationally recognized standards. If a non-standard method is used to characterize the waste, a detailed explanation must be provided in the TDEC Waste Evaluation Application.

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<sup>2</sup>Any waste material that is determined to contain “free liquids” as defined by Method 9095 (Paint and Filter Liquids Test), as described in *Test Methods for Evaluating Solids Waste: Physical/Chemical Methods* (Environmental Protection Agency [EPA] Pub. No. SW-846).

- Radiological characterization must conform to the sampling and analytical requirements in Attachment 17, Sect. 3. Radionuclide characterization data must be reported in picocuries per gram of waste (dry weight basis).
- If a Waste Generator proposes to use non-destructive assay (NDA) to characterize volumetrically contaminated waste, the Waste Generator shall follow the guidance presented in Attachment 17, Sect. 3.

## 5. REQUIREMENTS

### 5.1 PACKAGING/TRANSPORTATION REQUIREMENTS

- Packaging and labeling shall comply with applicable Department of Transportation (49 *CFR*) requirements, the requirements specified in this profile, and any additional conditions specified in TDEC special waste approval letters.
- Labels, markings, identification, etc. on drums and containers that are not applicable to the drum, container, or waste in the drum or container must be rendered unidentifiable and the action identified in the accompanying Disposal Request (DR) (see Sect. 5.3). Any dumpsters used to deliver waste to the landfill shall have identification numbers or bar codes, and those identification numbers/bar codes shall be clearly reflected on the corresponding DR.
- The Waste Generator shall size and load the waste into the waste-delivery vehicles in such a manner to prevent the waste from becoming lodged in waste-delivery vehicles and containers (i.e., dump truck beds, roll-off containers) during the dumping operations. The Waste Generator/Transporter shall be responsible for safely removing and clearing lodged materials from the waste-delivery vehicles/containers.
- The ORR Landfills can provide assistance with off-loading via forklift; however, it is highly recommended that Waste Generators deliver wastes in vehicles that are self-dumping/unloading. If it is necessary to deliver wastes on flatbed trucks or flatbed trailers, the waste shall be palletized or cribbed and the generator shall perform advance coordination with the WAT or Landfill Facility Manager to confirm that forklift support will be available. Additionally, the weight must be clearly marked on the item upon arrival at the Truck Receiving Station. Some material may also require that the center of gravity be marked before the material can be handled.
- For deliveries of large, bulky items that exceed the handling capacity of standard equipment at the landfill, the Waste Generator shall make all necessary unloading preparations (i.e., equipment [cranes and large fork trucks], trained personnel, hoisting and rigging plans, work plans, activity hazard assessments). The Waste Generator shall be responsible for all costs associated with such unloading activities.
- Waste-delivery vehicles **shall not** leak fluids (e.g., compactor trucks, dump trucks, dumpsters, roll-offs)
- Dump trailers (framed and frameless) are prohibited.
- The Waste Generator shall contact the WAT or Landfill Facility Manager if there are questions regarding personal protective equipment requirements for delivery personnel.

### 5.2 ADDITIONAL REQUIREMENTS

- During preparation of proposals and preparation of waste management plans for projects, the Waste Generator shall communicate with the Landfill WAT to discuss the project schedule, projected waste generation/delivery schedule(s), projected waste streams, estimated waste volumes, waste characterization, potential special waste requests, waste segregation, and waste documentation. Waste-delivery quantities per day may be limited based on available landfill resources.

- Disposal plans for special wastes that require TDEC approval prior to disposal must be coordinated with the WAT during initial planning activities to allow sufficient time for obtaining TDEC special waste approval.
- The Waste Generator shall provide notification to and coordinate with the WAT or Landfill Facility Manager at least one working day prior to delivery of a newly approved special waste or a special waste that is not routinely delivered to the landfill.
- All wastes delivered to the landfill, including NDA-surveyed wastes, must pass through the Vehicle Portal Monitor (VPM), and will be subject to random inspection and random radiological survey.
- If the waste to be delivered to the landfill contains naturally occurring radioactive material or has been approved by TDEC with volumetric contamination, the generator may request a VPM bypass. VPM bypass requests must be made to the WAT and include justification for the request (e.g., PK statements, analytical data) and a completed DR. VPM bypass requests shall be evaluated by the Radiological Engineer supporting the ORR Landfills and must be approved by the Landfill Facility Manager.

### **5.3 DOCUMENTATION REQUIREMENTS**

Documentation required for acceptance and disposal of special waste is discussed below. The terms “Disposal Request or DR,” as used in this document, refers to Form-3206, *ORR Landfill Waste Profile Data Package* (publication in process); Form UCN-2109, Waste Item Description; Form UCN-21941, Request for Landfill V and VII Disposal; the ORR Landfill Shipping Form in UCOR’s Waste Transportation Management System (WTMS) or eMWaste; or equivalent.

Information on DRs and PK Documentation Forms must accurately represent the waste and must be current, complete, and correct. Signature of the DR constitutes certification by the Waste Generator that sufficient controls are in place to mitigate the potential for non-conformances against this profile. This certification includes future-generated waste when a blanket DR is utilized.

#### **5.3.1 Documentation Required for Special Waste Evaluation Applications**

The documents required for special waste evaluation applications to be submitted to TDEC are described in Attachment 1 (see Chap. 6).

#### **5.3.2 Documentation Required for Disposal Requests**

The following documents shall be submitted to the WAT for review and approval prior to waste delivery.

- Completed and signed DR form (if using an electronic system such as WTMS, submittal for approval shall constitute signature of the DR).
  - Special Waste that is routinely generated can be represented on a “blanket” DR, which must be renewed annually.
  - If there is a change in the generating company or generator contact, the DR must be modified to identify the correct company and correct generator information and be re-signed by the Waste Generator, unless otherwise approved by the WAT.
  - If a radiological “green tag” is used to support the disposition of waste, the Waste Generator must provide the green tag number on the DR when the green tag number becomes available or attach the green tag to the DR.

- The TDEC special waste approval letter number must be clearly noted on the DR.
- Any special handling instructions must be clearly noted on the DR.
- PK Documentation Form
  - A PK form, or equivalent, shall be submitted for all wastes using this profile.
- Radiological certification clearly showing the waste meets the radiological acceptance criteria:
  - “Green tag”
  - Custodial justification
  - Radiological surveys
  - Analytical data
  - PK documentation
- Sampling plans, laboratory data, statistical evaluation of the data, and/or other information that characterizes the waste, if not previously included in a special waste evaluation application.
- TDEC special waste approval letter, if applicable.
- Draft copy of Asbestos Waste Shipment Record, per Attachment 3.
- Draft copy of Generator’s/Shipper’s Log for Beryllium/Beryllium Oxide Removal and Disposal, per Attachment 4.
- Any other documentation required by the TDEC special waste approval letter (e.g., radiological certification letters)

### **5.3.3 Documentation Required for Waste Deliveries**

- A completed and signed DR that has been approved by the WAT or Landfill Facility Manager. Signed forms are not required for compactors and numbered dumpsters with blanket approvals.
- If not previously provided, radiological certification (see previous section for acceptable means of certification).
- Any other documents required by the Attachments to this profile or the TDEC special waste approval letter.

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## 6. SPECIAL WASTE ATTACHMENTS

This chapter presents attachments that represent ORR Landfill special wastes that have been incorporated into the original landfill permits; therefore, these certain wastes have been previously approved for disposal by TDEC on a “blanket” approval basis and do not have to go through the application process. In addition, the special waste evaluation application process (though not necessary for these special wastes) and use of PK in determining radiological release of material is discussed. Below is a list of the attachments, which further describe the special wastes on the following pages. Attachment 17 also includes two appendices (A and B) that discuss supplemental material related to that attachment. Note that some attachments are reserved, meaning they are no longer in use.

Attachment 1—Special Waste Application Process

Attachment 2—Use of Process Knowledge for Radiological Release of Material to DOE Landfills

Attachment 3—Special Waste: Asbestos (Friable and Non-friable)

Attachment 4—Special Waste: Beryllium Oxide

Attachment 5—Special Waste: Dead Animals

Attachment 6—Special Waste: Empty Hazardous Material Containers

Attachment 7—Special Waste: Empty Aerosol Cans/Empty (Non)Pressurized Gas

Attachment 8—Special Waste: Empty Pesticide Containers

Attachment 9—Reserved

Attachment 10—Special Waste: Petroleum Product Contaminated Soil

Attachment 11—Special Waste: Glass

Attachment 12—Special Waste: Empty Paint Cans

Attachment 13—Reserved

Attachment 14—Special Waste: Treated Medical/Biological Waste

Attachment 15—Special Waste: Bird Droppings

Attachment 16—Reserved

Attachment 17—Special Waste: Wastes Volumetrically Contaminated with Residual Radioactive Materials

Appendix A—Background Concentration and Other Radionuclides

Appendix B—Sampling and Analytical Summary Form



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# ATTACHMENT 1

## SPECIAL WASTE EVALUATION APPLICATION PROCESS

### 1. REGULATORY REQUIREMENTS AND OTHER INFORMATION

The special waste evaluation application process is discussed below. The forms referenced in this section, and other information, can be found on the TDEC website.

TDEC Rule 0400-11-01-.07(2)(b)4 requires a \$300 fee for special waste evaluations. The fee is required for all special waste evaluations.

Generators should allow sufficient time in their project schedules to obtain special waste approval. Per the information provided on TDEC's web site, special waste evaluation applications will be processed within **30 days** of receipt of the application.

### 2. SPECIAL WASTE EVALUATION APPLICATION SUBMITTAL AND APPROVAL PROCESS

Based upon the regulatory requirements and guidance from DOE, the process for handling "potential" special wastes and special wastes generated as a result of DOE activities in the Oak Ridge area is described below. Special wastes with blanket approval (Sect. 2.1) are exempt from this process.

**2.1** The Waste Generator shall review the Sanitary/Industrial Waste Profiles, and properly characterize and categorize the waste, including special wastes and "potential" special wastes. If a Waste Generator has questions regarding categorization of special wastes or "potential" special wastes, the Waste Generator should consult with the Landfill WAT.

**2.2** If the Waste Generator has a special waste or "potential" special waste, the Waste Generator shall prepare a draft special waste evaluation application package including:

- Transmittal letter containing the appropriate radiological assurance statement, as described in Sect. 3 of this attachment
- Waste Evaluation Application (see Sect. 4 of this attachment)
- Relevant associated documentation (e.g., safety data sheets, laboratory data, waste sampling descriptions)
- \$300.00 check

**2.3** If the waste is volumetrically contaminated with radionuclides, the Waste Generator shall comply with the requirements presented in Attachment 17 and include the following additional documents in the special waste evaluation application package:

- Sampling and Analytical Summary (Appendix B of Attachment 17), with supporting analytical data
- Volumetric Screening and Compliance Calculation Spreadsheet (see Sect. 5 of Attachment 17)
- Information and documentation, as described in Sect. 7 of Attachment 17, for waste containing radionuclides that exceed or are not listed in Table 1 of Attachment 17

- 2.4** The Waste Generator shall transmit the entire draft special waste application package to the Landfill WAT for review<sup>3</sup>.
- 2.5** Upon receipt of review comments from the Landfill WAT, the Waste Generator shall revise the special waste request package to appropriately address the review comments and sign the transmittal letter and Waste Evaluation Application.
- 2.6** The Waste Generator shall deliver the final special waste application package, including the signed transmittal letter, signed Waste Evaluation Application, all support documentation, and a \$300 check to the Landfill WAT, who will transmit the information to TDEC. Alternately, the package may be transmitted to TDEC by the Waste Generator, provided that a copy of the final package is provided to the WAT.
- 2.7** Any interim correspondence between TDEC and the generator should be forwarded to the WAT.
- 2.8** Upon receipt of the TDEC special waste approval letter, the Waste Generator shall submit the documents specified in Sect. 5.3.2 to the WAT for review and approval.

### **3. TRANSMITTAL LETTER ASSURANCE STATEMENTS**

#### **3.1 Wastes Only Subject to Volumetric Contamination**

“This waste complies with applicable authorized limits as provided for in DOE Order 458.1 (previously DOE Order 5400.5) and delineated in the Memorandum of Understanding between the Tennessee Division of Radiological Health and the Tennessee Division of Solid Waste Management for release from radiological control and is appropriate for disposal at the ILF-V and/or CDL-VII. The waste has been, or will be, fully characterized and has been shown, or will be shown, to meet the agreed upon screening criteria for volumetric contamination as demonstrated in the Sampling and Analytical Summary and the Screening Calculations Worksheet included in this waste request.”

#### **3.2 Wastes Only Subject to Surface Contamination**

“This waste complies with applicable authorized limits as provided for in DOE Order 458.1 (previously DOE Order 5400.5) for release from radiological control and is appropriate for disposal at the ILF-V and/or CDL-VII. The waste has been fully characterized, or will be, and has been shown, or will be shown, to meet the applicable surface contamination criteria from Table IV-1 of DOE Order 5400.5 (as amended in November 1995 guidance), and the potential for volumetric contamination within the waste has been evaluated and found to be insignificant.”

#### **3.3 Wastes Subject to Volumetric and Surface Contamination**

“This waste complies with applicable authorized limits as provided for in DOE Order 458.1 (previously DOE Order 5400.5) for release from radiological control and is appropriate for disposal at the ILF-V and/or CDL-VII. The waste has been fully characterized, or will be, and has been shown, or will be shown, to meet the applicable surface contamination criteria from Table IV-1 of DOE Order 5400.5 (as amended in November 1995 guidance), and has been shown, or will be shown, to meet the agreed

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<sup>3</sup>All draft special waste request packages will be reviewed by the Landfill WAT, DOE, and other UCOR staff, as needed. The WAT will provide consolidated review comments to the Waste Generator five (5) working days after the draft special waste request package is provided to the WAT by the Waste Generator.

upon screening criteria for volumetric contamination as demonstrated in the Sampling and Analytical Summary and the Screening Calculations Worksheet included in this waste request.”

#### **3.4 Wastes Evaluated by PK**

“The potential for surface and volumetric contamination of the waste was evaluated and determined to be insignificant based on process knowledge. Process knowledge of the waste was used to determine that the waste is not radiologically contaminated as a result of U. S. Department of Energy operations and that the waste is appropriate for disposal in the Oak Ridge Reservation Landfills. The process knowledge determination is applied only to materials that have not been within radiological contamination areas and is based on the known origin, use, and usage location of the materials. The process knowledge determination is not applied to legacy wastes or other materials for which the origin, use, or usage locations are not well known.”

#### **4. SPECIAL WASTE EVALUATION APPLICATION FORM**

The Special Waste Evaluation Application (Form # CN-1051) is illustrated below. Current versions of the form may be obtained from TDEC’s website (see Sect. 1.1).



TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
DIVISION OF SOLID WASTE MANAGEMENT  
312 Rosa L. Parks Avenue, 14<sup>th</sup> Floor  
Nashville, TN 37243

RESET FORM

SPECIAL WASTE EVALUATION APPLICATION

PLEASE COMPLETE ALL QUESTIONS

Official Use Only  
SPC ID #

<b>1. GENERATOR INFORMATION.</b>	
(A) Facility Name:	<input type="text"/>
Mailing Address:	<input type="text"/>
Zip Code:	<input type="text"/> Phone: <input type="text"/>
(B) Physical Location:	<input type="text"/>
County:	<input type="text"/> Phone: <input type="text"/>
(C) Nature of Business:	<input type="text"/>
Technical Contact:	<input type="text"/>
Title:	<input type="text"/> Phone: <input type="text"/>
<b>2. UNDER TENNESSEE RULES GOVERNING HAZARDOUS WASTE MANAGEMENT, IS THE WASTE:</b>	
(A) IGNITABLE?.....	YES <input type="checkbox"/> NO <input type="checkbox"/>
(B) CORROSIVE?.....	<input type="checkbox"/> <input type="checkbox"/>
(C) REACTIVE?.....	<input type="checkbox"/> <input type="checkbox"/>
(D) TCLP HAZARDOUS?.....	<input type="checkbox"/> <input type="checkbox"/>
(E) IS IT A LISTED HAZARDOUS WASTE? .....	<input type="checkbox"/> <input type="checkbox"/>
Hazardous Waste Code(s): <input type="text"/>	
RULE 0400-12-01-.03(1)(b) - A person who generates a waste must determine if that waste is a hazardous waste.	
<b>3. NAME AND/OR DESCRIPTION OF WASTE:</b>	
<input type="text"/>	
<b>4. WASTE CHARACTERIZATION.</b> Attach laboratory reports and/or material safety data sheets to adequately characterize the waste or explain why this is not necessary.	
Describe any Special Handling Procedures:	pH (if applicable) <input type="text"/>
<input type="text"/>	Radioactive (Y/N) <input type="text"/>
	Flash Point (if applicable) <input type="text"/>
	Infectious (Y/N) <input type="text"/>
	Physical State: Solid <input type="checkbox"/> Liquid <input type="checkbox"/> Sludge <input type="checkbox"/> Slurry <input type="checkbox"/>
Attachment Included (Y/N) <input type="checkbox"/>	Color: <input type="text"/> Percent Solid: <input type="text"/>
<b>5. DESCRIBE HOW WASTE IS GENERATED (Be Specific).</b>	
(A)	(B)
Rate of Waste "Generation": Quantity <input type="text"/>	Rate of Waste "Disposal": Quantity <input type="text"/>
Type Units: Tons <input type="checkbox"/> cy <input type="checkbox"/> lbs <input type="checkbox"/> Other <input type="text"/>	Type Units: Tons <input type="checkbox"/> cy <input type="checkbox"/> lbs <input type="checkbox"/> Other <input type="text"/>
(specify)	(specify)
Frequency of Generation: One Time <input type="checkbox"/> Daily <input type="checkbox"/>	Frequency of Disposal: One Time <input type="checkbox"/> Daily <input type="checkbox"/> Weekly <input type="checkbox"/>
Weekly <input type="checkbox"/> Monthly <input type="checkbox"/> Annually <input type="checkbox"/> Other <input type="text"/>	Monthly <input type="checkbox"/> Annually <input type="checkbox"/> Other <input type="text"/>
(specify)	(specify)

5. (continued)	
(C) Include a narrative and a flow diagram of the process that generates the waste. Your explanation must describe the <b>POTENTIAL</b> contaminants in the waste which should justify your scope of constituents in Item 3. Include attachments as necessary.	
Attachment Included (Y/N) <input type="checkbox"/>	
6. HOW IS WASTE PRESENTLY MANAGED?	
7. DESCRIBE THE <u>TYPE OF CONTAINER</u> USED FOR TRANSPORT OF WASTE.	
Drums <input type="checkbox"/> Roll-Off <input type="checkbox"/> Container (dumpster, collector box) <input type="checkbox"/> Plastic Bags <input type="checkbox"/> Truck <input type="checkbox"/> Other <input type="text"/>	
8. PROPOSED DISPOSAL / PROCESSING FACILITY. List only a facility that you have contacted and which has agreed to accept your waste if approved by the Department. <input type="text"/>	
(A) Facility Name:	<input type="text"/>
(B) Facility Permit Number:	<input type="text"/>
(C) Facility Operator / Contact Name:	<input type="text"/>
Phone:	<input type="text"/>
9. PROPOSED TRANSPORTER.	
Name:	<input type="text"/>
Address:	<input type="text"/>
Phone:	<input type="text"/>
10. I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, and accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.	
Waste Generator's Authorized Signature:	Preparer's Signature (If Different):
Date	Date
<b>Official Use Only</b>	
Reviewer's Signature	Date Reviewed

Send originals with attachments to the Solid Waste Environmental Field Office for the region in which the facility listed in Item 8 above is located.

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## **ATTACHMENT 2**

### **USE OF PROCESS KNOWLEDGE FOR RADIOLOGICAL RELEASE OF MATERIAL TO U. S. DEPARTMENT OF ENERGY LANDFILLS**

PK is a tool used to aid the characterization of waste generated by DOE activities in the Oak Ridge area. PK is not used as a stand-alone process. PK is one input into the evaluation of a material. Only a trained member of the radiological organization with input from a trained Waste Generator can determine if an item is releasable from a radiological perspective. The radiological representative will use the signed PK form as an input to the evaluation for release of the material. The following points emphasize how PK is used in the evaluation for the release of materials to the DOE landfills:

- PK is not used for the release of materials to DOE landfills if those materials have been generated, used, or stored within radiologically contaminated areas. All materials released from contaminated areas are surveyed prior to release. Inaccessible internal surfaces that are physically prevented from coming into contact with radiological contamination—such as the internal surfaces of compressed cylinders or aerosol cans—are not required to be surveyed, provided all accessible surfaces are found to meet the release criteria.
- Materials released to landfills from within radiologically controlled areas must be appropriately characterized to demonstrate compliance with applicable release criteria prior to release to the landfills. Radiological surveys and/or sampling are the primary means of characterization even for those materials for which the potential for contamination is known to be very low. However, for those materials not originating from radiological contamination areas and for which the potential for contamination is known to be insignificantly small, PK may be used as the basis for releasing these materials to the DOE landfills.
- PK requires an equipment or material owner to certify by signature that equipment or material could not possibly be contaminated based on personal and specific knowledge about the history of the item, including its origin, use, and locations of use.
- PK may be used to help the Health Physicist or Radiological Engineer determine if equipment and material may be potentially contaminated. PK does not relieve the Project Health Physicist from accountability for assuring the material or equipment meets the release limits.



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# **ATTACHMENT 3**

## **SPECIAL WASTE: FRIABLE AND NON-FRIABLE ASBESTOS-CONTAINING MATERIAL**

### **1. DEFINITIONS**

The following definitions are based on TDEC Rule 1200-03-11-.02. Waste generators are responsible for referring to TDEC Rule 1200-03-11-.02 for other regulatory definitions.

“Asbestos-containing material” (ACM) means asbestos or any ACM that contains more than 1 percent asbestos as determined using polarized light microscopy (PLM), according to the method specified in Appendix A, Subpart F, 40 *CFR*, Part 763, Section 1, “Polarized Light Microscopy,” as contained in the 7-1-91 Edition of the *CFR*.

“Category I non-friable ACM” means asbestos-containing packings, gaskets, resilient floor covering, and asphalt roofing products containing more than 1 percent asbestos as determined using PLM, according to the methods specified in Appendix A, Subpart F, 40 *CFR* Part 763, Section 1, “Polarized Light Microscopy,” as contained in the 7-1-91 Edition of the *CFR*.

“Category II non-friable ACM” means any material, excluding Category I non-friable ACM, containing more than 1 percent asbestos as determined using polarized light microscopy according to the methods specified in Appendix A, Subpart F, 40 *CFR* Part 763, Section 1, “Polarized Light Microscopy,” as contained in the 7-1-91 Edition of the *CFR*, that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

“Friable asbestos material” means any material containing more than 1 percent asbestos as determined using PLM, according to the methods specified in Appendix A, Subpart F, 40 *CFR* Part 763, Section 1, Polarized Light Microscopy, as contained in the 7-1-91 Edition of the *CFR*, that, when dry, can be crumbled, pulverized, or reduced to powder during hand pressure. If the asbestos content is less than 10 percent as determined by a method other than point counting by PLM, verify the asbestos content by point counting using PLM.

“In poor condition” means the binding of the material is losing its integrity, as indicated by peeling, cracking, or crumbling of the material.

“Leak-tight” means that solids or liquids cannot escape or spill out. It also means dust-tight.

“Regulated asbestos-containing material (RACM)” means friable asbestos material; Category I non-friable ACM that has become friable; Category I non-friable ACM that will be or has become subjected to sanding, grinding, cutting, or abrading; or Category II non-friable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of the demolition or renovation operations regulated by Rule 1200-03-11-.02

“Visible emissions” means any emissions that are visually detectable without the aid of instruments, coming from RACM or ACM, or from any asbestos milling, manufacturing, or fabricating operation. This does not include condensed, uncombined water vapor.

## 2. FRIABLE ACM

**Friable ACM waste**, including insulation, piping, metal, equipment, and clothing that contains or is contaminated with friable asbestos, shall be managed as follows:

1. **Shall be packaged and sealed tightly in double-bagged, 6-mil-thick plastic bags, double-wrapped 6-mil-thick plastic sheeting, fiber drums, metal drums, or plywood boxes.**
2. Shall be labeled (or equivalent) as shown below: An updated label may be obtained on the Occupational Safety and Health Administration (OSHA) website

<p style="text-align: center;"><b>DANGER</b> <b>CONTAINS ASBESTOS FIBERS</b> <b>AVOID CREATING DUST</b> <b>CANCER AND LUNG DISEASE HAZARD</b></p>
---

3. **Shall be transported in a fully enclosed space or fully covered by a secured tarpaulin.**
4. Shall be accompanied by a signed Asbestos Waste Shipment Record (AWSR) or equivalent, in addition to the documents specified in Chap. 5 of this profile. The AWSR form can be downloaded from TDEC's website.
5. Personnel within 100 ft of unloading operations shall, as a minimum, wear a respirator with cartridges for asbestos protection, unless personnel are inside a totally enclosed cab with all windows, vents, openings, etc. closed. All non-essential personnel shall stay out of the unloading area. Waste Generators/Transporters shall provide any personal protective equipment they need for the unloading operations.
6. The Waste Generator shall exercise extreme care in off-loading the waste to avoid rupturing the package. Unloading is the responsibility of the Waste Generator/Waste Generator.
  - a. Lightweight, plastic-wrapped, or bagged waste containing friable asbestos must be unloaded manually by hand or via fork-lift (i.e., not direct dumping from dump trucks, roll-off containers, or dumpsters will be permitted).
  - b. Friable asbestos packaged in durable containers, such as drums or boxes, may be dumped directly from the conveyance.
  - c. In order to direct dump friable asbestos packaged in supersacks, the package must be closed properly per the manufacturer's instructions or by generator procedure and must not contain material that may puncture or rupture the package during dumping.
7. Waste approved for disposal via an individual special waste letter may differ from the guidance in this attachment.
8. **The generator shall coordinate delivery with ORR Landfill personnel at least one working day in advance.**
9. Friable asbestos is accepted at ILF-V. Waste shipments must be at the Truck Receiving Station at least 30 minutes prior to the close of waste receipts.

### 3. NON-FRIABLE ACM

Non-friable ACM is classified as either Category I ACM or Category II ACM. Asphalt roofing products, which may contain asbestos, include built-up roofing; asphalt-containing single-ply membrane system; asphalt shingles; asphalt containing underlayment felts; asphalt containing roofing coatings and mastics; and asphalt-containing base flashings. ACM roofing products that use other bituminous or resinous binders (such as coal tars or pitches) are also considered to be Category I ACM. Category II ACM includes all other non-friable ACM, for example, asbestos-cement tiles, and transite boards or panels containing more than 1 percent asbestos.

For projects that involve handling of non-friable ACM, appropriate regulatory and industrial hygiene guidance requires that the work be performed in a manner to maintain the non-friability of the ACM. For non-friable Category I and II ACM to be classified as non-friable waste and be eligible for handling under the designation of “non-friable” ACM, the removal operations must conform to the requirements specified in the federal regulations (40 *CFR* Part 61, Appendix A to Subpart M, “ Interpretive Rule Governing Roof Removal Operations”).

All friable ACM, RACM, and Category I non-friable ACM in poor condition shall be handled separately under the friable ACM handling requirements. **Non-friable Category I and II ACMs that become friable during the removal, loading, and transporting operations shall be managed under the friable ACM handling and disposal requirements described in Sect. 3.2 of this attachment.**

Bulk disposal of Category I non-friable ACM mixed with demolition debris is acceptable, as described below:

- Prior to demolition of structures and facilities, the Waste Generators will perform all necessary actions to identify and remove all ACM, except for Category I non-friable ACM that is not in poor condition and is not friable prior to demolition. The determination of the category and condition of the ACM shall be made by Asbestos Hazard Emergency Response Act Accredited Asbestos Inspectors using proceduralized processes (e.g., UCOR Procedure PROC-IH-5177, *Asbestos and Other Fibrous Materials*, or equivalent) incorporating EPA criteria of visual and tactile methods as found in EPA guidance documentation. If it is determined that the Category I non-friable ACM is in poor condition and either friable or will become friable during demolition, it will be considered RACM, and it shall be removed from the facility prior to demolition of the facility. The remaining Category I non-friable ACM that is not in poor condition and is not friable prior to demolition may be left in the structures/facilities for demolition.
- In addition, the Waste Generators shall follow appropriate demolition methods as described in EPA document *A Guide to Normal Demolition Practices Under the Asbestos NESHAP* (EPA-340/1-92-013) to minimize the potential for converting the Category I non-friable ACM to RACM during demolition of structures and facilities, handling of the waste at the demolition site, loading of the waste into waste transport vehicles, and transporting the waste to the ORR Landfills.
- The resulting Category I non-friable ACM mixed with demolition debris shall be managed as bulk non-friable ACM, as described below.
  - The label or tag describing the contents of each container must include the following words and must be visible on each waste package:

**Non-friable Asbestos**

- The *Asbestos Waste Shipment Record* is NOT required.

1. Personnel within 1 ft of unloading operations shall, as a minimum, wear a respirator with cartridges for asbestos protection, unless personnel are inside a totally enclosed cab with all windows, vents, openings, etc. closed. All non-essential personnel shall stay out of the unloading area. Waste Generators/Waste Generators shall provide any personal protective equipment they need for the unloading operations.
2. Packaging for bulk handling of non-friable ACM (Category I and II) shall be performed as follows:
  - a. Bulk Shipment of Non-Friable ACM in Non-Dedicated Use Dump Trucks, Intermodals, Roll-off Containers, and Similar Transport Containers:
    - The non-friable ACM shall be kept adequately wet during demolition and loading (without creating free liquids problems).
    - A single layer (minimum) of 6-mil (minimum) plastic sheeting shall wrap the entire load. Sealed bladder bags or sealed supersacks, which are specifically designed for asbestos containment, may be used in lieu of the plastic sheeting. If plastic sheeting is used, it shall comply with the following:
      - Use oversize plastic sheeting to line the empty transport conveyance
      - After the non-friable ACM is placed in the lined conveyance, the loose edges of the plastic sheets shall be lapped over the top of the ACM and sealed.
    - A tarp or metal lid shall cover the entire load and the tailgate/door shall be closed.
    - Asbestos label(s) shall be applied to comply with 29 *CFR* 1926.1101(k)(8) and shall include the words “Non-Friable Asbestos.”
  - b. Bulk Shipment of Non-Friable ACM in Dedicated Use Dump Trucks, Intermodals, Roll-off Containers, and Similar Transport Containers:
    - The non-friable ACM shall be kept adequately wet during demolition and loading (without creating free liquids problems).
    - The containers shall be dust-tight and leak-tight via closed, gasketed doors and closed tarps or metal covers/lids.
    - No liner or plastic sheeting shall be required.
    - Asbestos label(s) shall be applied to comply with 29 *CFR* 1926.1101(k)(8) and shall include the words “Non-Friable Asbestos.”
    - The containers shall be dedicated to ACM use until the units are decontaminated, in accordance with OSHA regulation 29 *CFR* 1926.1101.
  - c. Bundled/Stacked Transite Panels:
    - The non-friable ACM shall be kept adequately wet during demolition and loading (without creating free liquids problems).
    - Each bundle of transite shall be wrapped, closed, and sealed in a single (minimum) layer of 6-mil (minimum)-thick plastic sheeting. Sealed bladder bags or sealed supersacks, which are specifically designed for asbestos containment, may be used in lieu of the plastic sheeting.

- Asbestos labels shall applied to each bundle to comply with 29 *CFR* 1926.1101(k)(8) and shall include the words “Non-Friable Asbestos.”
5. Unloading shall be done carefully to keep the materials in the wrapping as much as possible and to maintain the non-friability of the ACM. Unloading is the responsibility of the Waste Generator and Waste Generator.
  6. **The generator shall coordinate delivery with ORR Landfill personnel at least one working day in advance.**
  7. Non-friable ACM waste is normally disposed in CDL-VII instead of ILF-V (waste in drums must be disposed in ILF-V). Waste shipments must be at the Truck Receiving Station at least 15 minutes prior to the close of waste receipts.

*TDEC's Form CN-1054—Asbestos Waste Shipment Record—may be used. An example of an equivalent form (and instructions) is provided on the following two pages.*



State of Tennessee  
 Department of Environment and Conservation  
 Division of Air Pollution Control  
 William R. Snodgrass Tennessee Tower  
 312 Rosa L. Parks Avenue, 15<sup>th</sup> Floor  
 Nashville, TN 37243-1531  
 615-532-0554

**Asbestos Waste Shipment Record**  
 (See Completion Instructions on Reverse)

<b>GENERATOR</b>	1. Work site name and mailing address		Owner's name	Owner's telephone no.
	2. Operator's name and address			Operator's telephone no.
	Authorized agent: _____			
	3. Waste disposal site (WDS) name, mailing address, physical site location:		WDS phone no.	
			Permit No.	
	4. Name and address of responsible agency: Tennessee Department of Environment & Conservation Division of Air Pollution Control William R. Snodgrass Tennessee Tower 312 Rosa L. Parks Avenue, 15 <sup>th</sup> Floor Nashville, TN 37243-1531			
	5. Description of waste:	6. Containers No. _____ Type _____ (See instructions for type code)		7. Total quantity _____ yd <sup>3</sup> _____ gal
	8. Special handling instructions and additional information:			
9. OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.				
Printed/typed name _____ Title _____ Date _____				
<b>TRANSPORTER</b>	10. Transporter # 1 (Acknowledgement of receipt of waste)			
	Printed/typed name _____ Title _____ Date _____			
	Signature _____ Phone ( _____ ) _____			
	Address _____			
11. Transporter # 2 (Acknowledgement of receipt of waste)				
Printed/typed name _____ Title _____ Date _____				
Signature _____ Phone ( _____ ) _____				
Address _____				
<b>DISPOSAL SITE</b>	12. Discrepancy indication space:			
	13. Waste disposal site owner or operator: Certification of receipt of asbestos materials covered by this manifest except as noted in item 12.			
	Printed/typed name _____ Title _____ Date _____			
Signature _____ Phone ( _____ ) _____				

## Instructions for Completing Tennessee Asbestos Waste Shipment Record (Form CN-1054)

### **Waste Generator Section (Items 1-9)** NOTE: The waste generator must retain a copy of this form.

1. Enter the name and address of the facility at which asbestos waste is generated. In the appropriate spaces, also enter the name of the owner of the facility and the owner's phone number.
2. If a demolition or renovation, enter the name and address of the company and the **authorized agent** responsible for performing the asbestos removal. In the appropriate space, also enter the phone number of the operator.
3. Enter the name, address, and physical site location of the waste disposal site (WDS) that will be receiving the materials. In the appropriate spaces, also enter the phone number and permit number of the WDS. Enter "on-site" if the waste will be disposed of on the generator's property.
4. Provide the name and address of the local, state, or EPA regional office responsible for administering the asbestos NESHAP program.
5. Indicate the types of asbestos waste materials generated. If from a demolition or renovation, indicate the amount of asbestos that is
  - Friable asbestos material
  - Non-friable asbestos material
6. Enter the number of containers used to transport the asbestos materials listed in item 5. Also enter one of the following container codes used in transporting each type of asbestos material (specify any other type of container used if not listed below):
  - DM** - Metal drums, barrels
  - DP** - Plastic drums, barrels
  - BA** - Plastic bags or wrapping
7. Enter the quantity of each type of asbestos material removed in units of cubic yards (or gallons if drums or barrels are used).
8. Use this space to indicate special transportation, treatment, storage or disposal or Bill of Lading information. If an alternate waste disposal site is designated, note it here. Emergency response telephone numbers or similar information may be included here.
9. The **authorized agent** of the waste generator must read and then sign and date this certification. The date is the date of receipt by transporter.

### **Transporter Section (Items 10 & 11)** NOTE: The transporter must retain a copy of this form.

10. Enter the name, address, and telephone number of transporter used. Print or type the full name and title of person accepting responsibility and acknowledging receipt of materials as listed on this waste shipment record for transport. Enter date of receipt and signature.
11. Enter same information as item 10 requires if more than one transporter is used.

### **Disposal Site Section (Items 12 & 13)**

12. The authorized representative of the WDS must note in this space any discrepancy between waste described on this manifest and waste actually received as well as any improperly enclosed or contained waste. Any rejected materials should be listed and destination of those materials provided. A site that converts asbestos-containing waste material to non-asbestos material is considered a WDS.
13. The signature (by hand) of the authorized WDS agent indicates acceptance and agreement with statements on this manifest except as noted in item 12. The date is the date of signature and receipt of shipment.

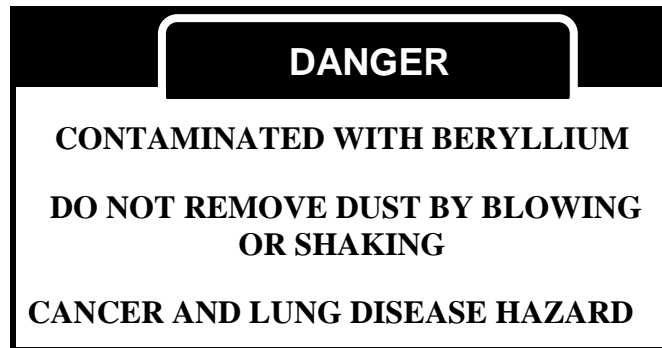
**NOTE: The WDS must retain a completed copy of this form for at least 2 years. The WDS must also send a completed copy to the operator listed in item 2.**



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## ATTACHMENT 4 SPECIAL WASTE: BERYLLIUM OXIDE WASTE

1. **Beryllium oxide (BeO) waste**, including wood, paper, clothing, piping, metal, equipment, and demolition material that is contaminated with BeO shall be managed as follows:
  - a. **Shall be packaged and sealed tightly in double-bagged 6-mil-thick plastic bags, double-wrapped 6-mil-thick plastic sheeting, fiber drums, metal drums, or plywood boxes.**
  - b. Shall be labeled (or equivalent) as shown below:



- “Danger” is in white letter on a red oval, which is imposed on a larger white oval on a place rectangle. The text is black on a white background. The border is black.
- c. Shall be accompanied by a completed and signed *Generator’s/Shipper’s Log for Beryllium Oxide Removal and Disposal* (Form-335), for each load of waste, in addition to the documents specified in Chap. 5 of this profile.
  - d. **If the waste is bagged, it shall be transported in a fully enclosed space or fully covered by a secured tarpaulin. Wastes in drums and boxes shall be transported using standard transport vehicles only.**
  - e. Personnel within 100 ft of unloading operations shall, as a minimum, wear respiratory protection, unless personnel are inside a totally enclosed cab with all windows, vents, openings, etc. closed. All non-essential personnel shall stay out of the unloading area. Waste Generators/Waste Generators shall provide any personal protective equipment they need for the unloading operations
  - f. The Waste Generator shall exercise extreme care in off-loading the waste to avoid rupturing the package. Unloading is the responsibility of the Waste Generator/Transporter.
    - Lightweight, plastic-wrapped, or bagged waste containing BeO must be unloaded manually by hand or via fork-lift (i.e., not direct dumping from dump trucks, roll-off containers, or dumpsters will be permitted).
    - BeO packaged in durable containers, such as drums or boxes, may be dumped directly from the conveyance.
  - g. Waste approved for disposal via an individual special waste letter may differ from the guidance in this attachment.

- h. **The generator shall coordinate delivery with ORR Landfill personnel at least one working day in advance.**
- i. Beryllium oxide wastes are accepted at ILF-V. Waste shipments must be at the Truck Receiving Station at least 30 minutes prior to the close of waste receipts.

*UCOR Form-335—Generators/Shippers Log for Beryllium Oxide Disposal—shall be used. An example is provided on the following page.*



## Generator's/Shipper's Log for Beryllium Oxide Removal and Disposal

### SECTION I – DESCRIPTION OF BeO-CONTAINING WASTES

DATE LOADED	NUMBER OF CONTAINERS	TYPE OF CONTAINERS	TOTAL WEIGHT (POUNDS)	TOTAL VOLUME (CUBIC YARDS)
-------------	----------------------	--------------------	-----------------------	----------------------------

DESCRIPTION and SPECIAL HANDLING

### SECTION II – NAME/ADDRESS OF SITE FROM WHICH REMOVED

PLANT SITE \_\_\_\_\_, OAK RIDGE, TN.

BUILDING(S) AND AREA(S) \_\_\_\_\_

### SECTION III – NAME/ADDRESS OF FACILITY TO WHICH CONTAINER SENT FOR STORAGE OR DISPOSAL (check one)

Y-12 INDUSTRIAL LANDFILL V, OAK RIDGE, TN       OTHER (specify)

### SECTION IV – TRANSPORTER INFORMATION (Company Name / Address)

RFD (2109) NUMBER	JOB OR CHARGE NUMBER
-------------------	----------------------

### SECTION V – WASTE DELIVERY (to be completed by Transporter)

DELIVERY NUMBER	DATE DELIVERED	TRUCK TAG NUMBER
-----------------	----------------	------------------

### SECTION V – CERTIFICATION BY PERSON RESPONSIBLE FOR REMOVAL OPERATIONS

I hereby certify that the above record of waste shipped is complete and accurate, and that the waste was packaged and transported as specified in the approval letter.

GENERATOR	TRANSPORTER #1	TRANSPORTER #2
NAME	NAME	NAME
AFFILIATION	AFFILIATION	AFFILIATION

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## **ATTACHMENT 5 SPECIAL WASTE: DEAD ANIMALS**

Occasionally, there is a need to dispose of dead animals from the ORR. These animals may result from incidents such as highway accidents, discovery of dead animals on a plant site, or extermination projects. Consequently, the following guidance is provided for disposal of nonhazardous, nonradioactive dead animals. Dead animals will be disposed of in ILF-V.

1. Dead animals shall be wrapped in plastic and packaged in a sealed container.
2. At least one working day advance notice shall be provided to the WAT or Landfill Facility Manager prior to shipment of such waste to the landfill.
3. The following animals are prohibited from disposal:
  - Animals containing and/or contaminated with hazardous materials, as defined in 40 *CFR* Part 261 (*Identification and Listing of Hazardous Waste*) or Tennessee Hazardous Waste Management Regulations.
  - Animals containing and/or contaminated with radioactive materials, as defined by the Atomic Energy Act of 1954, amended.
  - Animals containing and/or contaminated with carcinogens or suspected carcinogens.
  - Animals containing and/or contaminated with PCBs.

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## **ATTACHMENT 6**

### **SPECIAL WASTE: EMPTY HAZARDOUS MATERIAL CONTAINERS**

Containers that have contained hazardous materials and that meet the requirements for empty<sup>4</sup> containers in Rule 0400-12-01-.02(1)(g) of *Rules of the Tennessee Department of Environment and Conservation Division of Hazardous Waste Management* may be disposed of in ILF-V. Glass and plastic laboratory chemical containers meeting the definition of *empty* in the regulations referenced above may be crushed prior to disposal in ILF-V.

1. Empty hazardous material containers must have the following information documented on the DR:
  - a. No free liquids must be stated on the request
  - b. Type of absorbent added and approximate quantity if added to the container
  - c. Contact information of responsible person that performed free-liquid verification

---

<sup>4</sup>The referenced hazardous waste regulations indicate that residual quantities of materials can be left in containers; however, wastes containing “free liquids” are prohibited from disposal in the ORR Landfills. Therefore, Waste Generators shall take appropriate measures (e.g., completely draining the containers, adding absorbent materials) to ensure that empty containers delivered to the ORR Landfills do not contain residual free liquids.



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**ATTACHMENT 7**  
**SPECIAL WASTE: EMPTY AEROSOL CANS AND**  
**NON-PRESSURIZED GAS CYLINDERS**

Empty aerosol cans and empty gas cylinders (reference Bureau of Explosives Specification Number 39) shall be considered empty when the pressure in the container is at atmospheric pressure. Cans/cylinders shall be packaged in sealed fiber drums, metal drums, or 6-mil-thick plastic bags. Cylinders may be secured to clean pallets. Empty aerosol cans and empty non-pressurized gas cylinders shall **not** be placed in bulk solid waste receptacles (dumpsters). The generator must coordinate delivery with the Landfill WAT or Facility Manager at least one working day in advance of delivery.

Empty aerosol cans and gas cylinders shall be disposed of in ILF-V.

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## ATTACHMENT 8

### SPECIAL WASTE: EMPTY PESTICIDE CONTAINERS

The following guidance will be used for the disposal of empty pesticide containers. This guidance generally follows the guidelines found in 40 *CFR* 165.9, *Recommended Procedures for the Disposal of Pesticide Containers and Residues*. Empty pesticide containers shall be disposed of in ILF-V.

If the container is made of paper, cardboard, or other materials that would deteriorate upon rinsing with water, the container shall be shaken vigorously to remove all residue. The residue will be collected and used along with the bulk of the pesticide. All cardboard boxes will be crushed. The containers will be sealed in plastic bags.

If the container is metal, fiber, or other wettable material, it will be rinsed three times. The rinse liquid will be added to the spray mixture. Each rinsing will be done with a volume of water (or other normal dilutant) equal to approximately one-fourth of the container volume. After the final rinse, the container will be punctured and drained prior to disposal.

In the event that the contents of the container included a listed acute hazardous waste (40 *CFR* 261.33) and if the container is made of paper, cardboard, or other material that would be deteriorated by rinsing with water, this container shall be disposed of as a hazardous waste. If the container can be triple-rinsed without deteriorating, the procedure given above for wettable material containers may be used.

The following is a list of substances that are used in pesticides and that are classified as acute hazardous wastes upon disposal:

<u>SUBSTANCE</u>	<u>CHEMICAL ABSTRACTS NO.</u>
Acetic acid, fluoro-, sodium salt	62-74-8
Acrolein	107-02-8
Aldicarb	116-06-3
Aldrin	309-00-2
Allyl alcohol	107-18-6
Aluminum phosphide (R,T)	20859-73-8
4-Aminopyridine	504-24-5
Arsenic acid H <sub>3</sub> AsO <sub>4</sub>	7778-39-4
Arsenic oxide As <sub>2</sub> O <sub>3</sub>	1327-53-3
Arsenic trioxide	1327-53-3
Calcium cyanide	592-01-8
Calcium cyanide Ca(CN) <sub>2</sub>	592-01-8
Carbon disulfide	75-15-0
Copper cyanide	544-92-3
Copper cyanide Cu(CN)	544-92-3
Cyanogen chloride	506-77-4
Cyanogen chloride (CN)Cl	506-77-4
2-Cyclohexyl-4,6-dinitrophenol	131-89-5
Dieldrin	60-57-1
O,O-Diethyl O-pyrazinyl phosphorothioate	297-97-2
Dimethoate	60-51-5
4,6-Dinitro-o-cresol, & salts	<sup>1</sup> 534-52-1
Dinoseb	88-85-7
Disulfoton	298-04-4
Endosulfan	115-29-7

**SUBSTANCE****CHEMICAL ABSTRACTS NO.**

Endothall	145-73-3
Endrin	72-20-8
Endrin, & metabolites	72-20-8
Famphur	52-85-7
Fluoroacetamide	640-19-7
Heptachlor	76-44-8
Hydrocyanic acid	74-90-8
Hydrogen cyanide	74-90-8
Hydrogen phosphide	7803-51-2
Isodrin	465-73-6
Methomyl	16752-77-5
Methyl parathion	298-00-0
alpha-Naphtylthiourea	86-88-4
Nicotine, & salts	<sup>1</sup> 54-11-5
Parathion	56-38-2
Phenylmercury acetate	62-38-4
Phorate	298-02-2
Phosphine	7803-51-2
2-Propenal	107-02-8
Sodium azide	26628-22-8
Sodium cyanide	143-33-9
Sodium cyanide Na(CN)	143-33-9
Strychnidin-10-one, & salts	<sup>1</sup> 57-24-9
Tetraethyl pyrophosphate	107-49-3
Thallium (I) sulfate	7446-18-6
Thiofanox	39196-18-4
Thiourea, 1-naphthalenyl-	86-88-4
Toxaphene	8001-35-2
Warfarin & salts, when present at concentrations greater than 0.3%	<sup>1</sup> 81-81-2
Zinc phosphide Zn <sub>3</sub> P <sub>2</sub> , when present at concentrations greater than 10% (R,T)	1314-84-7

<sup>1</sup>Chemical Abstracts Service Number given for parent compound only.

These compounds have other names commonly used and included as such in the EPA's Title III List of Lists. They are listed below, along with their chemical abstracts number.

**SUBSTANCE****CHEMICAL ABSTRACTS NO.**

Campechlor	8001-35-2
PMA	62-38-4
TEPP	107-49-3
Thionazin	297-97-2

**ATTACHMENT 9  
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## **ATTACHMENT 10**

### **SPECIAL WASTE: PETROLEUM PRODUCT CONTAMINATED SOIL**

Occasionally, soil contaminated with petroleum product or spill cleanup residues may be disposed of in ILF-V. In order to safely dispose of the waste, the following procedures will be followed.

1. All free liquid gasoline or other petroleum products must be removed from the soil or spill cleanup residues before they are taken to the landfill. As much of the petroleum product will be removed from the material as can practically be removed and will be recycled or disposed of in an appropriate manner.
2. The contaminated soil or spill cleanup residues will be tested and must be found to contain less than the RCRA-hazardous waste limits for benzene and lead before they are taken to the landfill. Soil with other chemical or radiological contamination is not included under this blanket special waste approval, and the soil/waste will be subject to a separate evaluation as a special waste.
3. The landfill technician and the equipment operator shall be notified in advance that the contaminated soils and residues could present a fire hazard (flammable materials should not be sent to the landfill) and will act accordingly. There will be no smoking around the waste and minimum contact with sources of heat or sparks from the equipment. Clean soil or cool fly ash will be pushed over the contaminated soil or cleanup residues before it is graded and compacted. Fire extinguishers will be readily available during the disposal operation.
4. Only soil from petroleum product spill cleanups in locations that are not known or believed to be contaminated with hazardous or radioactive constituents will be accepted.
5. Prior to shipment of the waste to the landfill, the Waste Generator shall provide the following information to the Landfill WAT. A report will be made to TDEC following each petroleum product spill cleanup incident in which the soil or residues are placed in ILF-V, in accordance with this approval. This report will contain the following information:
  - The location and nature of the spill
  - A laboratory analysis of the contaminated soils and residues showing TCLP hazardous waste limits for benzene and lead are not exceeded
  - The date of each disposal, with the estimated quantity of waste disposed.



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## **ATTACHMENT 11 OTHER WASTE: GLASS**

In general, glass will be crushed by in-plant facilities prior to delivery and disposal in ILF-V. As circumstances arise, disposal of uncrushed glass at the landfill may be allowed at the discretion of the Landfill WAT. All glass chemical containers to be disposed of in the landfill shall be empty as defined in Rule 0400-12-01-.02(1)(g) of *Rules of the Tennessee Department of Environment and Conservation Division of Hazardous Waste Management*. In all cases, the condition of the glass and method of handling the glass will be selected on the basis of ensuring the safety of the equipment operators and other site operating personnel. The glass will be placed on the working face of the refuse cell and compacted, along with other daily refuse. If operating experience at the facility dictates, the glass may be spread and covered with 6 in. of compacted soil immediately following each such disposal to promote safe operating conditions for personnel and to minimize damage to delivery vehicles.

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## **ATTACHMENT 12 SPECIAL WASTE: EMPTY PAINT CANS**

As a result of ongoing construction and maintenance programs, empty paint cans are generated by DOE contractors in Oak Ridge Operations. Most waste paint cans have a capacity of 5 gal or less. Empty paint cans containing small amounts of dry paint residue will be disposed of in ILF-V.

Waste paint cans containing large amounts of dry paint residue will be disposed of as hazardous waste per *Rules Governing Hazardous Waste Management in Tennessee* and/or screened by TCLP and ignitability tests in the subject hazardous waste management rules. If these tests are conducted, the test results will be considered representative for later disposal of paint residue of the same brand and generic type. Liquid paint will not be allowed in the landfill.

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**ATTACHMENT 13  
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## ATTACHMENT 14

### SPECIAL WASTE: TREATED BIOLOGICAL/MEDICAL WASTES

1. Untreated medical/biological wastes are prohibited from landfill disposal using this blanket approval and require individual review and approval by TDEC prior to disposal.
2. Liquid biological/medical waste shall not be discarded in the industrial waste receptacles, since liquid wastes are prohibited from landfill disposal.
3. Small quantities of non-radiologically contaminated, non-liquid medical, and noninfectious institutional (biological) waste (except for sharps, such as needles, glass, knives or razor blades, or broken glass) may be placed in the regular industrial waste dumpsters and considered profiled under Master Profile S-020, if the following conditions are met:
  - a. The waste shall meet the landfill acceptance criteria and shall be consistent with the landfill operating permit requirements.
  - b. A written description of the treated waste must be provided to the landfill.
  - c. The wastes shall be packaged and rendered non-infectious prior to disposal (e.g., by autoclaving or other sterilization process) and the waste package shall be prominently labeled as TREATED MEDICAL WASTE or TREATED BIOLOGICAL WASTE. The waste package shall be sealed and shall also be prominently labeled with the generator's name, building number, and phone number.
  - d. A written and signed verification must be provided to the landfill that the waste has been rendered non-infectious.
  - e. The generator must provide advance notice to the landfill operator prior to delivering medical/biological wastes.
4. Bulk quantities of non-infectious and uncontaminated institutional waste and biological waste (e.g., a sample freezer cleanout of non-contaminated fish or animal carcasses) are acceptable for disposal. To arrange for disposal, the generator shall contact the WAT or Landfill Facility Manager and request guidance on waste delivery.
5. Sharps, used and unused, that have been treated and destroyed (i.e., that have been put through a shredder-grinder, hammer mill, or other equivalent destructive treatment technology) that are solidified and packaged may be placed in sealed, labeled containers.
6. Medical/biological sharps, used and unused, that have been treated, but not destroyed (i.e., not put through a shredder-grinder, hammer mill, or other equivalent destructive treatment technology) shall be placed in puncture-proof containers, appropriately labeled, and sent directly to the landfill for disposal. These may, if necessary, be accumulated in a designated locked dumpster prior to separate shipment to the landfill.
7. Treated medical/biological wastes shall be disposed in ILF-V.



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## **ATTACHMENT 15**

### **OTHER WASTE: BIRD DROPPINGS**

1. Cleanup of bird droppings occurs at the facilities on the DOE ORR. Bird droppings may contain fungi that cause lung diseases. In accordance with communications with TDEC, disposal of bird dropping waste can be accepted for disposal in ILF-V without a special waste application, if the following precautions are taken:
  - The waste shall be managed to prevent airborne releases
  - The waste shall be properly and thoroughly treated with bleach and lime to eliminate the biological hazard (the Waste Generator shall obtain detailed disinfection instructions from the generator's Industrial Hygiene or Environmental Health and Safety representative)
  - The treated waste shall be packaged in sealed containers (i.e., sealed bucket or drum)
  - The containerized waste should be carefully transported and unloaded to avoid rupturing the container
  - The waste shall be covered with soil prior to waste compaction
2. No free liquids will be allowed for landfill disposal. Extra lime may be used to prevent free liquids.
3. Due to the potential for generation of gas from the decomposition of the bird droppings, the containers should be promptly disposed of after container sealing is performed.
4. At least one working day advance notice shall be provided to the WAT or Landfill Facility Manager prior to shipment of such waste to the landfill.
5. The Waste Generator shall indicate in the waste description on the DR "bird droppings that have been treated to eliminate biological hazards."
6. Bird dropping waste contaminated with chemical contaminants or residual levels of radioactive materials will be subject to the special waste application process described in Attachment 1.
7. Management of bird dropping waste that does not comply with the above requirements will require TDEC special waste approval prior to acceptance of the waste at the landfill.

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**ATTACHMENT 16  
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# ATTACHMENT 17

## SPECIAL WASTE: WASTES VOLUMETRICALLY CONTAMINATED WITH RESIDUAL RADIOACTIVE MATERIALS

(Attachment 17 contains Appendices A and B.)

### 1. INTRODUCTION

TDEC has developed and established for DOE the *Memorandum of Understanding between the Tennessee Division of Radiological Health and the Tennessee Division of Solid Waste Management* (Reference 1) for the disposal of solid wastes volumetrically contaminated with residual radioactive materials in ILF-V and CDL-VII on the ORR. This Memorandum of Understanding requires that solid wastes be appropriately characterized in accordance with the *Sampling and Analytical Summary for Special Waste Permit Requests for Industrial Landfill V & Construction/Demolition Landfill VII Involving Volumetrically Contaminated Materials* (Appendix B and Reference 2) and evaluated in accordance with *Volumetric Screening Criteria and Compliance Calculations for Industrial Landfill V & Construction/Demolition Landfill VII* (Reference 3).

### 2. APPLICABILITY

These requirements are applicable to solid wastes that meet the requirements for disposal in ILF-V and CDL-VII and are volumetrically contaminated with radionuclides listed in Table 1. These requirements and the associated screening criteria do not apply to wastes proposed for disposal in any other facility, to surface-contaminated waste that would be considered a Surface-Contaminated Object, or to wastes volumetrically contaminated with radionuclides other than those listed in Table 1 of this attachment.

**Table 1. Volumetric screening criteria**

Radionuclide <sup>1,2</sup>	Authorized limit <sup>3</sup> (pCi/g)	Hot-spot limit <sup>4</sup> (pCi/g)	Detection limit <sup>5</sup> (pCi/g)	Dose-based screening criteria
H-3	150	1500	15.0	150
C-14	30	300	3.0	62
Co-60	2	20	0.2	2
Sr-90	30	300	3.0	4800
Tc-99	40	400	4.0	150
Cs-137	10	100	1.0	10
Eu-152	5	50	0.5	5
Eu-154	5	50	0.5	5
Ra-226	3	30	0.3	3
Th-230	3	30	0.3	5
Th-232	3	30	0.3	5
U-234	35	175	3.5	120
U-235	35	175	3.5	37
U-238	35	175	3.5	95
Total U	35	175	3.5	100
Np-237	3	30	0.3	5
Pu-238	3	30	0.3	40
Pu-239	3	30	0.3	37
Am-241	3	30	0.3	35

<sup>1</sup>See Appendix A for additional information regarding background concentrations and other radionuclides.

<sup>2</sup>It is not necessary to analyze for all the listed radionuclides, unless they are expected contaminants.

<sup>3</sup>The authorized limit is the smaller of the dose-based screening criteria or the administrative limit, as described in Reference 5.

<sup>4</sup>The hot-spot limit is the highest single concentration allowed for each radionuclide listed in a set of data.

<sup>5</sup>The detection limit listed is ten percent of the authorized limit. Detection limits must be less than the authorized limit.

### 3. SAMPLING AND ANALYTICAL REQUIREMENTS

The waste shall be characterized by sampling and analysis, and characterization shall be performed in accordance with nationally recognized standards. It is recommended that characterization be performed in accordance with the requirements of EPA Document SW-846, *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods* (Reference 6). A sampling plan shall be developed and implemented for characterizing the waste, and it is recommended that the sampling plan be developed in accordance with Chap. 9 of SW-846, "Sampling Plan."

NDA measurement technologies (e.g., gamma spectrometry systems such as the In-Situ Object Counting System) may be used for characterization of waste for disposal at ILF-V, either independently or in combination with physical sampling and laboratory analysis (Reference 7). NDA measurement technologies and providers must be qualified through the DOE Consolidated Audit Program or licensed by the TDEC Division of Radiological Health. Use of NDA techniques may be appropriate for waste streams that have appropriate physical characteristics consistent with the approved NDA program plans and procedures, and where the radiological constituents of concern are amenable to NDA measurements and the relative isotopic composition of the waste is known.

The sampling plan shall address the following:

- A. Provide administrative information including, but not limited to, the following: name of contractor/subcontractor, name of contractor/subcontractor representative, and name of waste stream.
- B. Provide a physical description of the waste, including the approximate volume.
- C. Explain how the waste was generated and describe the history of the material/waste.
- D. State whether the waste will be sampled in accordance with SW-846. If not, provide an explanation of why SW-846 is not appropriate and describe the sampling protocol that will be followed, including how the minimum number of samples was determined.
- E. Explain how the samples will be taken, including the sample size and the number of samples to be obtained.
- F. Discuss the extent to which samples will be composited and provide the basis upon which the compositing will be performed (i.e., over what volumes of waste will samples be composited).
- G. Identify the radionuclides that will be analyzed for and explain the basis upon which these radionuclides were selected for analysis (e.g., existing data, historical PK).
- H. If the waste characterization is based on NDA:
  - Describe the non-destructive testing methodology to be used and the justification for selection of this methodology.

- Discuss the PK or analytical documentation used to determine the waste stream physical characteristics are amenable to the use of the selected NDA techniques and to determine the relative isotopic composition of the waste.
- Describe the qualifications of the provider.

#### **4. DATA REVIEW**

The Waste Generator should review the laboratory data resulting from the sampling and analysis of the waste to ensure the data are complete, properly identified, reasonable, and meet the requirements of the sampling and analysis plan. The laboratory data used in the calculations described below should be final approved data that has successfully passed through the laboratory's quality control/quality assurance program, and any analytical difficulties (e.g., matrix interferences) should be appropriately resolved. Any deviations from the sampling plan should be explained/justified and documented.

#### **5. VOLUMETRIC SCREENING AND COMPLIANCE CALCULATIONS**

##### **5.1 Volumetric Screening and Compliance Calculation Spreadsheet**

DOE and TDEC have developed the *Volumetric Screening Criteria and Compliance Calculations for Industrial Landfill V & Construction/Demolition Landfill VII* spreadsheet for use in determining whether solid waste volumetrically contaminated with residual radioactive materials are suitable for disposal in ILF-V and/or CDL-VII. The spreadsheet includes the dose-based screening criteria, administrative limits, and hot-spot limits; determines if the sample mean exceeds the individual criteria/limit; calculates the ratio of the mean concentration in the waste to the screening criteria for the individual radionuclides; performs the "sum of fraction" calculation and compares the sum of fraction result with unity; and determines if the maximum sample concentration exceeds the hot-spot criteria.

In addition, the spreadsheet determines whether or not the sample data passes or fails the individual radionuclide (isotopic) screen, the hot-spot screen, and the sum of fraction screen. The spreadsheet can also perform adjustment calculations for background concentrations of radium (Ra)-226, thorium (Th)-230, and Th-232 in soil and other wastes, if appropriate supporting information is provided (see Appendix A). The spreadsheet also presents one of the following conclusions "This data set passes screening criteria" or "This data set fails screening criteria." The spreadsheet does not perform the statistical calculations to calculate the mean and standard deviation for each radionuclide.

A copy of the spreadsheet may be obtained by contacting the WAT.

##### **5.2 Data Input**

If the data are complete and justifiable for use, the Waste Generator should input the data for each radionuclide of concern into the *Volumetric Screening Criteria and Compliance Calculations for Industrial Landfill V & Construction/Demolition Landfill VII* spreadsheet, as described below.

- A. Input the number of samples/detects.
- B. Input the minimum concentration in pCi/g.
- C. Input the maximum concentration in pCi/g.



- D. Calculate (see Note 4) and input the mean concentration in pCi/g.
- E. Calculate (see Note 4) and input the standard deviation of the mean in pCi/g.
- F. If the waste is not soil, ensure that the default background concentrations for Ra-226, Th-230, and Th-232 are set to the number zero (0.0). Use of background concentrations for Ra-226, Th-230, and Th-232 for wastes other than soil is subject to the justification requirements presented in Appendix A.

**Notes:**

- 1. Concentrations should be in pCi/g on a dry weight basis.
- 2. When data are reported as “less than values” or “not detected,” a concentration equivalent to one half of the detection limit should be used in the calculation of the mean.
- 3. When individual sample results are reported as negative numbers, these negative numbers can be included in the calculation of the mean. However, if a negative result is obtained for the calculation of the mean, this value should be entered as a zero in the *Volumetric Screening Criteria and Compliance Calculations for Industrial Landfill V & Construction/Demolition Landfill VII* spreadsheet.
- 4. The *Volumetric Screening Criteria and Compliance Calculations for Industrial Landfill V & Construction/Demolition Landfill VII* spreadsheet will **not** calculate the sample mean or standard deviation. Therefore, the Waste Generator will have to calculate the sample mean and standard deviation using the appropriate statistical formulas based on the statistical basis of the sampling plan. Table 9-1 in Chap. 9 of SW-846 presents statistical formulas for the sample mean and standard deviation, which are dependent on the statistical basis for the sampling (i.e., simple random sampling, systematic random sampling, or stratified random sampling). It is recommended that the Waste Generator develop a spreadsheet to calculate the sample mean and the standard deviation for the radionuclides of concern.

At a minimum, the spreadsheet should present the following information for each radionuclide: sample identification, number of samples, number of detects, analytical results for each sample, one half of the detection limit for each result that is reported as “less than value” or “not detected,” the formulas for calculating the mean and the standard deviation, the calculated mean for each radionuclide, and the calculated standard deviation for each radionuclide.

(Note: The *Mean and Standard Deviation Calculation* spreadsheet, available from the WAT, can be used for performing these calculations if the statistical basis of the sampling was based on simple random sampling or systematic random sampling in accordance with SW-846. This spreadsheet is a tool. If the data do not fit the parameters established for this spreadsheet, then another method should be used to determine the mean concentration and standard deviation of the mean.)

- 5. The Waste Generator should only input data into the *Volumetric Screening Criteria and Compliance Calculations for Industrial Landfill V & Construction/Demolition Landfill VII* spreadsheet for the number of samples/detects, minimum concentration, maximum concentration, mean concentration, and standard deviation. The Waste Generator must **not** change or tamper with the calculations and evaluation criteria built into the spreadsheet.

### 5.3 Results of Volumetric Screening

The *Volumetric Screening Criteria and Compliance Calculations for Industrial Landfill V & Construction/Demolition Landfill VII* spreadsheet will perform the necessary calculations to determine whether or not the residual radioactivity in the waste is acceptable for disposal in ILF-V. The results of the calculations will be presented adjacent to the “Conclusion,” which is under the table. The conclusion statement “This data set passes screening criteria” indicates the residual radioactivity in the waste is acceptable for disposal in ILF-V and/or CDL-VII. The conclusion statement “This data set fails screening criteria” indicates the waste is **not** acceptable for disposal in ILF-V and/or CDL-VII under the screening criteria.

Wastes that fail the volumetric screening criteria are not necessarily precluded from disposal in ILF-V or CDL-VII. Those wastes may be candidates for disposal, as detailed in Sect. 7 of this attachment.

## 6. DOCUMENTATION

If the waste successfully passes the volumetric screening process outlined in Sect. 5 and receives the conclusion statement “This data set passes screening criteria,” the Waste Generator shall prepare and submit the following documentation to the Landfill WAT. The documentation shall be high quality, well organized and labeled, checked by the Waste Generator, and suitable for transmission to DOE and TDEC by the Landfill WAT.

### 6.1 Sampling and Analytical Summary

The form in Appendix B shall be used for the compilation and presentation of the information described in Sect. 3 of this Attachment. In addition, the following information shall be provided on the summary or an attachment to the summary:

- A. Provide the detection limits (minimum detectable activities in pCi/g dry weight) for the analyses. The detection limits shall be less than or equal to the detection limits presented in Table 1, unless the result exceeds the detection limit, and must be less than the authorized limits provided in Table 1.
- B. Provide copies of the laboratory data, including the definitions of all abbreviations and data qualifiers.
- C. Provide justification and supporting documentation for background concentrations of radium and thorium, if the Waste Generator decides to use background concentrations of these radionuclides in wastes other than soil. Justification and supporting documentation is not required if the generator’s waste is soil and the background concentrations presented in Appendix A are used for these radionuclides.

### 6.2 Volumetric Screening Criteria and Compliance Calculations

- A. Provide the results of the calculations for the sample mean and standard deviation for the radionuclides of concern using the appropriate statistical formulas based on the statistical basis of the sampling plan. The information should include the following: sample identification, number of samples, number of detects, analytical results for each sample, the statistical basis for the sampling, the formulas for calculating the mean and the standard deviation, the calculated mean for each radionuclide, and the calculated standard deviation for each radionuclide. (Note: The

results from the *Mean and Standard Deviation Calculation* spreadsheet can be used to provide the necessary information.)

- B. Provide the results from the *Volumetric Screening Criteria and Compliance Calculations for Industrial Landfill V & Construction/Demolition Landfill VII* spreadsheet.

## 7. RADIONUCLIDES THAT EXCEED OR ARE NOT LISTED IN TABLE 1

If a waste is volumetrically contaminated with radionuclides that exceed or are not specifically included in Table 1, the Waste Generator may pursue disposal of those wastes in the ORR Landfills. The Waste Generator will be required to perform, or fund the performance of, residual radiation (RESRAD) modeling to determine the total effective dose equivalent for the proposed disposal of the waste in the applicable landfill; compare the calculated total effective dose equivalent to allowable effective dose equivalents, in accordance with DOE Order 458.1 and DOE EH-412 Memorandum, Subject: "Application of DOE 5400.5 requirements for release and control of property containing residual radioactive material," dated November 17, 1995 (Reference 8); and prepare "authorized limits" justification packages for the proposed disposal of the waste in the appropriate DOE landfill(s).

Prior to performance of such activities, the proposed activities and specific requirements of the RESRAD modeling shall be discussed with the Landfill WAT and other subject matter experts. The RESRAD modeling results, dose comparisons, and authorized limits justification packages will be submitted to DOE for review and approval. In addition, similar information plus waste characterization data will be submitted via a special waste evaluation application to the TDEC Division of Solid Waste Management and Division of Radiological Health for review and concurrence. It should be noted that considerable time and effort will be needed for completing this process.

8. **REFERENCES** (Note: References listed below are specific to this attachment and do not constitute the entire list of references cited in the complete profile.)

- 1 Tennessee Department of Environment and Conservation, *Memorandum of Understanding between the Tennessee Division of Radiological Health and the Tennessee Division of Solid Waste Management*, October 18, 2005
- 2 *Sampling and Analytical Summary for Special Waste Permit Requests For Industrial Landfill V & Construction/Demolition Landfill VII Involving Volumetrically Contaminated Materials*, June 14, 2012
- 3 *Volumetric Screening Criteria and Compliance Calculations for Industrial Landfill V & Construction/Demolition Landfill VII*, June 2007
- 4 U. S. Department of Energy, 2011, *Radiation Protection of the Public and the Environment*, DOE Order 458.1, February 11, 2011
- 5 *Authorized Limits for Disposal of Waste at Construction/Demolition Landfill VII at the Y-12 National Security Complex, Oak Ridge, Tennessee*, DOE-07-0429
- 6 U. S. Environmental Protection Agency, 1986, *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods*, Document SW-846, September 1986
- 7 Tennessee Department of Environment and Conservation, "RE: Request for Approval to Utilized Non-Destructive Assay Technologies for Wastes Exhibiting Extremely Low Levels of Radiological

*Contamination for Disposal in Resource Recovery and Conservation Act Subtitle D Landfills Located at the Y-12 Complex” October 20, 2012*

- 8 Memorandum from Raymond F. Pelletier to Distribution, *Application of DOE 5400.5 Requirements for Release and Control of Property Containing Residual Radioactive Material*, November 17, 1995

## **APPENDIX A**

(to Attachment 17)

### **A.1 BACKGROUND CONCENTRATIONS**

#### **A.1.1 SOILS OR EARTHEN-BASED WASTES**

With the exception of radium and thorium in soil or earthen-based wastes, background values will not be subtracted from the concentrations of potentially process-related radionuclides measured in the waste for the purpose of demonstrating compliance with the screening criteria. The default background concentrations for radium and thorium in soils and earthen-based wastes incorporated in the spreadsheet *Volumetric Screening Criteria and Compliance Calculations for Industrial Landfill V & Construction/Demolition Landfill VII* are as follows:

- Ra-226      1.1 pCi/g
- Th-230      1.0 pCi/g
- Th-232      0.95 pCi/g

These values are based on data collected on the Oak Ridge Reservation and are taken from Myrick, T. E., et. al, "Determination of Concentrations of Selected Radionuclides in Surface Soil in the U.S."

#### **A.1.2 OTHER WASTES**

If background subtraction is to be performed for radium or thorium in waste materials other than soils or earthen-based materials, or if values other than the defaults are to be used for soil or earthen-based waste, appropriate background values must be provided with an explanation as to how these values were determined and why they are considered representative of the background levels in the waste material. The user must enter these user-supplied background values directly into the appropriate data entry fields in the spreadsheet *Volumetric Screening Criteria and Compliance Calculations for Industrial Landfill V & Construction/Demolition Landfill VII* and must include appropriate justification for the site-specific values.

### **A.2 OTHER RADIONUCLIDES**

There are three groups of radionuclides for which data may be reported by the laboratory, but for which data are not entered in the *Volumetric Screening Criteria and Compliance Calculations for Industrial Landfill V & Construction/Demolition Landfill VII* spreadsheet.

#### **A.2.1 SHORT-LIVED DECAY PRODUCTS OF URANIUM, RADIUM, AND THORIUM DECAY SERIES**

The potential doses from the short-lived decay products that would be associated with process-related uranium, radium, or thorium are addressed within the modeling that was used to calculate screening criteria for the longer-lived members of these decay series. (Similarly, short-lived radioactive decay

products of strontium (Sr)-90, cesium (Cs)-137, and neptunium (Np)-237 are not considered individually, but their in-growth is considered in the evaluation of the parent radionuclide in each case.)

### **A.2.2 POTASSIUM-40**

Potassium (K)-40 is a naturally occurring radioactive nuclide of potassium. It has a half-life of 1.26 billion years. All potassium includes K-40 at an isotopic abundance of 0.0118% (i.e., anything that contains potassium will contain K-40). Because potassium is found throughout the environment and because K-40 is readily detected by gamma spectroscopy, this radionuclide is commonly reported in radioanalytical data sets. However, because it is not a process-related radionuclide (i.e., there have been no processes utilized at the DOE facilities that would have altered the natural abundance of K-40 relative to stable potassium), screening criteria are not needed for this radionuclide.

### **A.2.3 BERYLLIUM-7**

Beryllium (Be)-7 is a cosmogenic radionuclide with a half-life of 53.3 days, produced mostly in the stratosphere by cosmic ray spallation of nitrogen and oxygen and entering the lower troposphere by atmospheric circulation processes. Because Be-7 is found throughout the environment and because it is readily detected by gamma spectroscopy, this radionuclide is commonly reported in radioanalytical data sets. However, because it is not a process-related radionuclide, screening criteria are not needed for this radionuclide.

**APPENDIX B**  
(to Attachment 17)

<b>Sampling and Analytical Summary for Special Waste Evaluation Applications Involving Volumetrically Contaminated Materials</b>	
<b>General Information</b>	
1.	Date:
2.	Name of Contractor/subcontractor:
3.	Name of Contractor/Subcontractor Representative:
4.	Name of Waste Stream:
<b>Sampling Summary</b>	
5.	Provide a physical description of the waste, including the approximate volume.
6.	Explain how the waste was generated. What is the history of the material involved?
7.	If the characterization is based on collection of physical samples of the waste stream for on-site or off-site laboratory analysis:
	Was the waste sampled in accordance with SW-846? If not, explain why the use of SW-846 was not appropriate and describe the sampling protocol that was followed, including how the minimum number of required samples was determined.
	Explain how the samples were collected, including the sample size and the number of samples taken.
	Discuss the extent to which samples were composited and provide the basis upon which the compositing was done (e.g. over what volumes of waste were samples composited)
8.	If the waste characterization is based on non-destructive analysis:
	Describe the non-destructive testing methodology used and the justification for selection of this methodology.
	Discuss the process knowledge or analytical documentation used to determine the waste stream physical characteristics are amenable to the use of the selected NDA techniques and to determine the relative isotopic composition of the waste.
	Describe the qualifications of the provider.
<b>Analytical (Laboratory and/or NDA) Results</b>	
9.	Was the waste sampled in accordance with EPA Document SW-846?
10.	If the waste was not sampled in accordance with SW-846, provide an explanation of why SW-846 was not appropriate and describe the sampling protocol that was followed including how the minimum number of samples was determined:
11.	How many samples were taken?

**Sampling and Analytical Summary for Special Waste Evaluation Applications  
Involving Volumetrically Contaminated Materials**

12.	Explain how the samples were taken including the sample size:		
13.	Discuss the extent to which samples were composited and provide the basis upon which the compositing was performed (i.e., over what volumes of waste were samples composited):		
14.	Identify the radionuclides that were analyzed for, provide the detection limit for the analysis, and explain the basis upon which these radionuclides were selected or excluded from analysis (e.g., existing data, historical process knowledge)		
	Radionuclide	Analyzed For?	Detection Limit pCi/g dry weight
	H-3		
	C-14		
	Co-60		
	Sr-90		
	Tc-99		
	Cs-137		
	Eu-152		
	Eu-154		
	Ra-226		
	Th-230		
	Th-232		
	U-234		
	U-235		
	U-238		
	Total U		
	Np-237		
Pu-238			
Pu-239			
Am-241			
15.	Attach copies of the laboratory data including definitions of abbreviations and data qualifiers.		
16.	If background concentrations have been used for radium and thorium for wastes other than soil, provide the justification and supporting references/documentation for the background concentrations:		



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## 7. REFERENCES

- CN-1054. Asbestos Waste Shipment Record, latest revision, Tennessee Department of Environment and Conservation, Nashville, TN.
- DOE Order 458.1. *Radiation Protection of the Public and the Environments*, February 2011, U.S. Department of Energy, Office of Health, Safety and Security, Washington, D.C. (replaced DOE Order 5400.5).
- DOE Order 5400.5. *Radiation Protection of the Public and the Environments*, January 1993, (replaced by DOE Order 458.1).
- EPA-340/1-92-013. *A Guide to Normal Demolition Practices Under the Asbestos NESHAP*, September 1992, U.S. Environmental Protection Agency, Washington, D.C.
- Form-335. *Generator's/Shipper's Log for Beryllium Oxide Removal and Disposal*, latest revision, URS | CH2M Oak Ridge LLC, Oak Ridge, TN.
- Myrick, T. E., et.al. "Determination of Concentrations of Selected Radionuclides in Surface Soil in the U.S.," *Health Physics*, 1983, Vol. 45, pp.631–642, Health Physics Society, Cincinnati, OH.
- ORR Landfill Shipping form, latest revision, URS | CH2M Oak Ridge LLC, Oak Ridge, TN.
- PPD-WM-2400. *UCOR Waste Management Program Plan*, latest revision, URS | CH2M Oak Ridge LLC, Oak Ridge, TN.
- PROC-IH-5177. *Asbestos and Other Fibrous Materials*, latest revision, URS | CH2M Oak Ridge LLC, Oak Ridge, TN.
- Rule 0400-12-01-.02–.07. *Rules of the Tennessee Department of Environment and Conservation Division of Hazardous Waste Management*, latest revision, Tennessee Department of Environment and Conservation, Nashville, TN.
- SW-846. *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods*, latest revision, U. S. Environmental Protection Agency, Washington, D.C.
- UCN-2109. Waste Item Description, latest revision, UT-Battelle LLC.
- UCN-21941. Request for landfill V and VII Disposal, latest revision, Consolidated Nuclear Security, Y-12 National Security Complex, Oak Ridge, TN.
- UCOR-4187. *URS | CH2M Oak Ridge LLC Waste Certification Program Plan, Oak Ridge, Tennessee*, 2014, URS | CH2M Oak Ridge LLC Oak Ridge, TN.

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## ATTACHMENT 4

### Landfill Prohibited Items

#### **Prohibited Items (DO NOT SEND TO ORR LANDFILL)**

- Commercial products manufactured with radioactive materials, i.e., smoke detectors, thoriated welding rods, etc.
- Containerized liquids
- Electronic equipment with capacitors, mercury switches, ballasts, etc.
- Fluid filled mechanical equipment (heating, ventilation, and a/c systems, refrigerators, pumps, motors, appliances, etc.)
- Landscaping or land clearing wastes (straw bales, trees, brush, etc.)
- Liquid wastes or wastes containing free liquids
- Metal that can be recycled
- PCB wastes, except those PCB wastes allowable under 40 CFR 761 and approved by TDEC as special waste
- Petroleum product contaminated soil
- Pressurized gas cylinders
- Radioactive wastes (wastes known or expected to exceed radiological surface release criteria)
- RCRA Hazardous Wastes
- Refrigeration equipment not complying with 40 CFR 82.156
- Unapproved special wastes (**listed below**)
- Universal waste (bulbs, batteries, thermostats)
- Tires
- Wastes not generated by DOE activities in the Oak Ridge area

#### **Construction/Demolition Debris Prohibited Items**

- Bulk quantities of clean fill (gravel, soil, rock, concrete, cinder/concrete blocks, clay pipe/tile, asphalt pavement)
- General garbage (food waste, packing material)
- Loose trash or office waste
- Metals from Radiological Materials Management Areas (RMMAs)

#### **Special Wastes (These Waste Are Subject to Review Prior to Disposal)**

- Aerosol cans
- Asbestos debris (friable and non-friable)
- Beryllium Oxide
- Bulk quantities of non-PCB light ballasts
- C/D Debris with PCB Conc. in paint less than 50 ppm
- Dead animals
- Empty hazardous materials containers and drums
- Fiberglass with loose fibers
- Filters from industrial or treatment processes
- Industrial process waste
- Mercury contaminated soils and materials

## ATTACHMENT 5 (Continued)

### Landfill Prohibited Items

- Metal turnings, shavings, and dust from industrial processes and machining operations
- PCB bulk product waste (PCB concentration greater than 50 ppm)
- PCB items (ballasts, capacitors, or items with detectable PCBs)
- Paint chips (when not firmly adhered to surfaces)
- Paint wastes (buckets, cans, brushes, rollers, etc.)
- Potential respiratory hazards (refractory ceramic fibers, mineral wools, etc.)
- Sand/grit blast waste
- Soils and materials contaminated with industrial chemicals
- Solid laboratory chemicals
- Treatment media from industrial or treatment processes
- Wastes that are bulky or difficult to manage (greater than 8' long)

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## **Attachment 5: Prohibited Items for Metal Recycle**

- Acetylene cylinders
- Asbestos-containing material (i.e., insulated pipe and transite concrete fiber board)
- Leaking ballasts and PCB-containing equipment
- Fluorescent bulbs
- Fluid filled capacitors
- Closed compressed gas cylinders
- Closed containers of any kind
- Containers with free-flowing liquids inside or outside (e.g., tar, oil, gasoline)
- Flammable or combustible material/liquids or liquids of any type
- Rags/wipes containing solder paste and/or solvents
- Material or equipment containing refrigerants
- Munitions, bullets, military target range scrap, explosives
- Microwave ovens
- Paint cans
- Pressure regulated valves
- Radioactive material (including smoke detectors)
- Thermometers
- Thermostats
- Aerosol cans
- Barrels, drums, pails and buckets
- Gas tanks
- Propane cylinders
- Transformers (fluid filled or that have PCB's)
- Bio hazardous materials/fluids
- Batteries: NiCad, NiMH, Lithium ION, Alkaline
- Medical equipment that is not properly decontaminated (TCG can request a certificate of decontamination if unit appears to be soiled)
- Anything else that meets the definition of a characteristic (toxic, flammable, corrosive or reactive) or listed hazardous waste per Federal, State, or Local regulations. The only exceptions shall be materials that TCG is permitted to accept as detailed on our accepted materials list)

## SECTION 022050

### DEMOLITION

#### PART 1 - GENERAL

##### 1.1 RELATED DOCUMENTS

- A. Drawings: To be provided with Task Release.
- B. Reference Drawings: To be provided with each Task Release. Existing drawings are provided for information only and do not necessarily reflect current or as-built conditions.

##### 1.2 SUMMARY

- A. Demolition activities shall conform to the safety and health requirements of Division 1. Demolition work consists of: [to be defined in each Task Release]
- B. Related Sections include the following:
  - 1. Division 01 Section 010100, *General Work Requirements*.
  - 2. Division 01 Section 011100, *Safety and Health*.
  - 3. Division 01 Section 015000, *Temporary Facilities and Site Controls*.
  - 4. Division 01 Section 015500, *Environmental Protection*.
  - 5. Division 01 Section 017149, *Demolition Waste Management and Disposal*.

##### 1.3 SUBMITTALS

- A. Submit Demolition Work Plan in accordance with Division 1 Specification 010100 for Company approval. Demolition Work Plan shall provide for safe conduct of work, careful removal and disposal of materials, protection of structures that are to remain undisturbed, and coordination with other work in progress. Demolition Work Plan shall include detailed description of methods and equipment to be used for each operation and sequence of operations. For demolition of structures, include an engineering survey in accordance with 29 CFR 1926.850 (a). The engineering survey shall be performed by a registered professional engineer and assess facility structural integrity and identify any demolition approach or sequencing requirements for safe demolition, including the requirements for protection of building elements to remain in place and protection of adjacent infrastructure and facilities.
- B. Submit Water Management Plan in accordance with Division 1 Specification 015500 for Company approval. Water management, including run-on diversion and run-off controls, shall be in place prior to Seller beginning demolition activities.



#### 1.4 SEQUENCING/SCHEDULING

- A. Perform work per schedule submitted to Company in accordance with Division 1 Specification 010100. Rolling schedule updates and daily planning shall be provided to the Company in accordance with Division 1 Specification 010100.

#### PART 2 - PRODUCTS

- 2.1 Not used.

#### PART 3 - EXECUTION

##### 3.1 PROTECTION

- A. Protect existing work, nearby facilities, and infrastructure from damage during demolition. Damage to structures, utilities, and equipment to remain shall be repaired by the Seller at Seller's expense in accordance with the Company's instructions.

##### 3.2 INSTALLATION/APPLICATION/ERECTION

- A. General.

1. Use of explosives is prohibited.
2. Execute demolition work in an orderly, careful manner in accordance with the approved Demolition Plan. Provide barricades, fences, lights, and other protection to protect adjacent areas and prevent entry by unauthorized personnel.
3. Obtain advance approval from the Company TPO for any work performed in roadways or walkways adjacent to site and for any detouring of traffic. Provide all safety measures and devices required by the Company and applicable regulatory agencies.
4. Maintain emergency egress routes for personnel in adjacent buildings during any road, walkway, or area closures for the duration of on-site activities.
5. Control rubbish, debris, dust, and water runoff. Use of water is not permitted when it will result in or create hazardous or objectionable conditions such as flooding and pollution.

Remove and dispose of material resulting from demolition operations as soon as practical. Prevent spillage on streets or adjacent areas. Waste generated from demolition activities shall be transported and disposed of in accordance with requirements of Division 1 Specification 017419. Burying debris is prohibited.

6. Control the spread of dust using water spraying equipment and other appropriate methods detailed in Seller's approved Demolition Work Plan.

B. Utilities.

1. Existing utility lines shown are approximate locations only. Field-verify existing utility lines as required prior to demolition or grading. Report deviations for the locations shown in writing to the Company TPO prior to beginning demolition or grading. Do not disturb utility lines that are not shown on drawings without the Company TPOs approval.
2. Preserve active utilities traversing project site, including, but not limited to, mains, lines, duct banks, manholes, catch basins, valve boxes, poles, guys, and other appurtenances in operating condition. Repair damage to any active utility in accordance with the Company TPOs instructions.
3. Company will disconnect and air gap utilities to all facilities prior to Seller beginning demolition. Seller shall request confirmation from Company TPO that utilities except for storm drainage have been isolated. Do not commence demolition work until utility disconnections are verified in writing and via field walkdown with Company Safety personnel.
4. Utility piping six (6) inches and greater in diameter shall be crushed in accordance with void space requirements in Division 1 Specification 017149.
5. As applicable, plug floor and sink Process Waste drains at the building floor slab elevation if slab is to remain in place, or below slab if slab removal is included in the Task Release Statement of Work. Process Waste drain plugging methods shall be in accordance with Seller's approved Demolition Plan and provide for removable plugs that are watertight.
6. Plug process and potable water lines, building sanitary sewer drains, and building storm drainage system drains (e.g., roof drains, condensate drains, cooling water drains, etc.) at the building floor slab if slab is to remain in place, or below slab if slab removal is included in the Task Release Statement of Work. Water and drainage system drains shall be plugged in accordance with Seller's approved Demolition Plan and provide a watertight seal.

C. Other Structures.

1. Protect concrete and asphaltic concrete paving, concrete slabs, sidewalk, curb, and structures that are to remain. Seller shall repair damage in accordance with applicable Company specifications and Seller's approved repair plans.

D. Water Management.

1. Water management facilities shall be installed, and maintained by Seller in accordance with Seller's approved Water Management Plan.

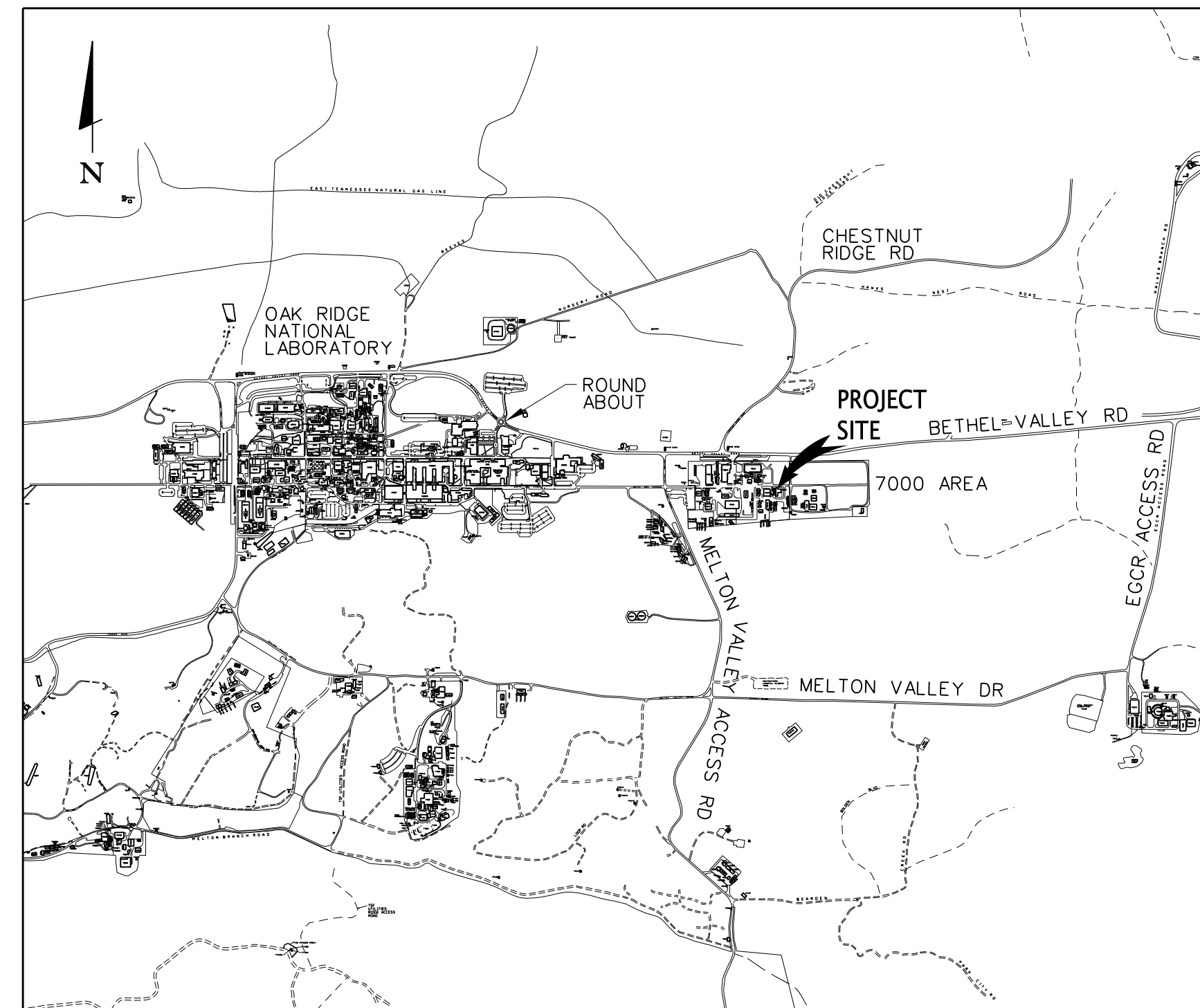
2. Water Management Plan shall address all applicable elements identified in Division 1 Specification 01550.
3. Run-on controls shall be installed and operable prior to Seller beginning substantial demolition activities. Run-on controls shall divert stormwater flow to minimize contact with potentially contaminated material or areas. Run-on controls shall be inspected and maintained by Seller for the duration of field activities.
4. Run-off controls shall be installed and operable prior to Seller beginning substantial demolition activities. Run-off controls shall be inspected and maintained by seller for the duration of field activities. Run-off controls shall include capability to collect and monitor contact water prior to discharge to the Company waste system per Division 1 Specification 01550.

**END OF SECTION**

## **Attachment 2:**

### **Demolition Drawings and Photos**

# U.S. DEPARTMENT OF ENERGY OAK RIDGE NATIONAL LABORATORY UT-BATTELLE CRAFT RESOURCES SUPPORT FACILITY DEMOLITION PHASE



LOCATION MAP  
(NOT TO SCALE)

ORNL DWG NUMBER	A/E SHEET NO.	DRAWING DESCRIPTION	REV NO.	REVISION TITLE	REV DATE
C3E021660A001	C001	COVER SHEET	4	REV. PER COMPANY COMMENTS	04/01/2021
C3E021660A002	C101	SITE DEMOLITION PLAN	4	REV. PER COMPANY COMMENTS	04/01/2021
C3E021660A003	C201	SITE LAYOUT PLAN	4	REV. PER COMPANY COMMENTS	04/01/2021
C3E021660A004	C301	EROSION PREVENTION AND SEDIMENT CONTROL PLAN	4	REV. PER COMPANY COMMENTS	04/01/2021
C3E021660A005	C401	DETAILS	2	REV. PER COMPANY COMMENTS	04/01/2021
Grand total: 5					



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ORNL DWG NUMBER	A/E SHEET NO.	DRAWING DESCRIPTION	REV NO.	REVISION TITLE	REV DATE
C3E021660A001	C001	COVER SHEET	4	REV. PER COMPANY COMMENTS	04/01/2021
C3E021660A002	C101	SITE DEMOLITION PLAN	4	REV. PER COMPANY COMMENTS	04/01/2021
C3E021660A003	C201	SITE LAYOUT PLAN	4	REV. PER COMPANY COMMENTS	04/01/2021
C3E021660A004	C301	EROSION PREVENTION AND SEDIMENT CONTROL PLAN	4	REV. PER COMPANY COMMENTS	04/01/2021
C3E021660A005	C401	DETAILS	2	REV. PER COMPANY COMMENTS	04/01/2021
Grand total: 5					

CFC		C001	
DSGN	A. GRAY	12/17/2020	
DRW	A. CRENSHAW	12/17/2020	
CHKR	W. FULGHUM	12/17/2020	
PE/A	M. BULGHANAN	12/17/2020	
PM	N. SHAFER	12/17/2020	
PM	A. HICKS		
REQ	R. GRIFFEY		
CFM	B. BARRITT		
CFM	M. LIGHT		
		ORNL Craft Resources Support Facility - Demolition Phase  <b>COVER SHEET</b>	
SITE	ORNL	BLDG	7033
FL	1	SH	5
OF	1	UNCLASSIFIED	
PROJECT RECORD NUMBER	X2020-0010	DRAWING NUMBER	C3E021660A001
REV	4	DATE	04/01/2021
REVISION 0 ISSUANCE		DATE	

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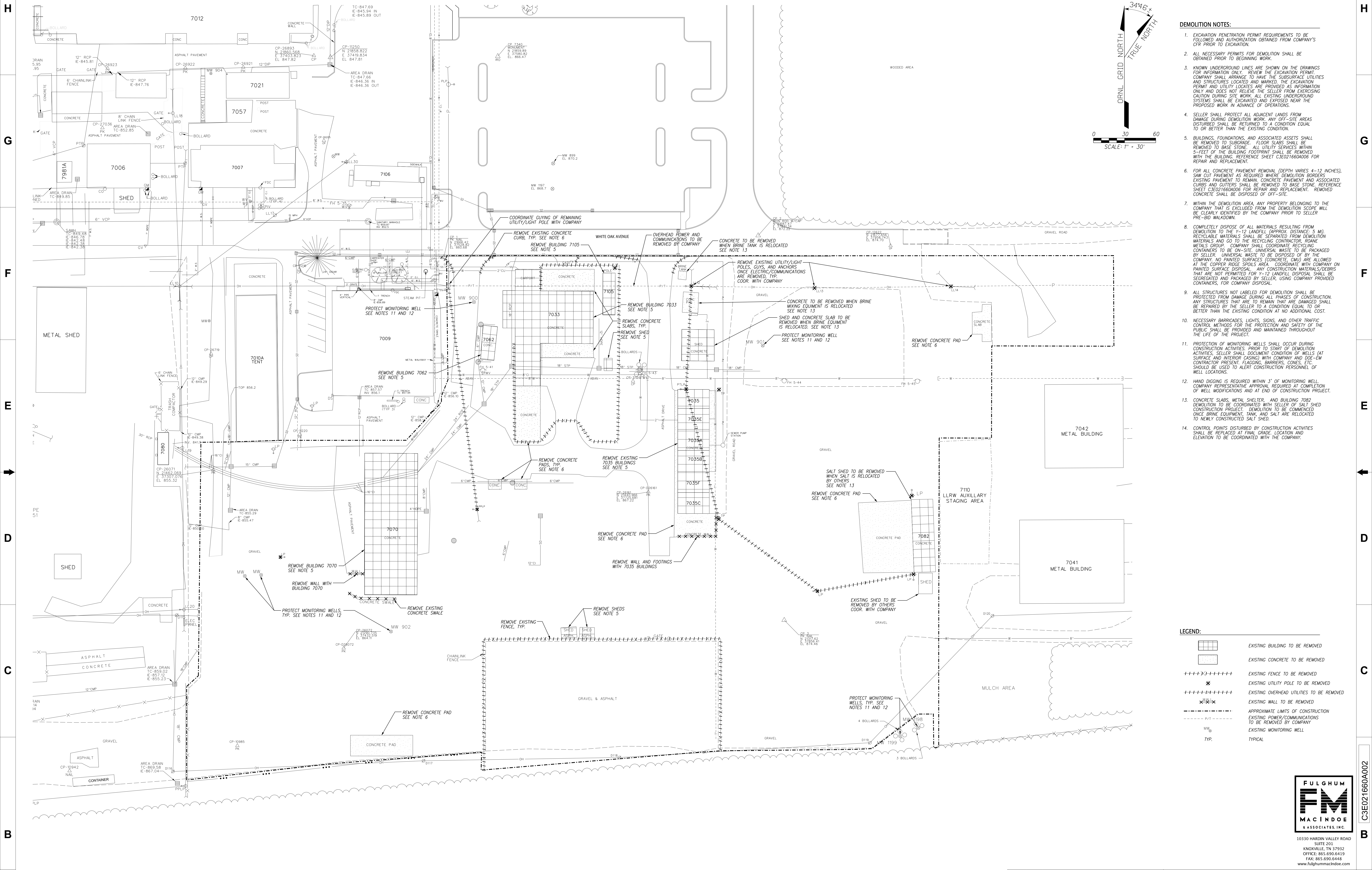
IDENTIFIER OF SECTION OR DETAIL

DRAWING ON WHICH SECTION OR DETAIL IS SHOWN

**SECTION AND DETAIL KEY**

THIS DOCUMENT IS ISSUED IN ACCORDANCE WITH:  
CHANGE CONTROL SYSTEM  
F&O PROCEDURE

REV	CHANGE	REVISION LEVEL	REVISION OR ISSUE PURPOSE	DATE	PE/A	DATE	PM	DATE	REQ	DATE	CFM	DATE	ST	CV	EC	EE	EM	IE	M	PD	SE	AR	FPE
4			REVISED PER COMPANY COMMENTS	AMG	04/01/21	AMG	04/01/21																
3			REVISED PER COMPANY COMMENTS	AMG	03/22/21	AMG	03/22/21																
2			REVISED PER COMPANY COMMENTS	AMG	02/09/21	AMG	02/09/21																
1			REVISED PER COMPANY COMMENTS	AMG	01/09/21	AMG	01/09/21																
0			CERTIFIED FOR CONSTRUCTION	AMG	12/17/20	AMG	12/17/20																



- DEMOLITION NOTES:**
- EXCAVATION PENETRATION PERMIT REQUIREMENTS TO BE FOLLOWED AND AUTHORIZATION OBTAINED FROM COMPANY'S CFR PRIOR TO EXCAVATION.
  - ALL NECESSARY PERMITS FOR DEMOLITION SHALL BE OBTAINED PRIOR TO BEGINNING WORK.
  - KNOWN UNDERGROUND LINES ARE SHOWN ON THE DRAWINGS FOR INFORMATION ONLY. REVIEW THE EXCAVATION PERMIT COMPANY SHALL ALLOW TO HAVE THE SUBSURFACE UTILITIES AND STRUCTURES LOCATED AND MARKED. THE EXCAVATION PERMIT AND UTILITY LOCATES ARE PROVIDED AS INFORMATION ONLY AND DOES NOT RELIEVE THE SELLER FROM EXERCISING CAUTION DURING SITE WORK. ALL EXISTING UNDERGROUND SYSTEMS SHALL BE EXCAVATED AND EXPOSED NEAR THE PROPOSED WORK IN ADVANCE OF OPERATIONS.
  - SELLER SHALL PROTECT ALL ADJACENT LANDS FROM DAMAGE DURING DEMOLITION WORK. ANY OFF-SITE AREAS DISTURBED SHALL BE RETURNED TO A CONDITION EQUAL TO OR BETTER THAN THE EXISTING CONDITION.
  - BUILDINGS, FOUNDATIONS, AND ASSOCIATED ASSETS SHALL BE REMOVED TO SUBGRADE. FLOOR SLABS SHALL BE REMOVED TO BASE STONE. ALL UTILITY SERVICES WITHIN 5'-FEET OF THE BUILDING FOOTPRINT SHALL BE REMOVED WITH THE BUILDING. REFERENCE SHEET C3E021660A006 FOR REPAIR AND REPLACEMENT.
  - FOR ALL CONCRETE PAVEMENT REMOVAL (DEPTH VARIES 4-12 INCHES), SAW CUT PAVEMENT AS REQUIRED WHERE DEMOLITION BORDERS EXISTING PAVEMENT TO REMAIN. CONCRETE PAVEMENT AND ASSOCIATED CURBS AND GUTTERS SHALL BE REMOVED TO BASE STONE. REFERENCE SHEET C3E021660A006 FOR REPAIR AND REPLACEMENT. REMOVED CONCRETE SHALL BE DISPOSED OF OFF-SITE.
  - WITHIN THE DEMOLITION AREA, ANY PROPERTY BELONGING TO THE COMPANY THAT IS EXCLUDED FROM THE DEMOLITION SCOPE WILL BE CLEARLY IDENTIFIED BY THE COMPANY PRIOR TO SELLER PRE-BID WALKDOWN.
  - COMPLETELY DISPOSE OF ALL MATERIALS RESULTING FROM DEMOLITION TO THE 7-12 LANDFILL (APPROX. DISTANCE 5 MI). RECYCLABLE MATERIALS SHALL BE SEPARATED FROM DEMOLITION MATERIALS AND GO TO THE RECYCLING CONTRACTOR, ROANE METALS GROUP. COMPANY SHALL COORDINATE RECYCLING CONTAINERS TO BE ON-SITE. UNIVERSAL WASTE TO BE PACKAGED BY SELLER. UNIVERSAL WASTE TO BE DISPOSED OF BY THE COMPANY. NO PAINTED SURFACES (CONCRETE, CMU) ARE ALLOWED AT THE COPPER RIDGE SPOILS AREA. COORDINATE WITH COMPANY ON PAINTED SURFACE DISPOSAL. ANY CONSTRUCTION MATERIALS/DEBRIS THAT ARE NOT PERMITTED FOR Y-12 LANDFILL DISPOSAL SHALL BE SEGREGATED AND PACKAGED BY SELLER, USING COMPANY PROVIDED CONTAINERS, FOR COMPANY DISPOSAL.
  - ALL STRUCTURES NOT LABELED FOR DEMOLITION SHALL BE PROTECTED FROM DAMAGE DURING ALL PHASES OF CONSTRUCTION. ANY STRUCTURES THAT ARE TO REMAIN THAT ARE DAMAGED SHALL BE REPAIRED BY THE SELLER TO A CONDITION EQUAL TO OR BETTER THAN THE EXISTING CONDITION AT NO ADDITIONAL COST.
  - NECESSARY BARRICADES, LIGHTS, SIGNS, AND OTHER TRAFFIC CONTROL METHODS FOR THE PROTECTION AND SAFETY OF THE PUBLIC SHALL BE PROVIDED AND MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT.
  - PROTECTION OF MONITORING WELLS SHALL OCCUR DURING CONSTRUCTION ACTIVITIES. PRIOR TO START OF DEMOLITION ACTIVITIES, SELLER SHALL DOCUMENT CONDITION OF WELLS (AT SURFACE AND INTERIOR CASINGS) WITH COMPANY AND DOE-EM CONTRACTOR PRESENT. FLAGGING, BARRIERS, CONES, ETC. SHOULD BE USED TO ALERT CONSTRUCTION PERSONNEL OF WELL LOCATIONS.
  - HAND DIGGING IS REQUIRED WITHIN 3' OF MONITORING WELL. COMPANY REPRESENTATIVE APPROVAL REQUIRED AT COMPLETION OF WELL MODIFICATIONS AND AT END OF CONSTRUCTION PROJECT.
  - CONCRETE SLABS, METAL SHELTER, AND BUILDING 7082 DEMOLITION TO BE COORDINATED WITH SELLER OF SALT SHED CONSTRUCTION PROJECT. DEMOLITION TO BE COMPLETED ONCE BRINE EQUIPMENT, TANK, AND SALT ARE RELOCATED TO NEWLY CONSTRUCTED SALT SHED.
  - CONTROL POINTS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE REPLACED AT FINAL GRID LOCATION AND ELEVATION TO BE COORDINATED WITH THE COMPANY.

- LEGEND:**
- EXISTING BUILDING TO BE REMOVED
  - EXISTING CONCRETE TO BE REMOVED
  - EXISTING FENCE TO BE REMOVED
  - EXISTING UTILITY POLE TO BE REMOVED
  - EXISTING OVERHEAD UTILITIES TO BE REMOVED
  - EXISTING WALL TO BE REMOVED
  - APPROXIMATE LIMITS OF CONSTRUCTION
  - EXISTING POWER/COMMUNICATIONS TO BE REMOVED BY COMPANY
  - EXISTING MONITORING WELL
  - TYP. TYPICAL



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**SECTION AND DETAIL KEY**

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**CHANGE CONTROL SYSTEM**

**F&O PROCEDURE**

REV	DATE	BY	CHK	DATE	REVISION OR ISSUE PURPOSE	REVISION OR ISSUE REVIEWERS
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1	01/08/21	AMG	01/08/21	AMG	REVISED PER COMPANY COMMENTS	
0	12/17/20	AMG	12/17/20	AMG	CERTIFIED FOR CONSTRUCTION	

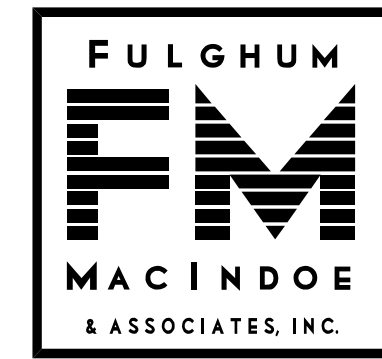
CFC		
RPE / RA	DSGN	DATE
	A. GRAY	12/17/2020
	A. CRENSHAW	12/17/2020
	CHKR W. FULGHUM	12/17/2020
	PE/A M. BUCHANAN	12/17/2020
	PM N. JHVERI	12/17/2020
	PM A. HICKS	
	REQ R. GRIFFEY	
	CFM B. BARRITT	
	CFM M. LIGHT	

C101				
OAK RIDGE NATIONAL LABORATORY				
Managed by UT-Battelle for the US Department of Energy				
Facilities and Operations Directorate				
Operated for the Department of Energy under the Department of the United States of America				
PROJECT NAME:				
ORNL Craft Resources Support Facility - Demolition Phase				
<b>SITE DEMOLITION PLAN</b>				
SITE	BLDG	FL	SH	UNCLASSIFIED
ORNL	7033	2	5	
PROJECT RECORD NUMBER	DRAWING NUMBER	REV	DATE	DATE
X2020-0010	C3E021660A002	4	04/01/2021	



- NOTES:**
1. THE TOPOGRAPHIC DATA WAS TAKEN FROM SURVEY PROVIDED BY THE COMPANY ON OCTOBER 4, 2019. COORDINATES ARE BASED ON THE ORNL COORDINATE SYSTEM.
  2. UNLESS NOTED OTHERWISE, DIMENSIONS ARE TAKEN FROM THE FENCE LINE, PROPERTY LINE, FACE OF CURB, EDGE OF PAVEMENT OR OUTSIDE FACE OF BUILDING.
  3. TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE FEDERAL HIGHWAY ADMINISTRATIONS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
  4. KNOWN UNDERGROUND LINES ARE SHOWN ON THE DRAWINGS FOR INFORMATION ONLY. REVIEW THE EXCAVATION PERMIT COMPANY SHALL ARRANGE TO HAVE THE SUBSURFACE UTILITIES AND STRUCTURES LOCATED AND MARKED. THE EXCAVATION PERMIT AND UTILITY LOCATES ARE PROVIDED AS INFORMATION ONLY AND DOES NOT RELIEVE THE SELLER FROM EXERCISING CAUTION DURING SITE WORK. ALL EXISTING UNDERGROUND SYSTEMS SHALL BE EXCAVATED AND EXPOSED NEAR THE PROPOSED WORK IN ADVANCE OF OPERATIONS.
  5. CARE TO PROTECT EXISTING PAVEMENT OUTSIDE OF LIMITS OF CONSTRUCTION SHALL BE EXERCISED. WHERE PAVEMENT IS DAMAGED DUE TO CONSTRUCTION, IT SHALL BE REPAIRED TO TDDT REQUIREMENTS AT NO ADDITIONAL COSTS TO THE COMPANY. IF DAMAGES OCCUR TO MORE THAN ONE LOCATION LESS THAN 200 FEET APART, THIS ENTIRE SECTION OF ROADWAY SHALL BE OVERLAD WITH 1-1/2 INCHES OF ASPHALT AT NO ADDITIONAL COST TO THE COMPANY.
  6. EXCAVATION NEAR POWER LINES AND OTHER UTILITIES SHALL BE PERFORMED WITH EXTREME CARE. DAMAGES TO UTILITIES DUE TO CONSTRUCTION ACTIVITIES WILL BE THE SELLER'S RESPONSIBILITY. EXCAVATION WITHIN 2'-0" OF THE CENTERLINE OF ANY EXISTING UTILITIES WHICH ARE TO REMAIN SHALL BE ACCOMPLISHED THROUGH HAND DIGGING OR SOME OTHER METHOD WHICH IS ACCEPTABLE TO THE COMPANY'S CONSTRUCTION FIELD REPRESENTATIVE (CFR).
  7. UTILITY POLE HOLES SHALL BE BACKFILLED TO SUBGRADE WITH MINERAL AGGREGATE BASE TYPE A GRADE D. BACKFILL SHALL BE COMPACTED IN 6-INCH LIFTS TO A MINIMUM 92% THEORETICAL MAXIMUM DENSITY IN ACCORDANCE WITH ASHOTO 199, METHOD D.
  8. ALL BUILDING DEMOLITION (I.E. FOOTINGS, TURNDOVS, UTILITY SERVICE EXCAVATIONS) AND CONCRETE DEMOLITION SHALL BE BACKFILLED TO SUBGRADE WITH MINERAL AGGREGATE BASE TYPE A GRADE D. BACKFILL SHALL BE COMPACTED IN 6-INCH LIFTS TO A MINIMUM 92% THEORETICAL MAXIMUM DENSITY IN ACCORDANCE WITH ASHOTO 199, METHOD D.
  9. SELLER SHALL INSTALL BOUNDARY FENCING PER OPTION TAKEN BY COMPANY ON THE EAST, WEST, AND NORTH SIDES OF THE DEMOLITION SITE. COORDINATE FINAL LOCATION, CONNECTIONS, AND GATES WITH COMPANY.
  10. TOTAL PROJECT AREA = 7.5± AC.

- LEGEND:**
- BACKFILLED EXCAVATIONS
  - FUTURE LAYDOWN AREA
  - PROPOSED BOUNDARY FENCE
  - APPROX. LIMITS OF CONSTRUCTION
  - EXISTING EDGE OF GRAVEL
  - EXISTING MONITORING WELL
  - EXISTING FENCE
  - EXISTING UTILITY POLE
  - TYP. TYPICAL



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1	01/08/21	REVISED PER COMPANY COMMENTS	AMG	AMG
0	12/17/20	CERTIFIED FOR CONSTRUCTION	AMG	AMG

REVISION LEVEL	REVISION OR ISSUE PURPOSE	REVISION OR ISSUE REVIEWERS
4	REVISED PER COMPANY COMMENTS	AMG 04/01/21
3	REVISED PER COMPANY COMMENTS	AMG 03/22/21
2	REVISED PER COMPANY COMMENTS	AMG 02/09/21
1	REVISED PER COMPANY COMMENTS	AMG 01/08/21
0	CERTIFIED FOR CONSTRUCTION	AMG 12/17/20

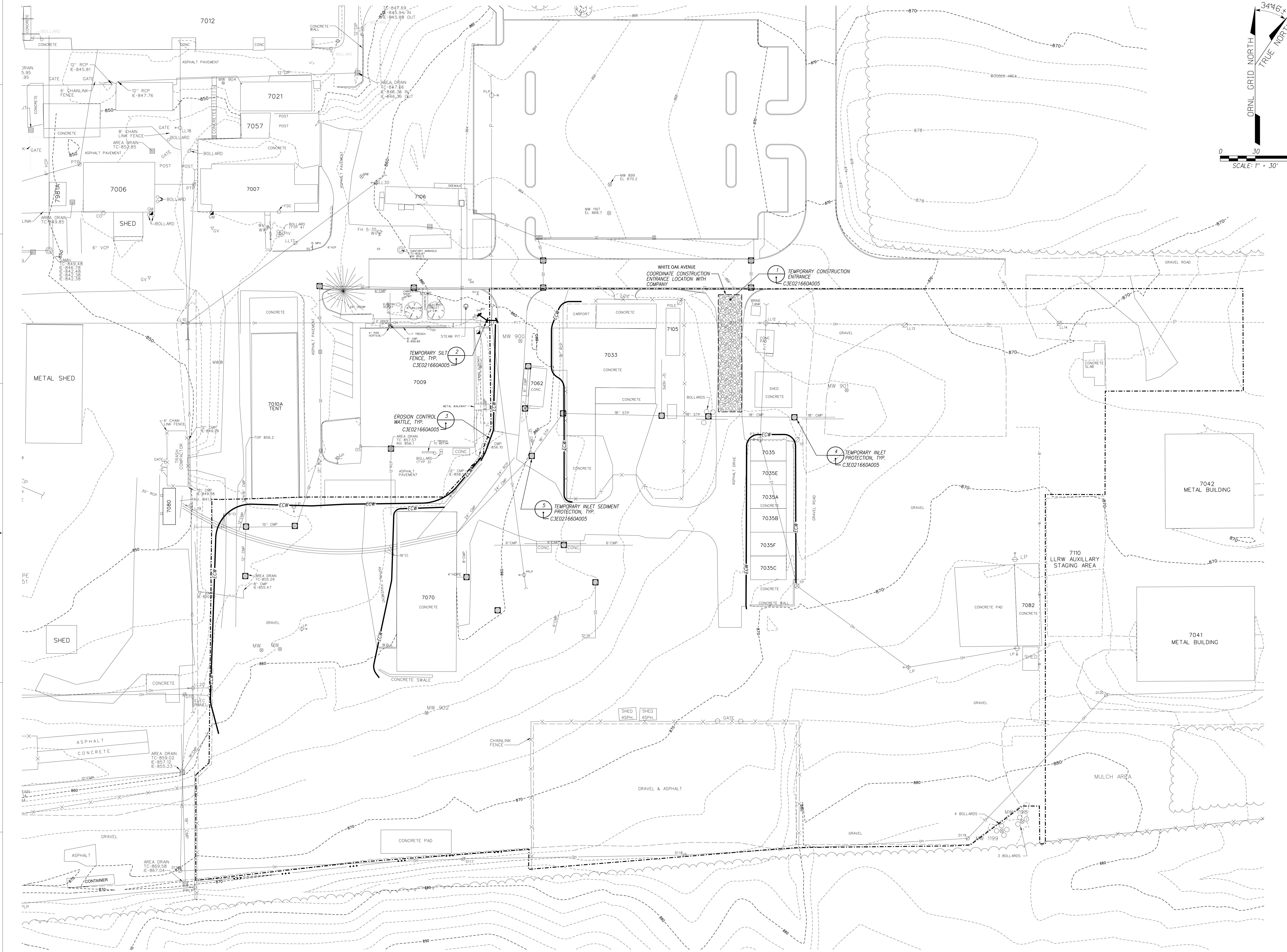
CFC		
RPE / RA	DRGN	DATE
A. GRAY	12/17/2020	
A. CRENSHAW	12/17/2020	
W. FULGHUM	12/17/2020	
M. BULGHANAN	12/17/2020	
N. SHAWARI	12/17/2020	
A. HICKS	12/17/2020	
R. GRIFFEY		
B. BARRITT		
M. LIGHT		

**C201**  
OAK RIDGE NATIONAL LABORATORY  
Facilities and Operations Directorate  
ORNL Craft Resources Support Facility - Demolition Phase

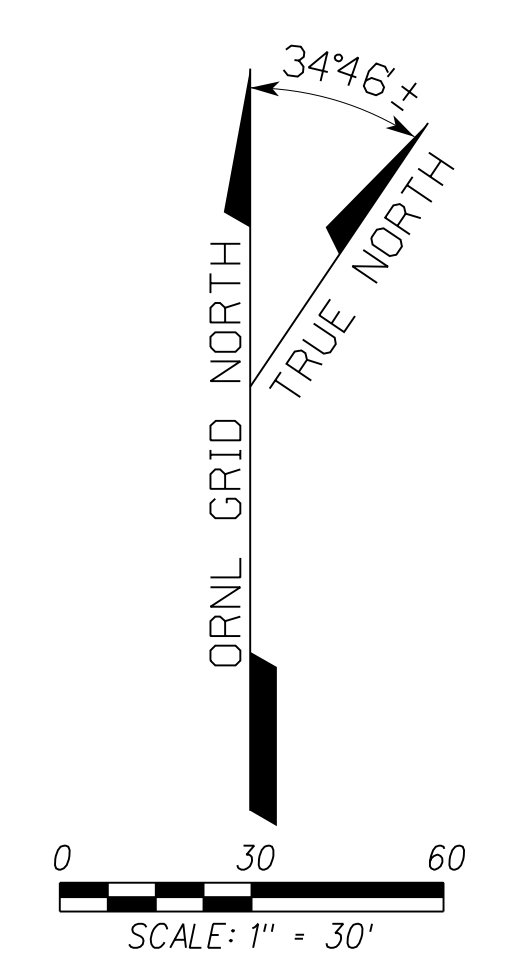
**SITE LAYOUT PLAN**

SITE	BLDG	FL	SH	OF	UNCLASSIFIED
ORNL	7033	3	5		

PROJECT RECORD NUMBER: X2020-0010  
DRAWING NUMBER: C3E021660A003



- EROSION CONTROL NOTES:**
- EACH EROSION AND SEDIMENT CONTROL (EASC) SHALL BE INSTALLED PRIOR TO INITIATION OF THE ACTIVITIES THAT THE CONTROL IS DESIGNED TO PROTECT. EASCs MAY BE INSTALLED INCREMENTALLY, DEPENDING ON AREAS OF DISTURBANCE, UPON APPROVAL BY THE COMPANY. EASCs MAY ALSO INCLUDE CONTROL OF STORM WATER RUN-OFF FROM ADJACENT PROPERTIES.
  - EASCs SHALL BE STRICTLY ENFORCED. ALL EASCs ARE SUBJECT TO FIELD MODIFICATION AS DIRECTED BY THE COMPANY.
  - REFER TO SECTION 31 22 70-EROSION CONTROL FOR ADDITIONAL REQUIREMENTS.
  - EASCs SHALL BE INSTALLED AND MAINTAINED UNDER THE SUPERVISION OF TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC) LEVEL 1 EROSION PREVENTION AND SEDIMENT CONTROL CERTIFIED PERSONNEL. ALL INSPECTIONS OF EASCs SHALL BE COMPLETED BY TDEC LEVEL 1 EROSION PREVENTION AND SEDIMENT CONTROL CERTIFIED PERSONNEL.
  - EASCs SHALL BE INSPECTED TWICE PER WEEK AT A MINIMUM, AND 72 HOURS APART. INSPECTION FORMS SHALL BE COMPLETED AS PER SECTION 01 55 00 ENVIRONMENTAL PROTECTION. EASCs THAT ARE NOTED TO BE DAMAGED OR INEFFECTIVE SHALL BE REPAIRED OR MODIFIED WITHIN 7 CALENDAR DAYS OR PRIOR TO THE NEXT RAIN EVENT, WHICHEVER OCCURS FIRST.
  - EASCs SHALL BE MAINTAINED IN ACCORDANCE WITH TDEC'S EROSION AND SEDIMENT CONTROL HANDBOOK.
  - REFER TO SECTION 01 55 00-ENVIRONMENTAL PROTECTION FOR ADDITIONAL EASC REQUIREMENTS. COMPLY WITH ALL REQUIREMENTS OF THE TN GENERAL PERMIT (TNR 100000) - STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
  - GENERALLY, EASCs SHALL BE MAINTAINED UNTIL SITE GRADING (CONSTRUCTION PREPARATION). SELLER IS RESPONSIBLE FOR MAINTAINING EASCs THROUGH COMPLETION OF DEMOLITION SCOPE.
  - SEDIMENT SHALL BE PREVENTED FROM DISCHARGING FROM THE PROJECT SITE.
    - SEVEN (7) CALENDAR DAYS FOR ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) AND;
    - FIFTEEN (15) CALENDAR DAYS FOR ALL OTHER DISTURBED OR GRADED AREAS.
  - THIS DOES NOT APPLY TO THOSE AREAS WHICH ARE CURRENTLY BEING USED FOR STORAGE, STOCKPILES, OR WHERE ACTIVE CONSTRUCTION ACTIVITIES ARE OCCURRING. MAINTENANCE SHALL BE PERFORMED TO ENSURE THAT STABILIZED AREAS CONTINUOUSLY MEET COMPANY'S APPROVAL.
  - SELLER SHALL INSTALL APPROPRIATE SEDIMENTATION CONTROL (E.G. SILT FENCE) ON DOWNHILL/DOWNGRADIENT SIDE OF ANY STOCKPILE OR DISTURBED AREA THAT SHALL REMAIN FOR MORE THAN ONE DAY. EXCAVATION EQUIPMENT AND STOCKPILES SHALL BE ON THE UPHILL SIDE OF THE EXCAVATION UNLESS AN ALTERNATIVE ARRANGEMENT IS APPROVED BY THE COMPANY.
  - ROADWAYS SHALL BE KEPT CLEARED OF ACCUMULATED SEDIMENT. BULK CLEARING OF ACCUMULATED SEDIMENT SHALL NOT INCLUDE FLUSHING THE AREA WITH WATER. SEDIMENT SHALL BE RETURNED TO THE LIKELY POINT OF ORIGIN OR OTHER AREA APPROVED BY THE COMPANY.
  - THE SELLER SHALL CONTROL WASTES, GARBAGE, DEBRIS, WASTEWATER AND OTHER SUBSTANCES ON THE SITE IN SUCH A WAY THAT THEY SHALL NOT BE TRANSPORTED FROM THE SITE BY STORM WATER RUNOFF.
  - EASCs MAY BE TEMPORARILY REMOVED IF NECESSARY TO ACCOMPLISH WORK ACTIVITIES, BUT MUST BE REINSTALLED BEFORE ANY RAIN EVENT AND BEFORE THE END OF THE WORK SHIFT.
  - ROUTINE INSPECTIONS OF EASCs SHALL INCLUDE OBSERVATIONS OF LOCATIONS WHERE STORM WATER RUNOFF IS DISCHARGED TO A RECEIVING STREAM TO ENSURE THAT EASCs ARE EFFECTIVELY PREVENTING DISCHARGE OF SEDIMENT TO THE RECEIVING STREAM. DURING DEWATERING ACTIVITIES, LOCATIONS WHERE WATER IS DISCHARGED FROM THOSE ACTIVITIES (BOTH STORM DRAINS AND RECEIVING STREAMS) SHALL BE INSPECTED TO VERIFY THAT SEDIMENT IS BEING ADEQUATELY CONTROLLED. IF SEDIMENTATION CONTROLS ASSOCIATED WITH DEWATERING ACTIVITIES ARE FOUND TO BE INEFFECTIVE, THE DEWATERING ACTIVITY SHALL BE HALTED AND EFFECTIVE CONTROLS SHALL BE IMPLEMENTED BEFORE THE ACTIVITY IS RESUMED.



- LEGEND:**
- TEMPORARY SILT FENCE
  - TEMPORARY INLET PROTECTION
  - EROSION CONTROL WATTLE
  - APPROXIMATE LIMITS OF CONSTRUCTION
  - EXISTING UTILITY POLE
  - TYP.



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REV	DATE	BY	CHK	DATE	REVISION OR ISSUE PURPOSE
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0	12/17/20	AMG	AMG	12/17/20	CERTIFIED FOR CONSTRUCTION

DSGN	DATE	REQ	DATE	CFM	DATE
A. GRAY	12/17/2020				
A. CRENSHAW	12/17/2020				
W. FULGHUM	12/17/2020				
M. BUCHANAN	12/17/2020				
N. JAWHARI	12/17/2020				
A. HICKS	12/17/2020				
R. GRIFFEY					
B. BARRITT					
M. LIGHT					

**CFC**

RPE / RA

**C301**

**OAK RIDGE NATIONAL LABORATORY**

MANAGED BY UT-BATTILLE FOR THE US DEPARTMENT OF ENERGY

Facilities and Operations Directorate

Controlled by the Department of Energy (DOE) pursuant to the United States of America PROJECT NAME

**ORNL Craft Resources Support Facility - Demolition Phase**

**EROSION PREVENTION AND SEDIMENT CONTROL PLAN**

SITE	BLDG	FL	SH	OF	UNCLASSIFIED
ORNL	7033	4	5		

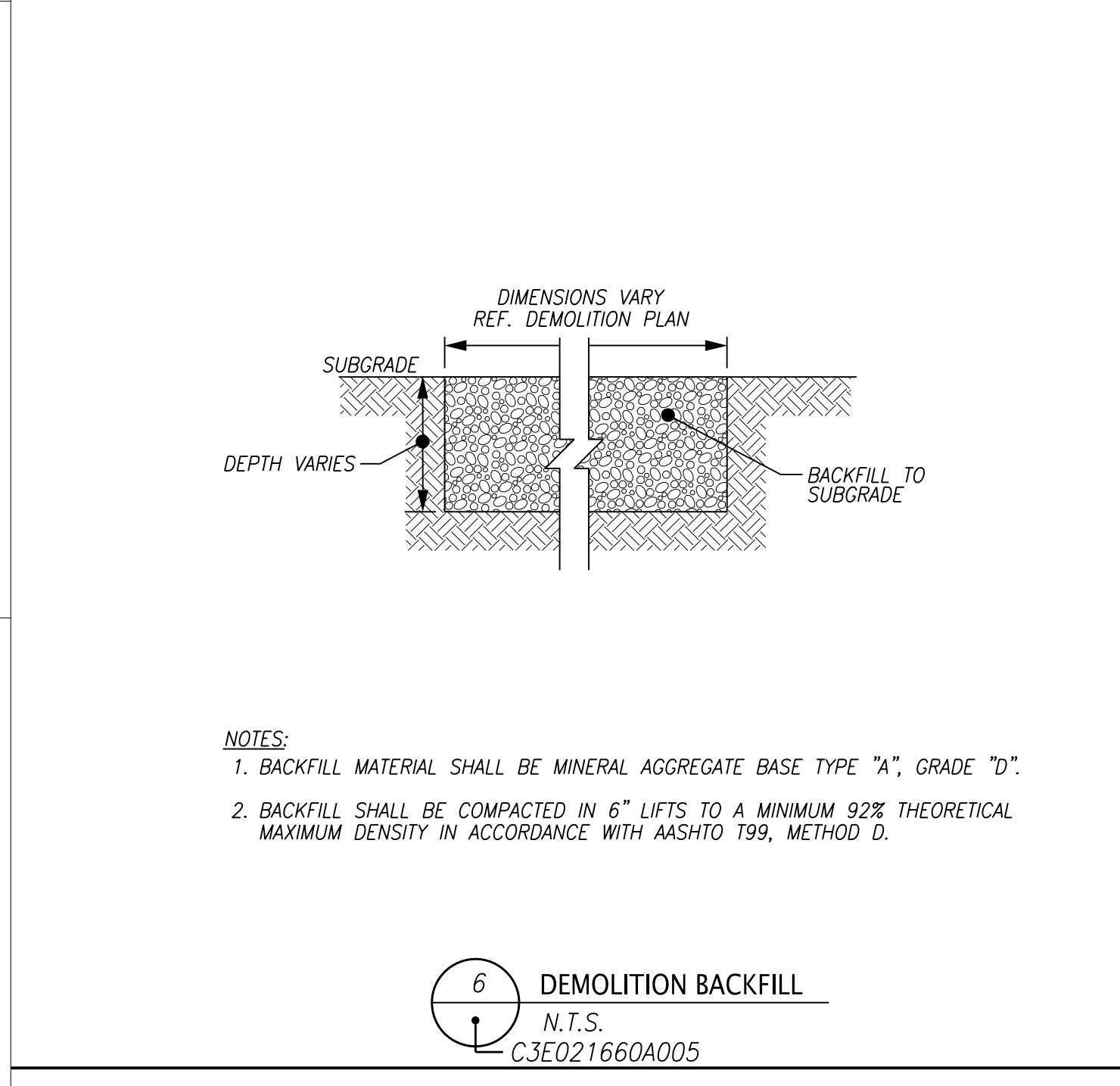
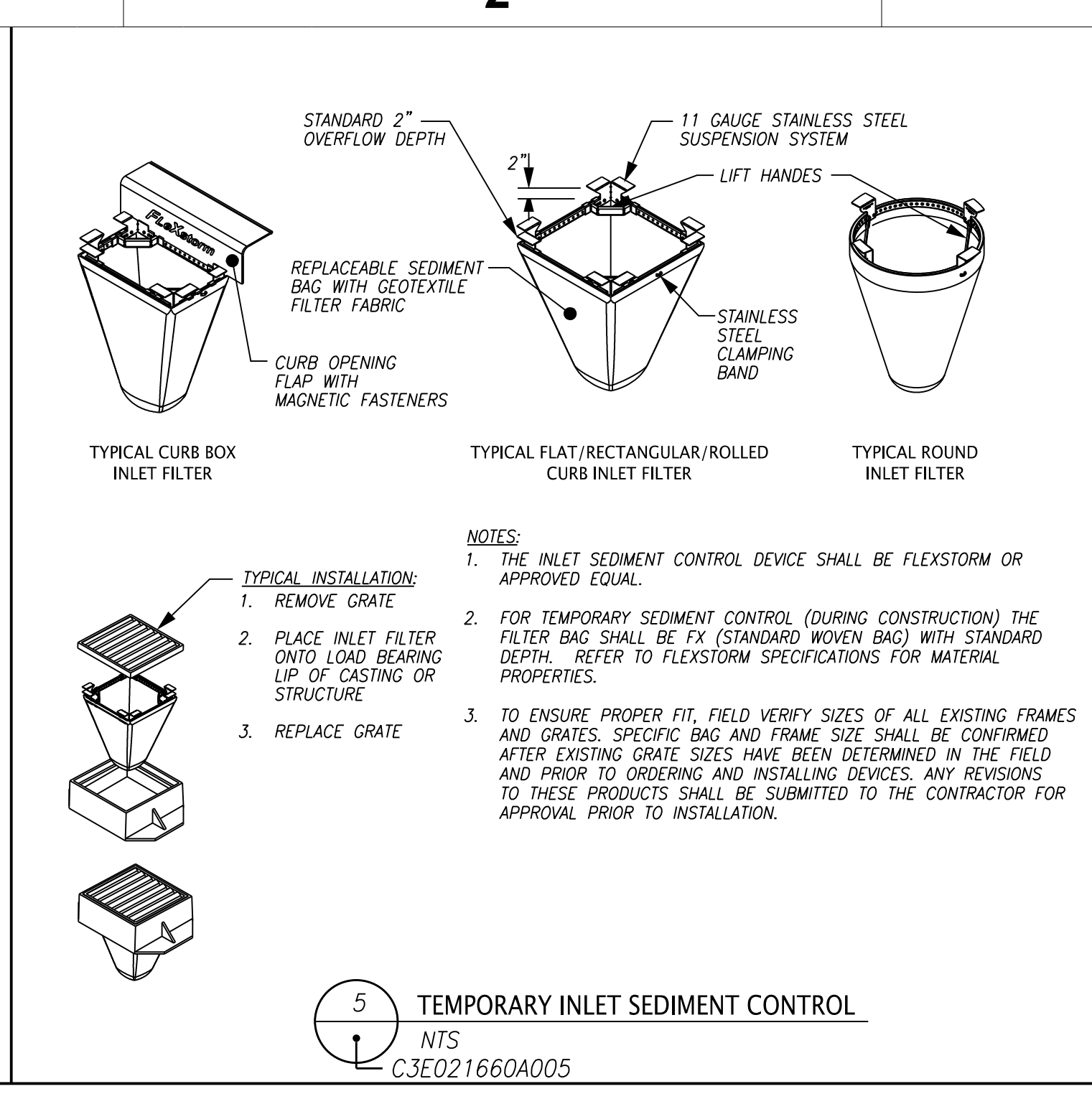
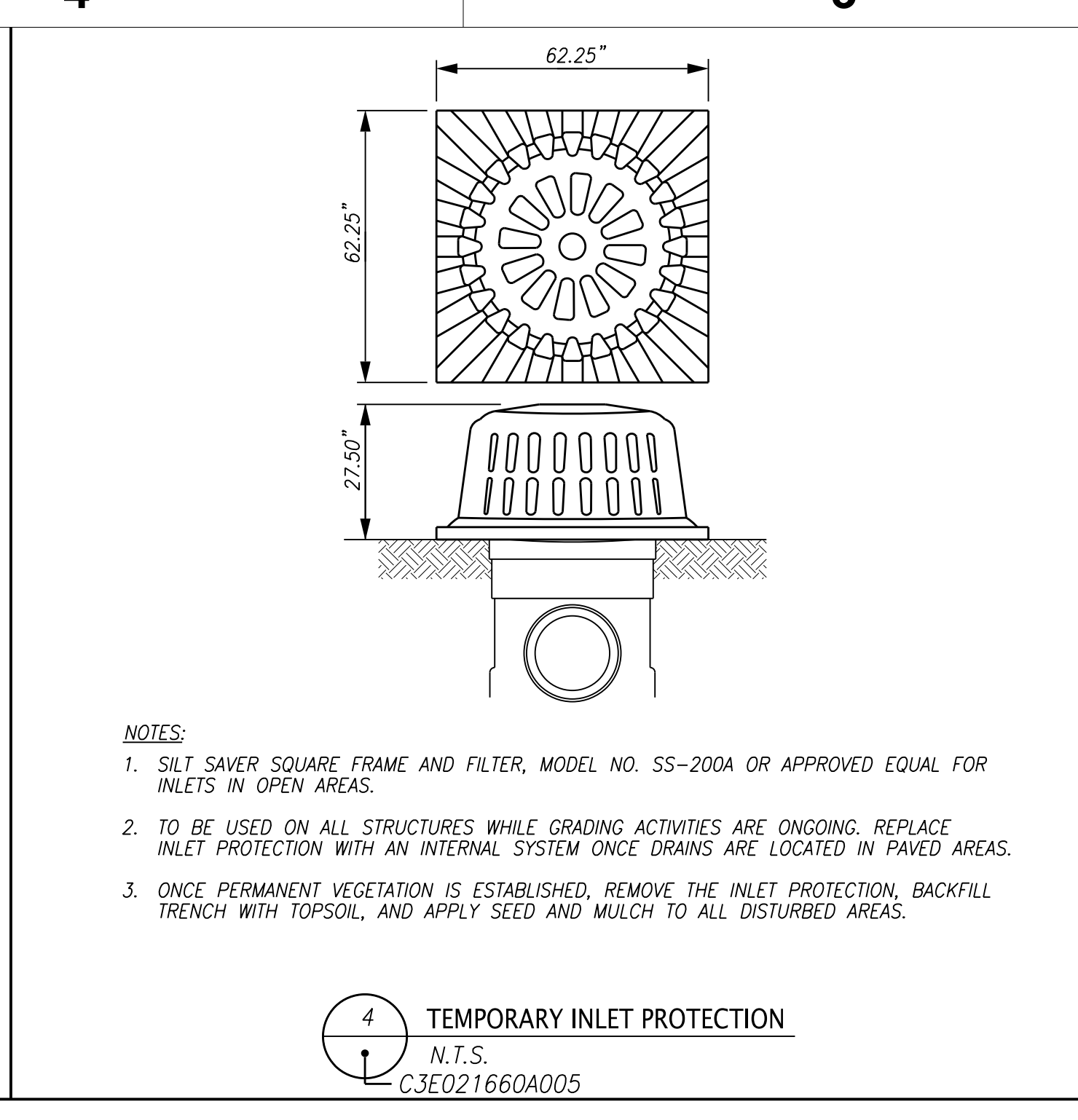
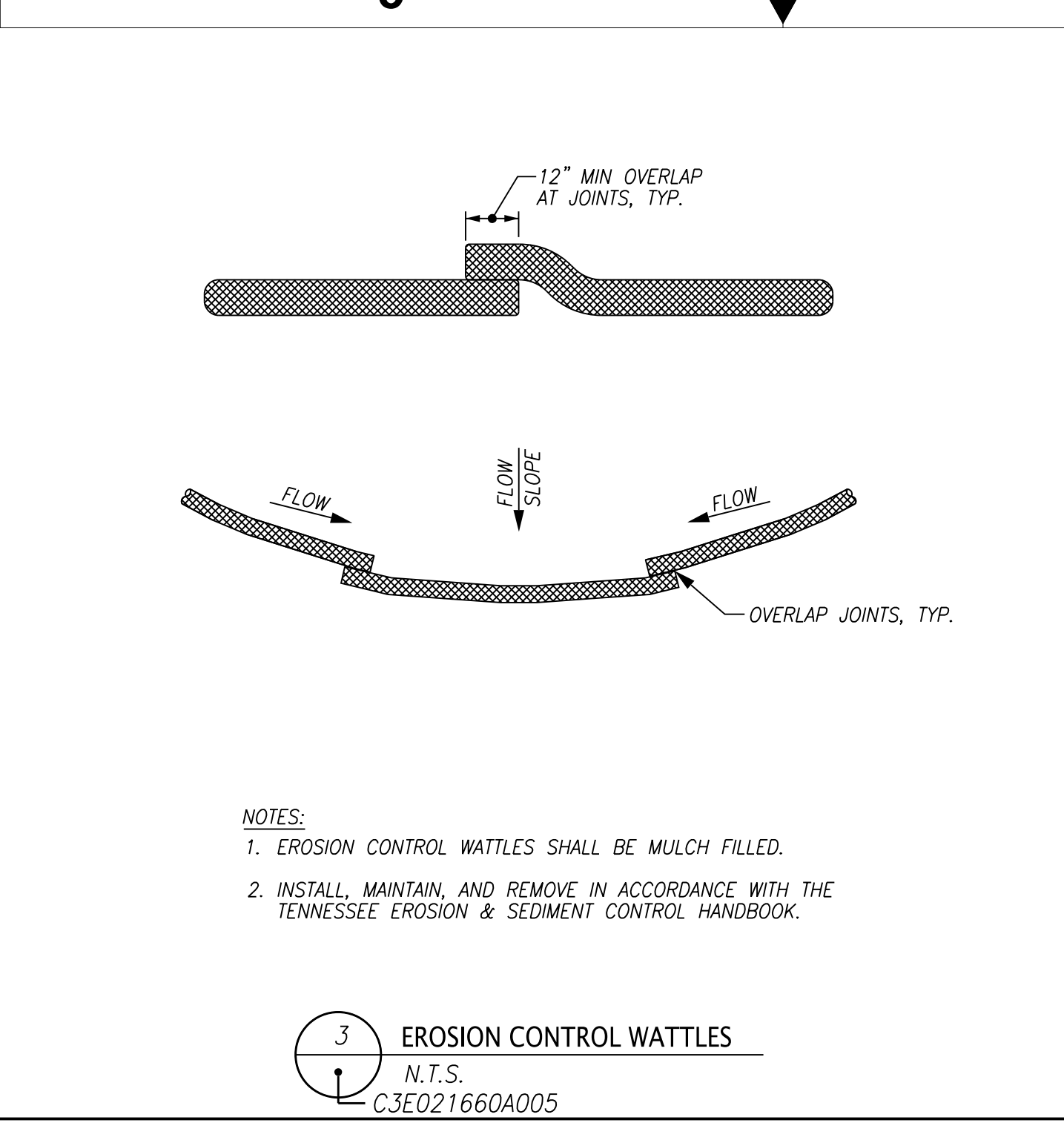
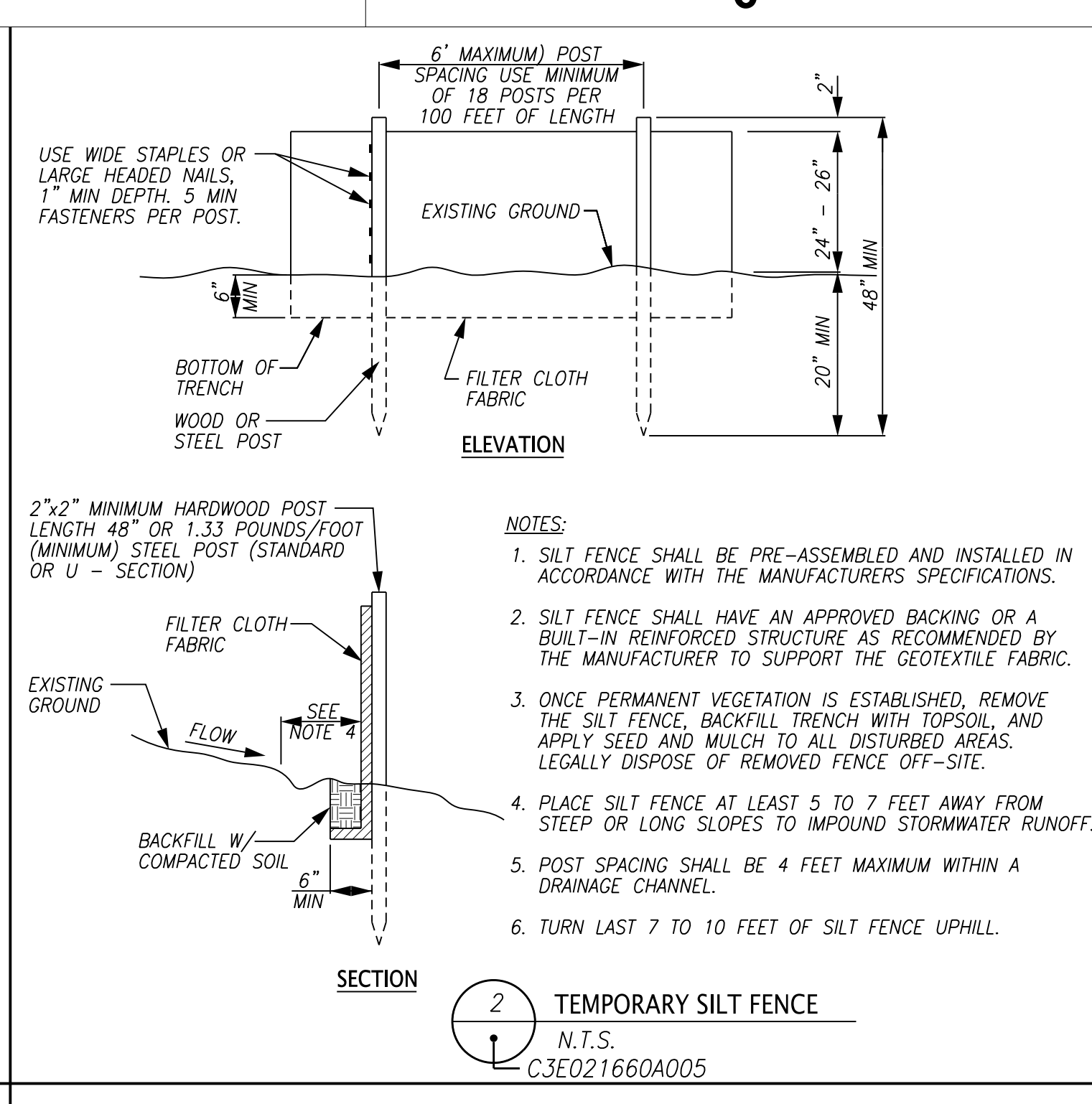
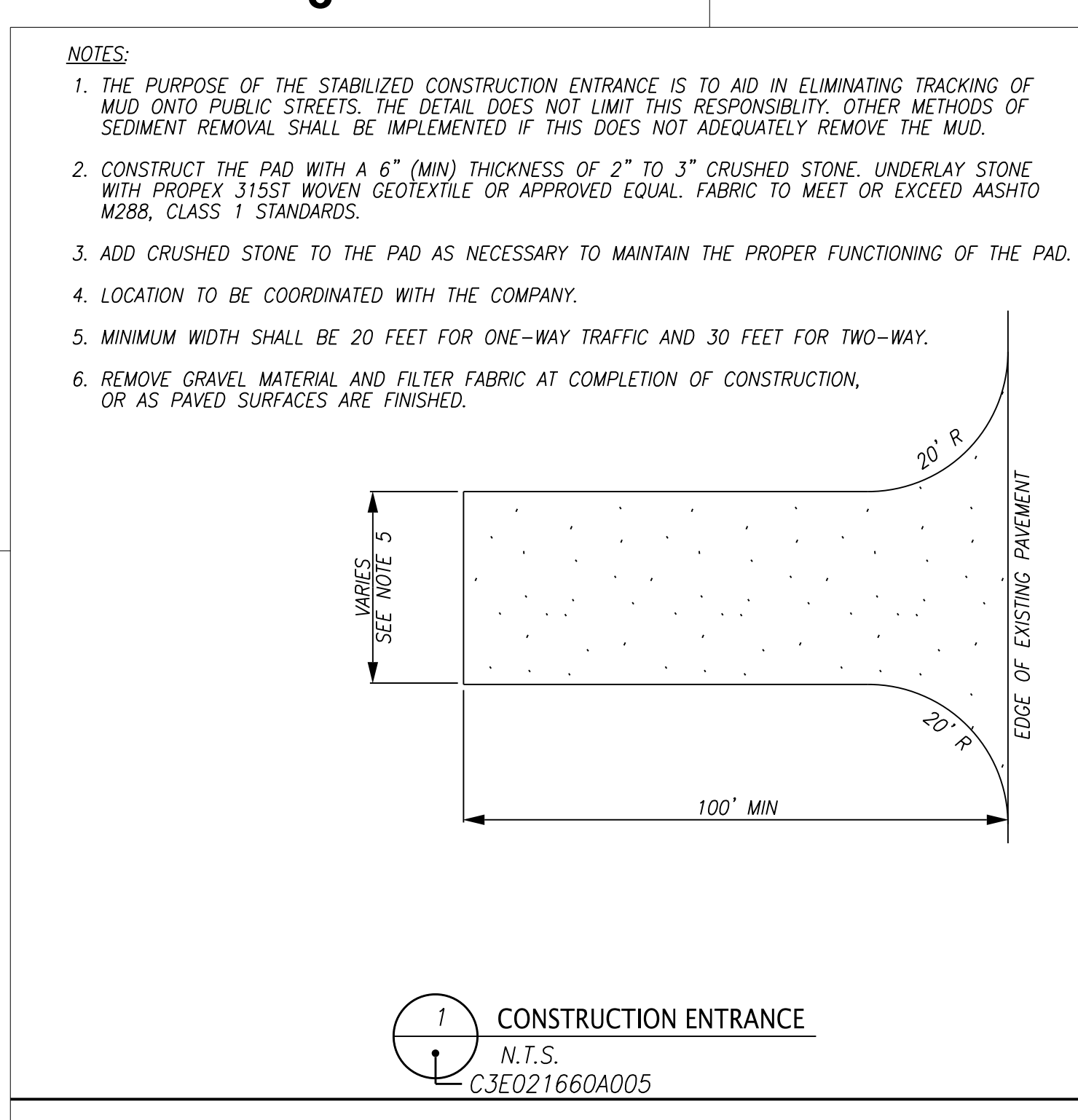
PROJECT RECORD NUMBER: X2020-0010

DRAWING NUMBER: C3E021660A004

DATE: 04/01/2021

REVISION 0 ISSUANCE





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IDENTIFIER OF SECTION OR DETAIL

DRAWING ON WHICH SECTION OR DETAIL IS SHOWN

**SECTION AND DETAIL KEY**

THIS DOCUMENT IS ISSUED IN ACCORDANCE WITH:

CHANGE CONTROL SYSTEM

F&O PROCEDURE

REV	DATE	DESCRIPTION	BY	CHECKED	DATE	REVISION OR ISSUE PURPOSE	REVISION OR ISSUE REVIEWERS
2		REVISED PER COMPANY COMMENTS	AMG	04/01/21	AMG	04/01/21	
1		REVISED PER COMPANY COMMENTS	AMG	03/22/21	AMG	03/22/21	
0		CERTIFIED FOR CONSTRUCTION	AMG	12/17/20	AMG	12/17/20	

REV	DATE	DESCRIPTION	BY	CHECKED	DATE	REVISION OR ISSUE PURPOSE	REVISION OR ISSUE REVIEWERS
2		REVISED PER COMPANY COMMENTS	AMG	04/01/21	AMG	04/01/21	
1		REVISED PER COMPANY COMMENTS	AMG	03/22/21	AMG	03/22/21	
0		CERTIFIED FOR CONSTRUCTION	AMG	12/17/20	AMG	12/17/20	

REV	DATE	DESCRIPTION	BY	CHECKED	DATE	REVISION OR ISSUE PURPOSE	REVISION OR ISSUE REVIEWERS
2		REVISED PER COMPANY COMMENTS	AMG	04/01/21	AMG	04/01/21	
1		REVISED PER COMPANY COMMENTS	AMG	03/22/21	AMG	03/22/21	
0		CERTIFIED FOR CONSTRUCTION	AMG	12/17/20	AMG	12/17/20	

CFC		C401	
RPE / RA	DSGN A. GRAY DRW A. CRENSHAW CHKR W. FULGHUM PE/A M. BUCHANAN PM N. JHAVERI PM A. HICKS REQ R. GRIFFEY CFM B. BARRITT CFM M. LIGHT	12/17/2020 12/17/2020 12/17/2020 12/17/2020 12/17/2020 12/17/2020 12/17/2020 12/17/2020	OAK RIDGE NATIONAL LABORATORY MANAGED BY UT-BATTELLE FOR THE US DEPARTMENT OF ENERGY Facilities and Operations Directorate Operated for the Department of Energy under the Government of the United States of America PROJECT NAME: ORNL Craft Resources Support Facility - Demolition Phase
		<b>DETAILS</b>	
2	04/01/2021	2	04/01/2021
REV.	DATE	REV.	DATE
SITE ORNL		BLDG 7033	
FL SH 5		OF 5	
UNCLASSIFIED		PROJECT RECORD NUMBER X2020-0010	
DRAWING NUMBER C3E021660A005		REV 2	





Building 7033



7033 Shed



## 7035 Series

(7035, 7035A, 7035B, 7035C, 7035E, 7035F)



Building 7062



Building 7070



Structure 7082



7105

♿  
HANDICAPPED  
PARKING

Trailer 7105





Sheds

# **Attachment 3: Characterization Information**

**CRSF BUILDINGS DEMOLITION PROJECT – ASBESTOS RESULTS BY BLDG**

Asbestos-containing materials are present in some of the facilities in materials such as window glazing and window caulking on the windows and door, transite wallboard on walls, black tar and pink wall fillers, and roof flashing type material on the side of a foundation slab. In addition, black tar material is located on roof screws with trace results for asbestos which should be handled as an OSHA “Unclassified Work Operation” activity consisting of, at a minimum, wet methods and HEPA vac, prompt cleanup and an exposure assessment for removal and disposal. Per the work operation method, this particular black tar on screws waste may be disposed of as construction debris. Any electrical wire that is not specifically addressed (cloth, cloth braided, rubber-like braided, or that has white insulation inside) is suspect for asbestos and should be treated as asbestos-containing materials unless bulk sampling is performed.

The table below provides the asbestos materials present by building and recommendations of removal and disposal methods.

Bldg	SID #	ASBESTOS MATERIAL AND WORK REMOVAL AND DISPOSAL METHODS	VOLUME
7035	14174, 14200	None	
7035A	13955, 14201	Yes, Transite wallboard; Class II Removal – Non-Friable	(32ft x 8ft) = 256 x 2 = 512 sq ft - possibly on north and east wall
7035B	13956, 14201	Yes, Transite wallboard; Class II Removal – Non-Friable	600 sq ft - on all four walls
7035C	13939	None	
7035E	13947, 14202	Yes, Transite wallboard; Class II Removal – Non-Friable	600 sq ft – behind plywood, assumed on all four walls
7035F	13944	None	
7062	14029, 14199	Yes, Door/ Window Glazing; Class II, Cut from facility, wrap and dispose – Non-Friable	~40 sq ft of window caulking and window glazing on windows and door
7033	14064, 14084, 14099, 14167, 14208	Yes, black tar filler and pink filler on walls; Class II Removal – Non-Friable	~10sq ft of black tar filler and pink spray filler
7105 Trailer	13959, 13962, 14203	None	
7070	13979 (Send expansion joint sample map)	Yes, Roof Flashing at Ground and Black Tar around roof screws. Class II Removal for Flashing – Non-Friable and OSHA Unclassified Work Operation for <1% asbestos in the black tar on screws and dispose of as construction debris	~40 sq ft of flashing material on base of bldg., and roof is 7000 sq ft and black tar on roof screws is about 1 sq. in. for each screw.
7082	SID14269 Inspection Only	None, No suspect electrical wire	

All buildings have suspect electrical wiring therefore, if braided, cloth-braided, rubber-like braided or insulated with white insulation material then suspect and treated as ACM – Non-Friable.

Building 7070 (shown below)



Bldg. 7070, SID13979; roof flashing material at base of bldg.

ASBESTOS BULK SAMPLE RESULT FOR THE CRSF BUILDING DEMOLITION PROJECT

Project ID	Sample ID	Sample Date	Location	Loc Level 2	Loc Level 3	Description of Sample Equipment and Placement While Sampling	Sample Comments	Result Type	Agent	Result	Unit
184	SID14208-08	14-Jan-21	7033	-	-	Bucket truck bay. Black tar expansion joint- South side of bay, center column	-	EXPANSION JOINT	ASBESTOS - PLM	NONE DETECTED	%
184	SID14208-07	14-Jan-21	7033	-	-	Change room. White textured surfacing wall coating material - SW corner on west wall. SID14084-5/6	-	COATING,SPRAYAPPLIED	ASBESTOS - PLM	NONE DETECTED	%
184	SID14208-06	14-Jan-21	7033	-	-	Change room. Gray mastic under ceramic floor tile(sample 05). South side by wall, west of door SID14064- 10/13	-	MASTIC, FLOOR TILE	ASBESTOS - PLM	NONE DETECTED	%
184	SID14208-04	14-Jan-21	7033	-	-	Room 3 (Kitchen) Yellow fiberglass insulation batting. SE corner above ceiling in east wall. SID14064- 33/34	-	INSULATION, BATTING	ASBESTOS - PLM	NONE DETECTED	%
184	SID14208-03	14-Jan-21	7033	-	-	Room 3 (Kitchen) - Pink fiberglass insulation batting. SE corner above ceiling in west wall SID14064- 29/30	-	INSULATION, BATTING	ASBESTOS - PLM	NONE DETECTED	%
184	SID14208-02	14-Jan-21	7033	-	-	Room 3 (Kitchen) - Pink greenguard insulation board - SW corner above ceiling. SID14064- 27/28	-	INSULATION, BOARD	ASBESTOS - PLM	NONE DETECTED	%
184	SID14208-01	14-Jan-21	7033	-	-	Room 3 - Kitchen Brown batted insulation - SW corner above ceiling in south wall. REF - SID14064 - 25/26	-	INSULATION, BATTING	ASBESTOS - PLM	NONE DETECTED	%
184	SID14208-09	14-Jan-21	7033	-	-	Bucket truck bay. Black tar expansion joint - Center of bay, center column.	-	EXPANSION JOINT	ASBESTOS - PLM	NONE DETECTED	%
184	SID14208-05	14-Jan-21	7033	-	-	Change room. 12 x 12 Tan/brown/black ceramic floor tile - South side by wall, west of door. SID14064- 9/12	-	TILE, CERAMIC	ASBESTOS - PLM	NONE DETECTED	%
184	SID14167-06	29-Dec-20	7033	FIRST	2	Pink Fiberglass Batt Insulation - NW Corner Above Two Drop Ceilings	-	INSULATION, BATT	ASBESTOS - PLM	NONE DETECTED	%
184	SID14167-05	29-Dec-20	7033	FIRST	2	2X4 Ceiling Tile, Fissure w/Pen Holes - NE Corner Above Two Drop Ceilings	-	TILE, CELLULOSE	ASBESTOS - PLM	NONE DETECTED	%
184	SID14167-04	29-Dec-20	7033	FIRST	2	2X4 Ceiling Tile, Fissure w/Pen Holes - NW Corner Above Two Drop Ceilings	-	TILE, CELLULOSE	ASBESTOS - PLM	NONE DETECTED	%
184	SID14167-03	29-Dec-20	7033	FIRST	2	Brown Spray Applied Ceiling Insulation - NE Corner Above Two Drop Ceilings	-	INSULATION,SPRAYAPPLY	ASBESTOS - PLM	NONE DETECTED	%
184	SID14167-02	29-Dec-20	7033	FIRST	2	Brown Spray Applied Ceiling Insulation - SW Corner Above Two Drop Ceilings	-	INSULATION,SPRAYAPPLY	ASBESTOS - PLM	NONE DETECTED	%
184	SID14167-01	29-Dec-20	7033	FIRST	2	Brown Spray Applied Ceiling Insulation - NW Corner Above Two Drop Ceilings	-	INSULATION,SPRAYAPPLY	ASBESTOS - PLM	NONE DETECTED	%

ASBESTOS BULK SAMPLE RESULT FOR THE CRSF BUILDING DEMOLITION PROJECT

184	SID14167-07	29-Dec-20	7033	FIRST	2	Pink Fiberglass Batt Insulation - SW Corner Above Two Drop Ceilings	-	INSULATION, BATT	ASBESTOS - PLM	NONE DETECTED	%
184	SID14099-15	3-Dec-20	7033	-	-	Brown Fiber Board w/Paper - SW Corner Behind Caulk, in Crack between Corrugated Metal Walls.	-	PANEL MATERIAL	ASBESTOS - PLM	NONE DETECTED	%
184	SID14099-16	3-Dec-20	7033	-	-	Brown Fiber Board w/Paper - SW Corner Behind Caulk, in Crack between Corrugated Metal Walls.	-	PANEL MATERIAL	ASBESTOS - PLM	NONE DETECTED	%
184	SID14099-11	3-Dec-20	7033	-	-	Yellow/Burnt Orange Spray Foam Filler - Outside South Wall of 02 in Storage Area of 01 at 7ft.	-	FILLERS, WALLS	ASBESTOS - PLM	NONE DETECTED	%
184	SID14099-12	3-Dec-20	7033	-	-	Yellow/Burnt Orange Spray Foam Filler - Outside South Wall of 02 in Storage Area of 01 at 7ft.	-	FILLERS, WALLS	ASBESTOS - PLM	NONE DETECTED	%
184	SID14099-13	3-Dec-20	7033	-	-	White Caulk - SW Corner of Room 02.	-	CAULKING NOT WINDOWS	ASBESTOS - PLM	NONE DETECTED	%
184	SID14099-14	3-Dec-20	7033	-	-	White Caulk - Above East Exterior Door of Room 02.	-	CAULKING NOT WINDOWS	ASBESTOS - PLM	NONE DETECTED	%
184	SID14099-10	2-Dec-20	7033	-	-	Pink Filler Putty Caulk - Outside SE Corner of Room 02 around conduit. Under Bucket Truck Area (01). Below Samples 07/08.	-	FILLERS, WALLS	ASBESTOS - CHRYSOTILE	4	%
184	SID14099-04	2-Dec-20	7033	-	-	White Caulk - Center of Roof (20 yr add on storage area (04)).	-	CAULKING NOT WINDOWS	ASBESTOS - PLM	NONE DETECTED	%
184	SID14099-05	2-Dec-20	7033	-	-	White Surfacing Roof Coating - NE Corner of Roof Above Kitchen 03.	-	ROOF COATING	ASBESTOS - PLM	NONE DETECTED	%
184	SID14099-06	2-Dec-20	7033	-	-	White Surfacing Roof Coating - Center of Roof Above Kitchen 03.	-	ROOF COATING	ASBESTOS - PLM	NONE DETECTED	%
184	SID14099-09	2-Dec-20	7033	-	-	Pink Filler Putty Caulk - Outside SE Corner of Room 02 around conduit. Under Bucket Truck Area (01). Below Samples 07/08.	-	FILLERS, WALLS	ASBESTOS - CHRYSOTILE	4	%
184	SID14099-08	2-Dec-20	7033	-	-	Black Tar w/Gray Layers - Outside SE Corner of Room 02 on Wall Beam near Ceiling. Under Bucket Truck Area (01).	-	FILLERS, WALLS	ASBESTOS - CHRYSOTILE	25	%
184	SID14099-03	2-Dec-20	7033	-	-	White Caulk - NE Corner f Roof (20 yr add on storage area (04)).	-	CAULKING NOT WINDOWS	ASBESTOS - PLM	NONE DETECTED	%
184	SID14099-02	2-Dec-20	7033	-	-	White Surfacing Roof Coating - SW Corner of Original Roof Above Bucket Truck Area (01).	-	ROOF COATING	ASBESTOS - PLM	NONE DETECTED	%
184	SID14099-01	2-Dec-20	7033	-	-	White Surfacing Roof Coating - Center of Original Roof Above Bucket Truck Area (01).	-	ROOF COATING	ASBESTOS - PLM	NONE DETECTED	%
184	SID14099-07	2-Dec-20	7033	-	-	Black Tar w/Gray Layers - Outside SE Corner of Room 02 on Wall Beam near Ceiling. Under Bucket Truck Area (01).	-	FILLERS, WALLS	ASBESTOS - CHRYSOTILE	20	%

ASBESTOS BULK SAMPLE RESULT FOR THE CRSF BUILDING DEMOLITION PROJECT

184	SID14084-11	24-Nov-20	7033	-	-	Black Grout - North Side of Wall Divider Between Shower and Locker Area in Room 05 (Change Room).	-	GROUT, TILE	ASBESTOS - PLM	NONE DETECTED	%
184	SID14084-12	24-Nov-20	7033	-	-	Black Grout - North Side of Wall Divider Between Shower Stalls in Room 05 (Change Room).	-	GROUT, TILE	ASBESTOS - PLM	NONE DETECTED	%
184	SID14084-13	24-Nov-20	7033	-	-	White Caulk - South Wall Divider Between Shower and Locker Area in Room 05 (Change Room).	-	CAULKING NOT WINDOWS	ASBESTOS - PLM	NONE DETECTED	%
184	SID14084-14	24-Nov-20	7033	-	-	White Caulk - South Wall Divider Between Shower and Stall in Room 05 (Change Room).	-	CAULKING NOT WINDOWS	ASBESTOS - PLM	NONE DETECTED	%
184	SID14084-15	24-Nov-20	7033	-	-	Brown Spray Filler Insulation - Outside at SW Corner of Room 05 (Changeroom)	-	FILLERS, WALLS	ASBESTOS - PLM	NONE DETECTED	%
184	SID14084-16	24-Nov-20	7033	-	-	Brown Spray Filler Insulation - Outside at West Side of NW Corner of Room 05 (Kitchen).	-	FILLERS, WALLS	ASBESTOS - PLM	NONE DETECTED	%
184	SID14084-08	24-Nov-20	7033	-	-	White Drywall with Green and White Top Layer - South Wall Above Door and Ceiling in Room 05 (Changeroom).	-	DRYWALL	ASBESTOS - PLM	NONE DETECTED	%
184	SID14084-07	24-Nov-20	7033	-	-	White Drywall with Green and White Top Layer - West Wall Above Door and Ceiling in Room 02B (Hallway).	-	DRYWALL	ASBESTOS - PLM	NONE DETECTED	%
184	SID14084-06	24-Nov-20	7033	-	-	White Textured Wall Coating - South Wall, West of Exterior Door of Room 05 (Change Room).	-	COATING, SPRAY APPLIED	ASBESTOS - PLM	NONE DETECTED	%
184	SID14084-05	24-Nov-20	7033	-	-	White Textured Wall Coating - West Wall, South Side Beside Door of Room 02B (Hallway)	-	COATING, SPRAY APPLIED	ASBESTOS - PLM	NONE DETECTED	%
184	SID14084-04	24-Nov-20	7033	-	-	2 FT x 4 FT White Cellulose Tile, Fissured - North Side West Ceiling of Room 02B (Hallway)	-	TILE, CELLULOSE	ASBESTOS - PLM	NONE DETECTED	%
184	SID14084-03	24-Nov-20	7033	-	-	2 FT x 4 FT White Cellulose Tile, Fissured - North Side Middle Ceiling of Room 02B (Hallway)	-	TILE, CELLULOSE	ASBESTOS - PLM	NONE DETECTED	%
184	SID14084-02	24-Nov-20	7033	-	-	2 FT x 4 FT White Cellulose Tile, Fissured - North Side Ceiling of Room 05 (Change Room)	-	TILE, CELLULOSE	ASBESTOS - PLM	NONE DETECTED	%
184	SID14084-01	24-Nov-20	7033	-	-	2 FT x 4 FT White Cellulose Tile, Fissured - South Side Ceiling of Room 05 (Change Room)	-	TILE, CELLULOSE	ASBESTOS - PLM	NONE DETECTED	%
184	SID14064-29	20-Nov-20	7033	-	-	Pink fiberglass insulation - Kitchen, Inside south wall above ceiling in SW corner.	-	INSULATION, BATT	ASBESTOS - PLM	NONE DETECTED	%
184	SID14064-30	20-Nov-20	7033	-	-	Pink fiberglass insulation - Kitchen, Inside south wall above ceiling in SW corner.	-	INSULATION, BATT	ASBESTOS - PLM	NONE DETECTED	%
184	SID14064-31	20-Nov-20	7033	-	-	Clear caulk - Kitchen, East wall, north of door	-	CAULKING NOT WINDOWS	ASBESTOS - PLM	NONE DETECTED	%
184	SID14064-32	20-Nov-20	7033	-	-	Clear caulk - Kitchen, East wall, north of door	-	CAULKING NOT WINDOWS	ASBESTOS - PLM	NONE DETECTED	%

ASBESTOS BULK SAMPLE RESULT FOR THE CRSF BUILDING DEMOLITION PROJECT

184	SID14064-33	20-Nov-20	7033	-	-	Yellow fiberglass - East wall above ceiling and exterior door.	-	INSULATION, BATT	ASBESTOS - PLM	NONE DETECTED	%
184	SID14064-34	20-Nov-20	7033	-	-	Yellow fiberglass - East wall above ceiling and exterior door.	-	INSULATION, BATT	ASBESTOS - PLM	NONE DETECTED	%
184	SID14064-25	20-Nov-20	7033	-	-	Brown insulation - Kitchen, Inside south wall above ceiling in SW corner.	-	INSULATION, BATT	ASBESTOS - PLM	NONE DETECTED	%
184	SID14064-26	20-Nov-20	7033	-	-	Brown insulation - Kitchen, Inside south wall above ceiling in SW corner.	-	INSULATION, BATT	ASBESTOS - PLM	NONE DETECTED	%
184	SID14064-28	20-Nov-20	7033	-	-	Purple "Greenguard" insulation board - Kitchen, Inside south wall above ceiling in SW corner.	-	INSULATION, BOARD	ASBESTOS - PLM	NONE DETECTED	%
184	SID14064-23	20-Nov-20	7033	-	-	2X4 Ceiling Tile, Cellulose, Spe - Kitchen, SE corner.	-	TILE, CELLULOSE	ASBESTOS - PLM	NONE DETECTED	%
184	SID14064-27	20-Nov-20	7033	-	-	Purple "Greenguard" insulation board - Kitchen, Inside south wall above ceiling in SW corner.	-	INSULATION, BOARD	ASBESTOS - PLM	NONE DETECTED	%
184	SID14064-24	20-Nov-20	7033	-	-	2X4 Ceiling Tile, Cellulose - Kitchen, SW corner.	-	TILE, CELLULOSE	ASBESTOS - PLM	NONE DETECTED	%
184	SID14064-17	19-Nov-20	7033	-	-	White caulk - Rm 01, West wall, north of door into Rm 02; Between slab and corrugated wall. Bucket truck area.	-	CAULKING NOT WINDOWS	ASBESTOS - PLM	NONE DETECTED	%
184	SID14064-18	19-Nov-20	7033	-	-	White caulk - Rm 01, Between south corrugated wall and floor slab on SE corner. Staging area.	-	CAULKING NOT WINDOWS	ASBESTOS - PLM	NONE DETECTED	%
184	SID14064-22	19-Nov-20	7033	-	-	Silver caulk - West side outside corner of room 03 and 05.	-	CAULKING NOT WINDOWS	ASBESTOS - PLM	NONE DETECTED	%
184	SID14064-21	19-Nov-20	7033	-	-	Silver caulk - East side outside corner of room 02 and 03.	-	CAULKING NOT WINDOWS	ASBESTOS - PLM	NONE DETECTED	%
184	SID14064-19	19-Nov-20	7033	-	-	White caulk - South outside wall between metal wall and concrete pad of Rm 04 storage area.	-	CAULKING NOT WINDOWS	ASBESTOS - PLM	NONE DETECTED	%
184	SID14064-20	19-Nov-20	7033	-	-	White caulk - West outside wall between metal wall and concrete pad of Rm 04 storage area.	-	CAULKING NOT WINDOWS	ASBESTOS - PLM	NONE DETECTED	%
184	SID14064-11	18-Nov-20	7033	-	-	Gray grout - Kitchen (Rm 03) Floor near center of south wall associated with sample 09.	-	GROUT, TILE	ASBESTOS - PLM	NONE DETECTED	%
184	SID14064-10	18-Nov-20	7033	-	-	Gray mastic - Kitchen (Rm 03) Floor near center of south wall associated with sample 09.	-	MASTIC, FLOOR TILE	ASBESTOS - PLM	NONE DETECTED	%
184	SID14064-09	18-Nov-20	7033	-	-	12X12 Tan, brown, black tile - Kitchen (Rm 03) Floor near center of south wall.	-	TILE, CERAMIC	ASBESTOS - PLM	NONE DETECTED	%
184	SID14064-08	18-Nov-20	7033	-	-	Joint compound - Kitchen (Rm 03), East wall beside exterior door.	-	JOINT COMPOUND	ASBESTOS - PLM	NONE DETECTED	%
184	SID14064-07	18-Nov-20	7033	-	-	Drywall - Kitchen (Rm 03), East wall, beside east exterior door.	-	DRYWALL	ASBESTOS - PLM	NONE DETECTED	%



ASBESTOS BULK SAMPLE RESULT FOR THE CRSF BUILDING DEMOLITION PROJECT

184	SID14064-06	18-Nov-20	7033	-	-	Joint compound - Kitchen (Rm 03), South wall. SW corner.	-	JOINT COMPOUND	ASBESTOS - PLM	NONE DETECTED	%
184	SID14064-05	18-Nov-20	7033	-	-	Drywall - Kitchen (Rm 03), Center of south wall .	-	DRYWALL	ASBESTOS - PLM	NONE DETECTED	%
184	SID14064-04	18-Nov-20	7033	-	-	White mastic - Kitchen (Rm 03), East wall beside door associated with sample 03.	-	MASTIC, BASEBOARD	ASBESTOS - PLM	NONE DETECTED	%
184	SID14064-03	18-Nov-20	7033	-	-	Dark Gray Baseboard - Kitchen (Rm 03), East wall beside exterior door.	-	BASEBOARD	ASBESTOS - PLM	NONE DETECTED	%
184	SID14064-02	18-Nov-20	7033	-	-	White mastic - Kitchen (Rm 03), Center of south wall associated with sample 01.	-	MASTIC, BASEBOARD	ASBESTOS - PLM	NONE DETECTED	%
184	SID14064-01	18-Nov-20	7033	-	-	Dark Gray Baseboard - Kitchen (Rm 03), Center of south wall	-	BASEBOARD	ASBESTOS - PLM	NONE DETECTED	%
184	SID14064-16	18-Nov-20	7033	-	-	Black Expansion Joint - Rm 01, Between staging area and bucket truck covered area; North side of expansion joint.	-	EXPANSION JOINT	ASBESTOS - PLM	NONE DETECTED	%
184	SID14064-15	18-Nov-20	7033	-	-	Black Expansion Joint - Rm 01, Between staging area and bucket truck covered area; South side of expansion joint.	-	EXPANSION JOINT	ASBESTOS - PLM	NONE DETECTED	%
184	SID14064-14	18-Nov-20	7033	-	-	Gray grout - Kitchen (Rm 03) Floor beside east exterior door associated with sample 12.	-	GROUT, TILE	ASBESTOS - PLM	NONE DETECTED	%
184	SID14064-12	18-Nov-20	7033	-	-	12X12 Tan, brown, black tile - Kitchen (Rm 03) Floor beside east exterior door.	-	TILE, CERAMIC	ASBESTOS - PLM	NONE DETECTED	%
184	SID14064-13	18-Nov-20	7033	-	-	Gray mastic - Kitchen (Rm 03) Floor beside east exterior door associated with sample 12.	-	MASTIC, FLOOR TILE	ASBESTOS - PLM	NONE DETECTED	%
184	SID14084-09	24-Nov-20	7033	-	-	Yellow Fiber Glass - South Wall Above Door and Ceiling in Room 05 (Change Room).	-	INSULATION, BATT	ASBESTOS - PLM	NONE DETECTED	%
184	SID14084-10	24-Nov-20	7033	-	-	Yellow Fiber Glass - South Wall West of Door in Room 05 (Change Room).	-	INSULATION, BATT	ASBESTOS - PLM	NONE DETECTED	%
184	SID14200-06	13-Jan-21	7035	-	-	Clear, Silicone Caulk. Located on the northwest side of the interior enclosure.	-	CAULKING NOT WINDOWS	ASBESTOS - PLM	NONE DETECTED	%
184	SID14200-05	13-Jan-21	7035	-	-	Clear, Silicone Caulk. Located on the northwest side of the interior enclosure.	-	CAULKING NOT WINDOWS	ASBESTOS - PLM	NONE DETECTED	%
184	SID14200-04	13-Jan-21	7035	-	-	White Caulk (AC). Around the Ac unit on interior, west wall by the door.	-	CAULKING NOT WINDOWS	ASBESTOS - PLM	NONE DETECTED	%
184	SID14200-03	13-Jan-21	7035	-	-	White Caulk (AC). Around the Ac unit on interior, west wall by the door.	-	CAULKING NOT WINDOWS	ASBESTOS - PLM	NONE DETECTED	%
184	SID14200-02	13-Jan-21	7035	-	-	Gunmetal Gray Caulk. Located in the center of room enclosure, above the door (north side of door frame).	-	CAULKING NOT WINDOWS	ASBESTOS - PLM	NONE DETECTED	%

ASBESTOS BULK SAMPLE RESULT FOR THE CRSF BUILDING DEMOLITION PROJECT

184	SID14200-01	13-Jan-21	7035	-	-	Gunmetal Gray Caulk. Located in the center of room enclosure, above the door (south side of door frame).).	-	CAULKING NOT WINDOWS	ASBESTOS - PLM	NONE DETECTED	%
184	SID14174-05	31-Dec-20	7035	-	-	Black window glazing/caulking. Located on the north door, west side of 7035.	-	WINDOW CAULKING	ASBESTOS - PLM	NONE DETECTED	%
184	SID14174-04	31-Dec-20	7035	-	-	White/gray caulk, south of AC unit (west side of 7035).	-	CAULKING NOT WINDOWS	ASBESTOS - PLM	NONE DETECTED	%
184	SID14174-03	31-Dec-20	7035	-	-	White/gray caulk, north of AC unit (west side of 7035).	-	CAULKING NOT WINDOWS	ASBESTOS - PLM	NONE DETECTED	%
184	SID14174-02	31-Dec-20	7035	-	-	White caulk/paint/Roof Coating, center of south side of the roof.	-	ROOF COATING	ASBESTOS - PLM	NONE DETECTED	%
184	SID14174-01	31-Dec-20	7035	-	-	White caulk/paint/Roof Coating, south west corner of the roof.	-	ROOF COATING	ASBESTOS - PLM	NONE DETECTED	%
184	SID14174-06	31-Dec-20	7035	-	-	Black window glazing/caulking. Located on the south door, west side of 7035.	-	WINDOW CAULKING	ASBESTOS - PLM	NONE DETECTED	%
184	SID14199-01	13-Jan-21	7062	-	-	White Fiberglass Insulation. Located on the northeast corner of the building's exterior.	-	INSULATION, BATT	ASBESTOS - PLM	NONE DETECTED	%
184	SID14029-01	5-Nov-20	7062	-	-	Black Window Caulk. Located on the interior, west facing door.	-	WINDOW CAULKING	ASBESTOS - CHRYSOTILE	3	%
184	SID14029-02	5-Nov-20	7062	-	-	Black Window Caulk. Located on the interior, west facing door.	-	WINDOW CAULKING	ASBESTOS - CHRYSOTILE	3	%
184	SID14029-03	5-Nov-20	7062	-	-	Yellow Foam wall filler Insulation. Located on the north exterior between the wall and the roof.	-	FILLERS, WALLS	ASBESTOS - PLM	NONE DETECTED	%
184	SID14029-04	5-Nov-20	7062	-	-	White Fiberglass batt Insulation. Located on the northwest exterior between layers of the roof.	-	INSULATION, BATT	ASBESTOS - PLM	NONE DETECTED	%
184	SID14029-05	5-Nov-20	7062	-	-	White Caulk. Located on the exterior door, west side.	-	WINDOW CAULKING	ASBESTOS - PLM	NONE DETECTED	%
184	SID14029-06	5-Nov-20	7062	-	-	White Caulk. Located on the exterior door, west side.	-	WINDOW CAULKING	ASBESTOS - PLM	NONE DETECTED	%
184	SID14029-07	5-Nov-20	7062	-	-	Yellow Foam wall filler Insulation. Located on the west wall interior.	-	FILLERS, WALLS	ASBESTOS - PLM	NONE DETECTED	%
184	SID14029-08	5-Nov-20	7062	-	-	Yellow Foam wall filler Insulation. Located on the west wall interior.	-	FILLERS, WALLS	ASBESTOS - PLM	NONE DETECTED	%
184	SID14029-09	5-Nov-20	7062	-	-	White Roof Caulk/Coating. North side of the roof.	-	ROOF COATING	ASBESTOS - PLM	NONE DETECTED	%
184	SID14029-10	5-Nov-20	7062	-	-	White Roof Caulk/Coating. Southeast of the roof.	-	ROOF COATING	ASBESTOS - PLM	NONE DETECTED	%
184	SID14029-11	5-Nov-20	7062	-	-	White Window Glazing on north exterior window.	-	WINDOW GLAZING	ASBESTOS - CHRYSOTILE	3	%

ASBESTOS BULK SAMPLE RESULT FOR THE CRSF BUILDING DEMOLITION PROJECT

184	SID14029-12	5-Nov-20	7062	-	-	White Window Glazing on south interior window.	-	WINDOW GLAZING	ASBESTOS - CHRYSOTILE	3	%
184	SID14029-13	5-Nov-20	7062	-	-	White, Painted Blue Window Caulk. Located on the south exterior door of room 101.	-	WINDOW CAULKING	ASBESTOS - PLM	NONE DETECTED	%
184	SID14029-14	5-Nov-20	7062	-	-	White, Painted Blue Window Caulk. Located on the south exterior door of room 102.	-	WINDOW CAULKING	ASBESTOS - PLM	NONE DETECTED	%
184	SID14029-15	5-Nov-20	7062	-	-	White Caulk around AC. Located on the north side exterior.	-	CAULKING NOT WINDOWS	ASBESTOS - PLM	NONE DETECTED	%
184	SID14029-16	5-Nov-20	7062	-	-	White Caulk around AC. Located on the northeast side exterior.	-	CAULKING NOT WINDOWS	ASBESTOS - PLM	NONE DETECTED	%
184	SID14029-17	5-Nov-20	7062	-	-	Yellow Foam wall filler Insulation. Located on the northeast corner.	-	FILLERS, WALLS	ASBESTOS - PLM	NONE DETECTED	%
184	SID14029-18	5-Nov-20	7062	-	-	White Fiberglass batt Insulation. Located on the northeast corner.	-	INSULATION, BATT	ASBESTOS - PLM	NONE DETECTED	%
184	SID14029-19	5-Nov-20	7062	-	-	White caulk. Located on southeast building exterior.	-	CAULKING NOT WINDOWS	ASBESTOS - PLM	NONE DETECTED	%
184	SID14029-20	5-Nov-20	7062	-	-	White caulk. Located on east building exterior.	-	CAULKING NOT WINDOWS	ASBESTOS - PLM	NONE DETECTED	%
184	SID13979-13	23-Oct-20	7070	-	-	Black roof coating - South east roof	-	ROOF COATING	ASBESTOS - PLM	NONE DETECTED	%
184	SID13979-09	23-Oct-20	7070	-	-	Green roof coating - West side middle.	-	ROOF COATING	ASBESTOS - PLM	NONE DETECTED	%
184	SID13979-10	23-Oct-20	7070	-	-	Green roof coating - West side around screws.	-	ROOF COATING	ASBESTOS - PLM	NONE DETECTED	%
184	SID13979-11	23-Oct-20	7070	-	-	Black roof tar - West side middle.	-	ROOF TAR	ASBESTOS - PLM	NONE DETECTED	%
184	SID13979-14	23-Oct-20	7070	-	-	Black roof tar - West side around screws.	-	ROOF TAR	ASBESTOS - PLM	NONE DETECTED	%
184	SID13979-12	23-Oct-20	7070	-	-	Black roof tar - West side around screws.	-	ROOF TAR	ASBESTOS - CHRYSOTILE	<1	%
184	SID13979-08	21-Oct-20	7070	-	-	Cellulose ceiling tile (2X4) - Center of compactor room (room 03).	-	TILE, CELLULOSE	ASBESTOS - PLM	NONE DETECTED	%
184	SID13979-01	21-Oct-20	7070	-	-	Black expansion joint - East side of building below green gate.	-	EXPANSION JOINT	ASBESTOS - PLM	NONE DETECTED	%
184	SID13979-02	21-Oct-20	7070	-	-	Black expansion joint - West side of building below lumber storage gate.	-	EXPANSION JOINT	ASBESTOS - PLM	NONE DETECTED	%
184	SID13979-05	21-Oct-20	7070	-	-	Gray caulk - Outside NE corner of building on east side. Between corrugated metal wall and concrete floor. North of sample 06.	-	CAULKING NOT WINDOWS	ASBESTOS - PLM	NONE DETECTED	%

ASBESTOS BULK SAMPLE RESULT FOR THE CRSF BUILDING DEMOLITION PROJECT

184	SID13979-06	21-Oct-20	7070	-	-	Gray caulk - Outside east side of building. Between corrugated metal wall and concrete floor. South of sample 05.	-	CAULKING NOT WINDOWS	ASBESTOS - PLM	NONE DETECTED	%
184	SID13979-07	21-Oct-20	7070	-	-	Cellulose ceiling tile (2X4) - East side of compactor room (room 03).	-	TILE, CELLULOSE	ASBESTOS - PLM	NONE DETECTED	%
184	SID13979-03	21-Oct-20	7070	-	-	Black tar flashing w/white paper cover - East side of building in front of lumber storage. North of sample 04.	Analysis revealed the silver paint layer as 3% asbestos chrysotile and the black tar felt layer as None Detected.	ROOF FLASHING	ASBESTOS - CHRYSOTILE	3	%
184	SID13979-04	21-Oct-20	7070	-	-	Black tar flashing w/white paper cover - East side of building in front of lumber storage. South of sample 03.	Analysis revealed the silver paint layer as 3% asbestos chrysotile and the black tar felt layer as None Detected.	ROOF FLASHING	ASBESTOS - CHRYSOTILE	3	%
184	SID14269-01	29-Jan-21	7082	-	-	Inspection only	-	INSPECTION	ASBESTOS - PLM	INSPECTION	%
184	SID14203-01	13-Jan-21	7105	FIRST	-	Room # 2. White fiberglass Batt insulation in east wall near floor.	-	INSULATION, BATTING	ASBESTOS - PLM	NONE DETECTED	%
184	SID13962-01	23-Oct-20	7105	-	-	Roof - Southeast end of roof. - Rubber roof	-	ROOF MATERIAL	ASBESTOS - PLM	NONE DETECTED	%
184	SID13962-02	23-Oct-20	7105	-	-	Roof - Southeast end of roof. - Adhesive under the Rubber roof	-	ROOF MATERIAL	ASBESTOS - PLM	NONE DETECTED	%
184	SID13962-03	23-Oct-20	7105	-	-	Roof - South end of roof. - Rubber roof	-	ROOF MATERIAL	ASBESTOS - PLM	NONE DETECTED	%
184	SID13962-04	23-Oct-20	7105	-	-	Roof - South end of roof. - Adhesive under the Rubber roof	-	ROOF MATERIAL	ASBESTOS - PLM	NONE DETECTED	%
184	SID13959-20	13-Oct-20	7105	FIRST	-	Room 3 - Southwest door (exterior) - clear window caulking	-	WINDOW CAULKING	ASBESTOS - PLM	NONE DETECTED	%
184	SID13959-21	13-Oct-20	7105	FIRST	1	Room 1 - Northwest door frame. Door caulk - white (painted cream)	-	CAULKING NOT WINDOWS	ASBESTOS - PLM	NONE DETECTED	%
184	SID13959-22	13-Oct-20	7105	FIRST	-	Room 3 - Southwest door frame. Caulk around frame of door. White (painted cream)	-	CAULKING NOT WINDOWS	ASBESTOS - PLM	NONE DETECTED	%
184	SID13959-23	13-Oct-20	7105	FIRST	1	Room 1 - Northwest outside light- Clear caulk	-	CAULKING NOT WINDOWS	ASBESTOS - PLM	NONE DETECTED	%
184	SID13959-24	13-Oct-20	7105	FIRST	-	Room 3 - Southwest outside light- clear caulk	-	CAULKING NOT WINDOWS	ASBESTOS - PLM	NONE DETECTED	%

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184	SID13959-25	13-Oct-20	7105	FIRST	1	Room 1 - Northeast window (exterior) - clear window caulking	-	WINDOW CAULKING	ASBESTOS - PLM	NONE DETECTED	%
184	SID13959-26	13-Oct-20	7105	FIRST	-	Room 3 - Southeast window (exterior) - clear window caulking	-	WINDOW CAULKING	ASBESTOS - PLM	NONE DETECTED	%
184	SID13959-19	13-Oct-20	7105	FIRST	1	Room 1 northwest door (exterior) - Clear window caulking	-	WINDOW CAULKING	ASBESTOS - PLM	NONE DETECTED	%
184	SID13959-18	13-Oct-20	7105	FIRST	-	Room 3 - Southwest door (exterior) - black window glazing	-	WINDOW GLAZING	ASBESTOS - PLM	NONE DETECTED	%
184	SID13959-17	13-Oct-20	7105	FIRST	1	Room 1 - Northwest door (exterior) - black window glazing	-	WINDOW GLAZING	ASBESTOS - PLM	NONE DETECTED	%
184	SID13959-16	13-Oct-20	7105	FIRST	-	Room 3 - Southwest wall - white fiberglass insulation in the wall	-	INSULATION, BATTING	ASBESTOS - PLM	NONE DETECTED	%
184	SID13959-15	13-Oct-20	7105	FIRST	-	Room 3 - Drywall on Southwest wall	-	DRYWALL	ASBESTOS - PLM	NONE DETECTED	%
184	SID13959-14	13-Oct-20	7105	FIRST	-	Room 3 - Southwest wall - wall paper covering and mastic	-	PAPER, WALL COVERING	ASBESTOS - PLM	NONE DETECTED	%
184	SID13959-13	13-Oct-20	7105	FIRST	-	Room 2 - White fiberglass insulation in wall southwest corner of room	-	INSULATION, BATTING	ASBESTOS - PLM	NONE DETECTED	%
184	SID13959-12	13-Oct-20	7105	FIRST	-	Room 2 - Ceiling drywall - Center of room 2	-	DRYWALL	ASBESTOS - PLM	NONE DETECTED	%
184	SID13959-11	13-Oct-20	7105	FIRST	1	Room 1 - Ceiling Drywall North side of room	-	DRYWALL	ASBESTOS - PLM	NONE DETECTED	%
184	SID13959-10	13-Oct-20	7105	FIRST	-	Room 2 - Center area of room - Popcorn Textured spray applied material on ceiling	-	COATING, SPRAY APPLIED	ASBESTOS - PLM	NONE DETECTED	%
184	SID13959-09	13-Oct-20	7105	FIRST	1	Room 1 - north area of room - Popcorn Textured spray applied material on ceiling	-	COATING, SPRAY APPLIED	ASBESTOS - PLM	NONE DETECTED	%
184	SID13959-08	13-Oct-20	7105	FIRST	-	Room 2 - Yellow mastic under sample # 6; north side of room	-	MASTIC, FLOOR TILE	ASBESTOS - PLM	NONE DETECTED	%
184	SID13959-07	13-Oct-20	7105	FIRST	1	Room 1 - Yellow mastic under sample # 5; northwest corner	-	MASTIC, FLOOR TILE	ASBESTOS - PLM	NONE DETECTED	%
184	SID13959-06	13-Oct-20	7105	FIRST	-	Room 2 - North wall area - 12 x 12 beige with brown and tan marbled tile	-	FLOOR TILE	ASBESTOS - PLM	NONE DETECTED	%
184	SID13959-05	13-Oct-20	7105	FIRST	1	Room 1 - Northwest corner - 12 x 12 beige with brown and tan marbled tile	-	FLOOR TILE	ASBESTOS - PLM	NONE DETECTED	%
184	SID13959-04	13-Oct-20	7105	FIRST	1	Room 1 - Northwest corner - Drywall behind wall paper covering	-	DRYWALL	ASBESTOS - PLM	NONE DETECTED	%
184	SID13959-03	13-Oct-20	7105	FIRST	1	Room 1 - Southwest corner - Drywall behind wall paper covering	-	DRYWALL	ASBESTOS - PLM	NONE DETECTED	%
184	SID13959-01	13-Oct-20	7105	FIRST	1	Room 1 - Southwest corner - tan and white wall paper covering and mastic	-	PAPER, WALL COVERING	ASBESTOS - PLM	NONE DETECTED	%

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184	SID13959-02	13-Oct-20	7105	FIRST	1	Room 1 - Northwest corner - tan and white Wall paper covering and mastic	-	PAPER, WALL COVERING	ASBESTOS - PLM	NONE DETECTED	%
184	SID14201-01	13-Jan-21	7035A	-	-	White Fiberglass Insulation. Located on the northwest corner above ceiling.	HA-01	INSULATION, BATT	ASBESTOS - PLM	NONE DETECTED	%
184	SID13955-01	12-Oct-20	7035A	-	-	White fiberglass batt insulation. Above ceiling on north side.	HA-01	INSULATION, BATT	ASBESTOS - PLM	NONE DETECTED	%
184	SID13955-02	12-Oct-20	7035A	-	-	White fiberglass batt insulation. Above ceiling on north side.	HA-01	INSULATION, BATT	ASBESTOS - PLM	NONE DETECTED	%
184	SID13955-03	12-Oct-20	7035A	-	-	Yellow fiberglass batt insulation. Above ceiling on north side.	HA-02	INSULATION, BATT	ASBESTOS - PLM	NONE DETECTED	%
184	SID13955-04	12-Oct-20	7035A	-	-	Yellow fiberglass batt insulation. Above ceiling on west side.	HA-02	INSULATION, BATT	ASBESTOS - PLM	NONE DETECTED	%
184	SID13955-05	12-Oct-20	7035A	-	-	Yellow fiberglass batt insulation w/ aluminum backing. Above ceiling, east side.	HA-03	INSULATION, BATT	ASBESTOS - PLM	NONE DETECTED	%
184	SID13955-06	12-Oct-20	7035A	-	-	Yellow fiberglass batt insulation w/ aluminum backing. Above ceiling, east side.	HA-03	INSULATION, BATT	ASBESTOS - PLM	NONE DETECTED	%
184	SID13955-07	12-Oct-20	7035A	-	-	White window glazing. Interior door on west side.	HA-04	WINDOW GLAZING	ASBESTOS - PLM	NONE DETECTED	%
184	SID13955-08	12-Oct-20	7035A	-	-	White window glazing. Exterior door on west side.	HA-04	WINDOW GLAZING	ASBESTOS - PLM	NONE DETECTED	%
184	SID13955-09	12-Oct-20	7035A	-	-	Gray caulk over door.	HA-05	CAULKING NOT WINDOWS	ASBESTOS - PLM	NONE DETECTED	%
184	SID13955-10	12-Oct-20	7035A	-	-	Gray caulk over door.	HA-05	CAULKING NOT WINDOWS	ASBESTOS - PLM	NONE DETECTED	%
184	SID14201-03	13-Jan-21	7035A	-	-	White Fiberglass Insulation w/ Aluminum Backing. Located on the northwest wall.	HA-06	INSULATION, BATT	ASBESTOS - PLM	NONE DETECTED	%
184	SID14201-02	13-Jan-21	7035A	-	-	White Fiberglass Insulation w/ Aluminum Backing. Located on the northwest wall.	HA-06	INSULATION, BATT	ASBESTOS - PLM	NONE DETECTED	%
184	SID13955-11	12-Oct-20	7035A	-	-	White fiberglass with aluminum backing. Located on interior north wall.	HA-06	INSULATION, BATT	ASBESTOS - PLM	NONE DETECTED	%
184	SID14201-04	13-Jan-21	7035A	-	-	Pink Fiberglass Insulation w/ Aluminum Backing. Located on the interior wall, east side.	HA-07	INSULATION, BATT	ASBESTOS - PLM	NONE DETECTED	%
184	SID14201-05	13-Jan-21	7035A	-	-	Pink Fiberglass Insulation w/ Aluminum Backing. Located on the interior wall, east side.	HA-07	INSULATION, BATT	ASBESTOS - PLM	NONE DETECTED	%
184	SID13955-12	12-Oct-20	7035A	-	-	Pink fiberglass with aluminum backing. Located inside dividing wall of east room.	HA-07	INSULATION, BATT	ASBESTOS - PLM	NONE DETECTED	%
184	SID13955-13	12-Oct-20	7035A	-	-	White drywall sheets. Located on interior dividing wall.	HA-08	DRYWALL	ASBESTOS - PLM	NONE DETECTED	%
184	SID13955-15	12-Oct-20	7035A	-	-	White drywall sheets. Located on the northwest wall.	HA-08	DRYWALL	ASBESTOS - PLM	NONE DETECTED	%

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184	SID13955-14	12-Oct-20	7035A	-	-	Pink drywall sheets. Located on the north facing wall.	HA-09	DRYWALL	ASBESTOS - PLM	NONE DETECTED	%
184	SID13955-16	12-Oct-20	7035A	-	-	Pink drywall sheets. Located on the west wall by door.	HA-09	DRYWALL	ASBESTOS - PLM	NONE DETECTED	%
184	SID13955-17	12-Oct-20	7035A	-	-	Joint compound associated with pink drywall HA-09. Located on west wall by door.	HA-10	JOINT COMPOUND	ASBESTOS - PLM	NONE DETECTED	%
184	SID13955-18	12-Oct-20	7035A	-	-	Joint compound associated with pink drywall HA-09. Located on northwest wall.	HA-10	JOINT COMPOUND	ASBESTOS - PLM	NONE DETECTED	%
184	SID13955-19	12-Oct-20	7035A	-	-	Joint compound associated with white drywall HA-08. Located on south wall of east room.	HA-11	JOINT COMPOUND	ASBESTOS - PLM	NONE DETECTED	%
184	SID13955-20	12-Oct-20	7035A	-	-	Joint compound associated with white drywall HA-08. Located on the east dividing wall.	HA-11	JOINT COMPOUND	ASBESTOS - PLM	NONE DETECTED	%
184	SID13955-21	12-Oct-20	7035A	-	-	Gray baseboard. North dividing wall.	HA-12	BASEBOARD	ASBESTOS - PLM	NONE DETECTED	%
184	SID13955-23	12-Oct-20	7035A	-	-	Gray baseboard. North exterior wall.	HA-12	BASEBOARD	ASBESTOS - PLM	NONE DETECTED	%
184	SID13955-22	12-Oct-20	7035A	-	-	White mastic associated with gray baseboard HA-12. Located on north dividing wall.	HA-13	MASTIC, BASEBOARD	ASBESTOS - PLM	NONE DETECTED	%
184	SID13955-24	12-Oct-20	7035A	-	-	White mastic associated with gray baseboard HA-12. North exterior wall.	HA-13	MASTIC, BASEBOARD	ASBESTOS - PLM	NONE DETECTED	%
184	SID13955-25	12-Oct-20	7035A	-	-	White roof caulk/coating. Located on south end of roof.	HA-14	ROOF COATING	ASBESTOS - PLM	NONE DETECTED	%
184	SID14201-06	13-Jan-21	7035A	-	-	Gray Caulk (AC). Located on the west side exterior of 7035A.	HA-15	CAULKING NOT WINDOWS	ASBESTOS - PLM	NONE DETECTED	%
184	SID13955-26	12-Oct-20	7035A	-	-	Gray caulk. Located around exterior AC unit.	HA-15	CAULKING NOT WINDOWS	ASBESTOS - PLM	NONE DETECTED	%
184	SID13956-01	12-Oct-20	7035B	-	-	Yellow fiberglass batt insulation. South side, ceiling.	HA-02	INSULATION, BATT	ASBESTOS - PLM	NONE DETECTED	%
184	SID13956-02	12-Oct-20	7035B	-	-	Yellow fiberglass batt insulation. Located on the northeast side, ceiling.	HA-02	INSULATION, BATT	ASBESTOS - PLM	NONE DETECTED	%
184	SID13956-07	12-Oct-20	7035B	-	-	Yellow fiberglass batt insulation with aluminum backing. Located on east wall over door.	HA-03	INSULATION, BATT	ASBESTOS - PLM	NONE DETECTED	%
184	SID13956-08	12-Oct-20	7035B	-	-	Yellow fiberglass batt insulation with aluminum backing. Located on west wall over door.	HA-03	INSULATION, BATT	ASBESTOS - PLM	NONE DETECTED	%
184	SID13956-03	12-Oct-20	7035B	-	-	White roof caulking/coating, east side exterior.	HA-14	ROOF COATING	ASBESTOS - PLM	NONE DETECTED	%
184	SID13956-05	12-Oct-20	7035B	-	-	Gray caulk/tape. Base of fan, east side exterior.	HA-16	CAULKING NOT WINDOWS	ASBESTOS - PLM	NONE DETECTED	%
184	SID13956-04	12-Oct-20	7035B	-	-	Gray caulk/tape. Base of fan, east side exterior.	HA-16	CAULKING NOT WINDOWS	ASBESTOS - PLM	NONE DETECTED	%

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184	SID14201-07	13-Jan-21	7035B	-	-	Black Weather Stripping. Located on the southeast corner of 7035B exterior.	HA-17	MISCELLANEOUS	ASBESTOS - PLM	NONE DETECTED	%
184	SID13956-06	12-Oct-20	7035B	-	-	Black weather stripping, east side exterior.	HA-17	MISCELLANEOUS	ASBESTOS - PLM	NONE DETECTED	%
184	SID13939-11	8-Oct-20	7035C	-	-	Yellow fiberglass wall insulation - SE exterior wall.	HA-02	INSULATION, BATT	ASBESTOS - PLM	NONE DETECTED	%
184	SID13939-12	8-Oct-20	7035C	-	-	Yellow fiberglass wall insulation - Above ceiling, center east wall.	HA-02	INSULATION, BATT	ASBESTOS - PLM	NONE DETECTED	%
184	SID13939-15	8-Oct-20	7035C	-	-	White drywall sheets - North wall by door.	HA-08	DRYWALL	ASBESTOS - PLM	NONE DETECTED	%
184	SID13939-17	8-Oct-20	7035C	-	-	White drywall sheets - West wall over door.	HA-08	DRYWALL	ASBESTOS - PLM	NONE DETECTED	%
184	SID13939-16	8-Oct-20	7035C	-	-	Joint compound associated with drywall - North wall by door	HA-11	JOINT COMPOUND	ASBESTOS - PLM	NONE DETECTED	%
184	SID13939-18	8-Oct-20	7035C	-	-	Joint compound associated with drywall - West wall over door.	HA-11	JOINT COMPOUND	ASBESTOS - PLM	NONE DETECTED	%
184	SID13939-01	8-Oct-20	7035C	-	-	12X12 white with black streaks floor tile - North Side of room.	HA-18	FLOOR TILE	ASBESTOS - PLM	NONE DETECTED	%
184	SID13939-09	8-Oct-20	7035C	-	-	12X12 white with black streaks floor tile - East side of room.	HA-18	FLOOR TILE	ASBESTOS - PLM	NONE DETECTED	%
184	SID13939-10	8-Oct-20	7035C	-	-	Gray mastic associated with HA-18 - East side of room.	HA-19	MASTIC, FLOOR TILE	ASBESTOS - PLM	NONE DETECTED	%
184	SID13939-02	8-Oct-20	7035C	-	-	White mastic associated with floor tile HA-18 - North side of room.	HA-19	MASTIC, FLOOR TILE	ASBESTOS - PLM	NONE DETECTED	%
184	SID13939-03	8-Oct-20	7035C	-	-	Black baseboard - North wall.	HA-20	BASEBOARD	ASBESTOS - PLM	NONE DETECTED	%
184	SID13939-05	8-Oct-20	7035C	-	-	Black baseboard - East wall.	HA-20	BASEBOARD	ASBESTOS - PLM	NONE DETECTED	%
184	SID13939-04	8-Oct-20	7035C	-	-	Gray mastic adhesive associated with baseboard - North side of room.	HA-21	MASTIC, BASEBOARD	ASBESTOS - PLM	NONE DETECTED	%
184	SID13939-06	8-Oct-20	7035C	-	-	Gray mastic adhesive associated with baseboard HA-20 - East wall of room.	HA-21	MASTIC, BASEBOARD	ASBESTOS - PLM	NONE DETECTED	%
184	SID13939-07	8-Oct-20	7035C	-	-	Black window caulk - Outside west facing door.	HA-22	WINDOW CAULKING	ASBESTOS - PLM	NONE DETECTED	%
184	SID13939-08	8-Oct-20	7035C	-	-	Black window caulk - Outside west facing door.	HA-22	WINDOW CAULKING	ASBESTOS - PLM	NONE DETECTED	%
184	SID13939-13	8-Oct-20	7035C	-	-	White/Gray corrugated metal roof caulking/coating material - Eastside exterior roof.	HA-23	ROOF COATING	ASBESTOS - PLM	NONE DETECTED	%



ASBESTOS BULK SAMPLE RESULT FOR THE CRSF BUILDING DEMOLITION PROJECT

184	SID13939-14	8-Oct-20	7035C	-	-	White/Gray corrugated metal roof caulking/coating material - West side exterior roof.	HA-23	ROOF COATING	ASBESTOS - PLM	NONE DETECTED	%
184	SID13947-03	12-Oct-20	7035E	-	-	White roof caulking/coating. Located on southwest corner of roof.	-	ROOF COATING	ASBESTOS - PLM	NONE DETECTED	%
184	SID13947-04	12-Oct-20	7035E	-	-	White roof caulking/coating. Located on southeast corner of roof.	-	ROOF COATING	ASBESTOS - PLM	NONE DETECTED	%
184	SID13947-06	12-Oct-20	7035E	-	-	Black weather stripping. Located on southeast exterior.	-	MISCELLANEOUS	ASBESTOS - PLM	NONE DETECTED	%
184	SID13947-07	12-Oct-20	7035E	-	-	Black weather stripping. Located on northeast exterior.	-	MISCELLANEOUS	ASBESTOS - PLM	NONE DETECTED	%
184	SID13947-08	12-Oct-20	7035E	-	-	Gray caulk. Exterior vent, south side.	-	CAULKING NOT WINDOWS	ASBESTOS - PLM	NONE DETECTED	%
184	SID13947-09	12-Oct-20	7035E	-	-	Gray caulk. Exterior vent, south side.	-	CAULKING NOT WINDOWS	ASBESTOS - PLM	NONE DETECTED	%
184	SID13947-10	12-Oct-20	7035E	-	-	White window glazing/caulk. East side door, lower pane.	-	WINDOW GLAZING	ASBESTOS - PLM	NONE DETECTED	%
184	SID13947-11	12-Oct-20	7035E	-	-	White window glazing/caulk. East side door, upper pane.	-	WINDOW GLAZING	ASBESTOS - PLM	NONE DETECTED	%
184	SID13947-12	12-Oct-20	7035E	-	-	Clear caulk. West exterior AC unit.	-	CAULKING NOT WINDOWS	ASBESTOS - PLM	NONE DETECTED	%
184	SID13947-13	12-Oct-20	7035E	-	-	Clear caulk. West exterior AC unit.	-	CAULKING NOT WINDOWS	ASBESTOS - PLM	NONE DETECTED	%
184	SID13947-01	8-Oct-20	7035E	-	-	White/brown fiberglass wall insulation. Located on west wall above ceiling.	-	INSULATION MATERIAL	ASBESTOS - PLM	NONE DETECTED	%
184	SID13947-02	8-Oct-20	7035E	-	-	White/brown fiberglass wall insulation. Located on west wall above ceiling.	Analysis revealed the gray/yellow fibrous insulation layer and the brown/black/silver fibrous wrap layer as both None Detected; with overall results as None Detected.	INSULATION MATERIAL	ASBESTOS - PLM	NONE DETECTED	%
184	SID14202-01	13-Jan-21	7035E	-	-	Tan Foam Filler. Located on the south side exterior of 7035E	HA-03 (E & F)	FILLERS, WALLS	ASBESTOS - PLM	NONE DETECTED	%
184	SID13947-05	12-Oct-20	7035E	-	-	Tan foam insulation. Located on south exterior.	HA-03 (E & F)	FILLERS, WALLS	ASBESTOS - PLM	NONE DETECTED	%
184	SID13944-01	8-Oct-20	7035F	-	-	White metal roof caulking/Coating. Located on the west side exterior.	-	ROOF COATING	ASBESTOS - PLM	NONE DETECTED	%

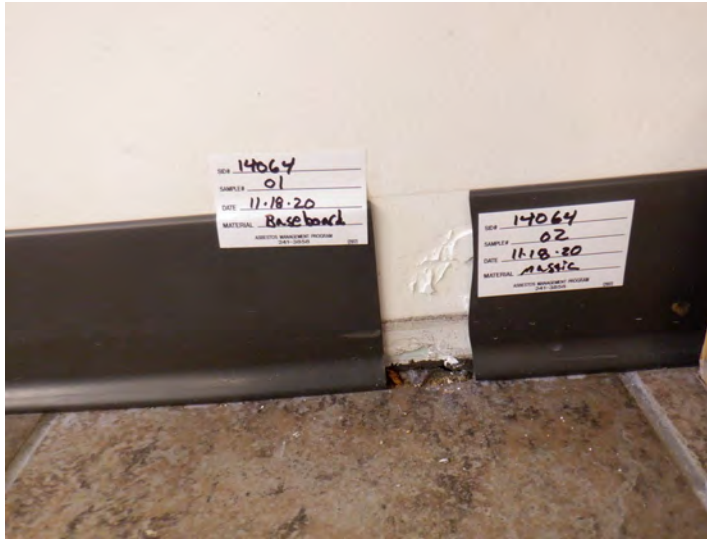
ASBESTOS BULK SAMPLE RESULT FOR THE CRSF BUILDING DEMOLITION PROJECT

184	SID13944-02	8-Oct-20	7035F	-	-	White window glazing. Inside of door.	-	WINDOW GLAZING	ASBESTOS - PLM	NONE DETECTED	%
184	SID13944-03	8-Oct-20	7035F	-	-	White window glazing. Outside of door.	-	WINDOW GLAZING	ASBESTOS - PLM	NONE DETECTED	%

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7033 RENOVATION PROJECT SID 14064

**Date: 11/18/2020**

**Inspector: Carson Vick**

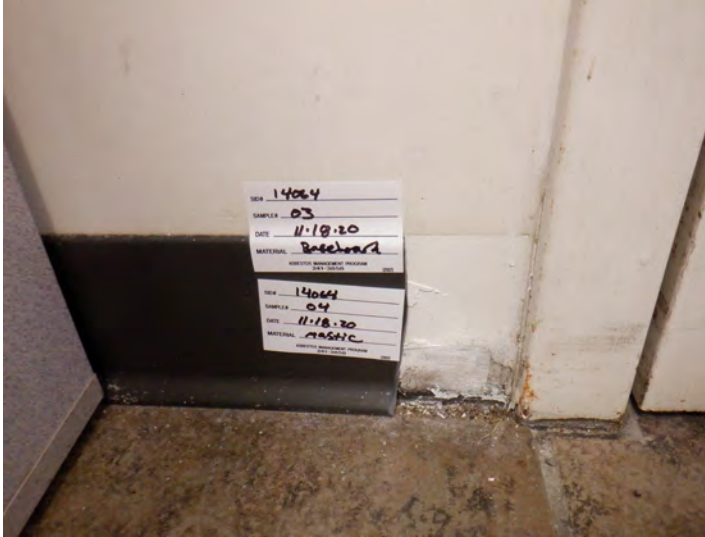


	<b>HA Description</b>	Dark Gray Baseboard White mastic associated with sample 01.
	<b>Sample #</b>	<b>SID14064-01</b> <b>SID14064-02</b>
	<b>Sample Location / Orientation</b>	SID14064-01 – Rm 03 (Kitchen)Center of South Wall SID14064-02 – Rm 03 (Kitchen)Center of South Wall
	<b>Sample/Inspection Results</b>	<b>SID14064-01 – None Detected</b> <b>SID14064-02 – None Detected</b>
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7033 RENOVATION PROJECT SID 14064

**Date: 11/18/2020**

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	<b>HA Description</b>	Dark Gray Baseboard White mastic - associated with sample 03.
	<b>Sample #</b>	<b>SID14064-03</b> <b>SID14064-04</b>
	<b>Sample Location / Orientation</b>	SID14064-03 – Rm 03 East wall beside exterior door SID14064-04 – Rm 03 East wall beside door associated with sample 03.
	<b>Sample/Inspection Results</b>	<b>SID14064-03 – None Detected</b> <b>SID14064-04 – None Detected</b>
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7033 RENOVATION PROJECT SID 14064

**Date: 11/18/2020**

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	<b>HA Description</b>	Drywall
	<b>Sample #</b>	SID14064-05
	<b>Sample Location / Orientation</b>	SID14064-05 – Rm 03 Center of south wall
	<b>Sample/Inspection Results</b>	SID14064-05 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7033 RENOVATION PROJECT SID 14064

**Date: 11/18/2020**

**Inspector: Carson Vick**

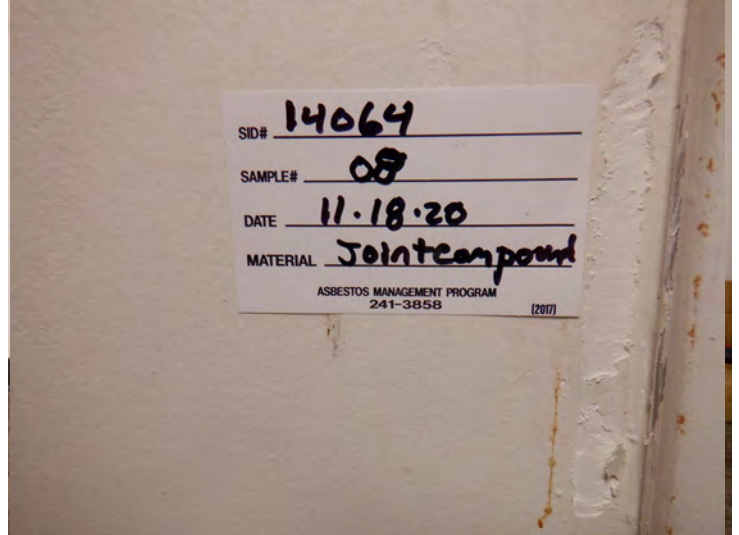
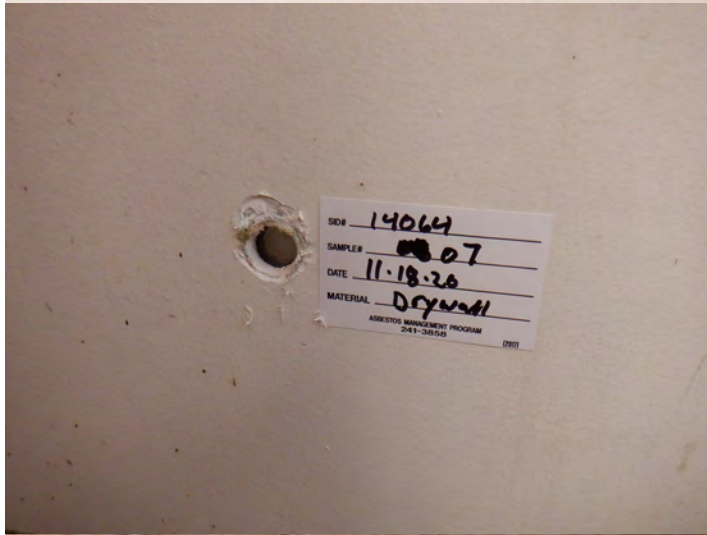


	<b>HA Description</b>	Joint Compound
	<b>Sample #</b>	<b>SID14064-06</b>
	<b>Sample Location / Orientation</b>	SID14064-06 – Rm 03 South wall. SW Corner
	<b>Sample/Inspection Results</b>	<b>SID14064-06 – None Detected</b>
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7033 RENOVATION PROJECT SID 14064

Date: 11/18/2020

Inspector: Carson Vick

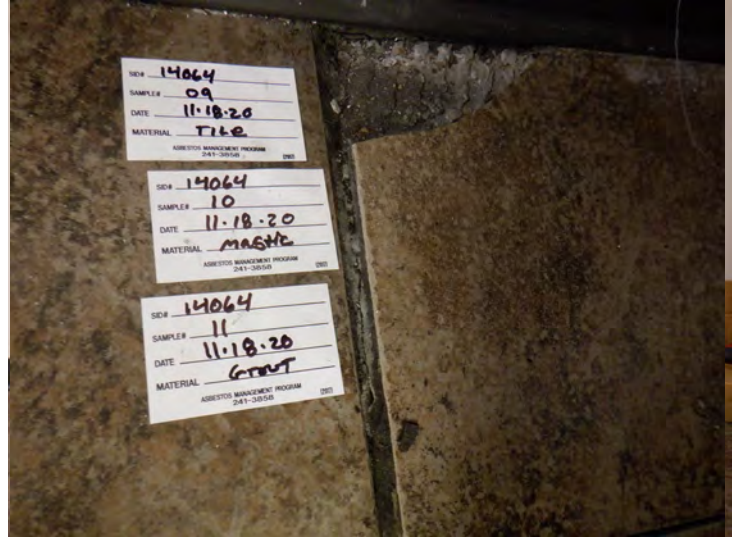


	<b>HA Description</b>	Drywall Joint Compound
	<b>Sample #</b>	<b>SID14064-07</b> <b>SID14064-08</b>
	<b>Sample Location / Orientation</b>	SID14064-07 – Rm 03 East Wall, beside east exterior door SID14064-08 – Rm 03 East wall beside ext door
	<b>Sample/Inspection Results</b>	<b>SID14064-07 – None Detected</b> <b>SID14064-08 – None Detected</b>
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7033 RENOVATION PROJECT SID 14064

**Date: 11/18/2020**

**Inspector: Carson Vick**



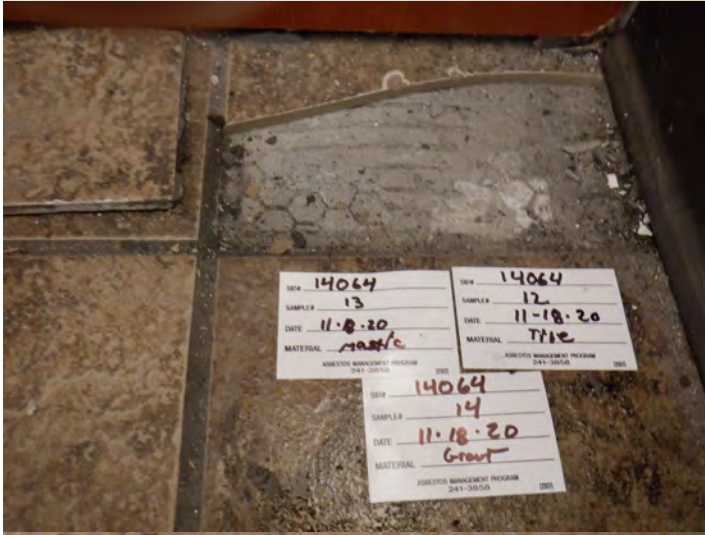
	<b>HA Description</b>	12x12 Tan, Black, Brown Tile Gray mastic Gray Grout
	<b>Sample #</b>	<b>SID14064-09</b> <b>SID14064-10</b> <b>SID14064-11</b>
	<b>Sample Location / Orientation</b>	09-Rm 03 Floor near center of south wall 10-Rm 03 Floor near center of south wall assoc/sample 09 11-Rm 03 Floor near center of south wall assoc/sample 09
	<b>Sample/Inspection Results</b>	<b>SID14064-09 – None Detected</b> <b>SID14064-10 - None Detected</b> <b>SID14064-11 – None Detected</b>



# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7033 RENOVATION PROJECT SID 14064

**Date: 11/18/2020**

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	<b>HA Description</b>	12x12 Tan, Black, Brown Tile Gray mastic Gray Grout
	<b>Sample #</b>	<b>SID14064-12</b> <b>SID14064-13</b> <b>SID14064-14</b>
	<b>Sample Location / Orientation</b>	12-Rm 03 Floor beside east exterior door 13-Rm 03 Floor beside east exterior door assoc/sample 12 14 -Rm 03 Floor beside east exterior door assoc/sample 12
	<b>Sample/Inspection Results</b>	<b>SID14064-12 – None Detected</b> <b>SID14064-13 – None Detected</b> <b>SID14064-14 – None Detected</b>

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7033 RENOVATION PROJECT SID 14064

**Date: 11/18/2020**

**Inspector: Carson Vick**



	<b>HA Description</b>	Black expansion joint
	<b>Sample #</b>	<b>SID14064-15</b>
	<b>Sample Location / Orientation</b>	Rm 01 Between staging area and bucket truck covered area; south side of expansion joint
	<b>Sample/Inspection Results</b>	<b>SID14064-15 – None Detected</b>
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7033 RENOVATION PROJECT SID 14064

**Date: 11/18/2020**

**Inspector: Carson Vick**



	<b>HA Description</b>	Black expansion joint
	<b>Sample #</b>	<b>SID14064-16</b>
	<b>Sample Location / Orientation</b>	Rm 01 Between staging area and bucket truck covered area; North side of expansion joint
	<b>Sample/Inspection Results</b>	<b>SID14064-16 – None Detected</b>
	<b>Recommendation</b>	None

**CHARACTERIZATION PHOTO REPORT FOR BUILDING 7033  
RENOVATION PROJECT  
SID 14064**

**Date: 11/18/2020**

**Inspector: Carson Vick**



	<b>HA Description</b>	White Caulk
	<b>Sample #</b>	<b>SID14064-17</b>
	<b>Sample Location / Orientation</b>	Rm 01 West wall, north of door into rm 02; between slab and corrugated wall. Bucket truck area
	<b>Sample/Inspection Results</b>	<b>SID14064-17 – None Detected</b>
	<b>Recommendation</b>	None

**CHARACTERIZATION PHOTO REPORT FOR BUILDING 7033  
RENOVATION PROJECT  
SID 14064**

**Date: 11/18/2020**

**Inspector: Carson Vick**



	<b>HA Description</b>	White Caulk
	<b>Sample #</b>	<b>SID14064-18</b>
	<b>Sample Location / Orientation</b>	Rm 01, Outside SE corner of rm 02. Between corrugated wall and floor slab on NW corner between staging area and truck bay.
	<b>Sample/Inspection Results</b>	<b>SID14064-18 – None Detected</b>
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7033 RENOVATION PROJECT SID 14064

**Date: 11/18/2020**

**Inspector: Carson Vick**



	<b>HA Description</b>	White Caulk
	<b>Sample #</b>	<b>SID14064-19</b>
	<b>Sample Location / Orientation</b>	South outside wall between metal wall and concrete pad of rm 04 storage area
	<b>Sample/Inspection Results</b>	<b>SID14064-19 – None Detected</b>
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7033 RENOVATION PROJECT SID 14064

**Date: 11/18/2020**

**Inspector: Carson Vick**



	<b>HA Description</b>	White Caulk
	<b>Sample #</b>	SID14064-20
	<b>Sample Location / Orientation</b>	West outside wall between metal wall and concrete pad of rm 04 storage area
	<b>Sample/Inspection Results</b>	SID14064-20 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7033 RENOVATION PROJECT SID 14064

**Date: 11/18/2020**

**Inspector: Carson Vick**



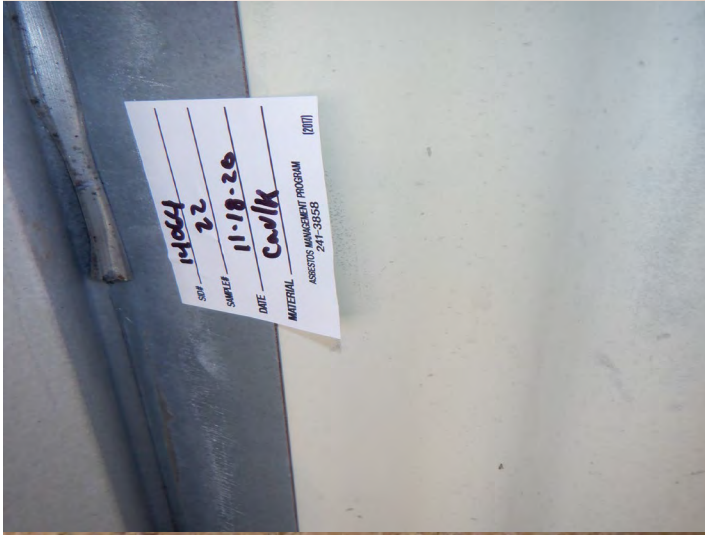
	<b>HA Description</b>	Silver Caulk
	<b>Sample #</b>	<b>SID14064-21</b>
	<b>Sample Location / Orientation</b>	East side outside corner of room 02 and 03. Considered 03 HA area.
	<b>Sample/Inspection Results</b>	<b>SID14064-21 – None Detected</b>
	<b>Recommendation</b>	None



# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7033 RENOVATION PROJECT SID 14064

**Date: 11/18/2020**

**Inspector: Carson Vick**



	<b>HA Description</b>	Silver Caulk
	<b>Sample #</b>	<b>SID14064-22</b>
	<b>Sample Location / Orientation</b>	West side outside corner of room 03 and 05
	<b>Sample/Inspection Results</b>	<b>SID14064-22 – None Detected</b>
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7033 RENOVATION PROJECT SID 14064

**Date: 11/18/2020**

**Inspector: Carson Vick**



	<b>HA Description</b>	2x4 Ceiling Tile, Cellulose
	<b>Sample #</b>	<b>SID14064-23</b>
	<b>Sample Location / Orientation</b>	Kitchen, SE Corner
	<b>Sample/Inspection Results</b>	<b>SID14064-23 – None Detected</b>
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7033 RENOVATION PROJECT SID 14064

**Date: 11/18/2020**

**Inspector: Carson Vick**



	<b>HA Description</b>	2x4 Ceiling Tile, Cellulose
	<b>Sample #</b>	<b>SID14064-24</b>
	<b>Sample Location / Orientation</b>	Kitchen, SW Corner
	<b>Sample/Inspection Results</b>	<b>SID14064-24 – None Detected</b>
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7033 RENOVATION PROJECT SID 14064

**Date: 11/18/2020**

**Inspector: Carson Vick**



	<b>HA Description</b>	Brown Batt Insulation
	<b>Sample #</b>	SID14064-25
	<b>Sample Location / Orientation</b>	Kitchen, Inside south wall above ceiling in SW corner
	<b>Sample/Inspection Results</b>	SID14064-25 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7033 RENOVATION PROJECT SID 14064

**Date: 11/18/2020**

**Inspector: Carson Vick**



	<b>HA Description</b>	Brown Batt Insulation
	<b>Sample #</b>	SID14064-26
	<b>Sample Location / Orientation</b>	Kitchen, Inside south wall above ceiling in SW corner
	<b>Sample/Inspection Results</b>	SID14064-26 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7033 RENOVATION PROJECT SID 14064

**Date: 11/18/2020**

**Inspector: Carson Vick**



	<b>HA Description</b>	Purple "Greenguard" insulation board
	<b>Sample #</b>	SID14064-27
	<b>Sample Location / Orientation</b>	Kitchen, Inside south wall above ceiling in SW corner
	<b>Sample/Inspection Results</b>	SID14064-27 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7033 RENOVATION PROJECT SID 14064

**Date: 11/18/2020**

**Inspector: Carson Vick**

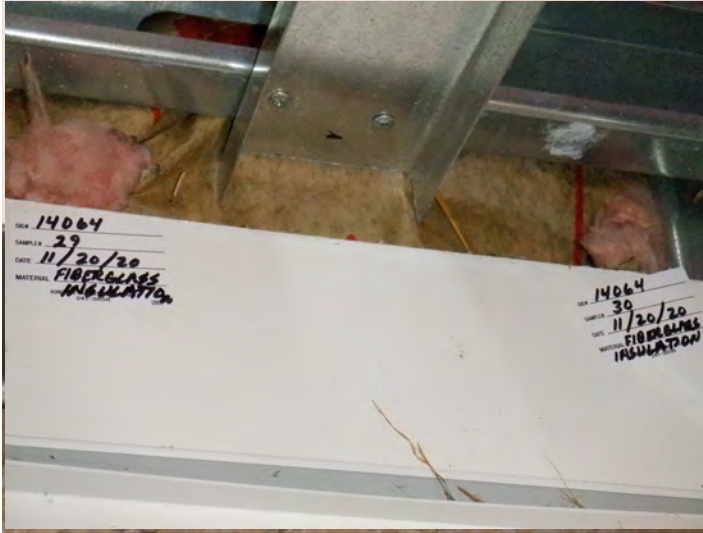


	<b>HA Description</b>	Purple "Greenguard" insulation board
	<b>Sample #</b>	SID14064-28
	<b>Sample Location / Orientation</b>	Kitchen, Inside south wall above ceiling in SW corner
	<b>Sample/Inspection Results</b>	SID14064-28 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7033 RENOVATION PROJECT SID 14064

**Date: 11/18/2020**

**Inspector: Carson Vick**



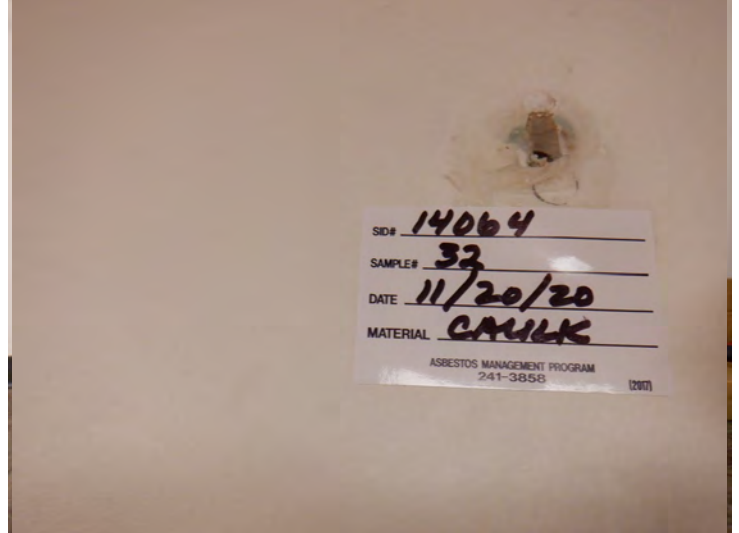
	<b>HA Description</b>	Pink Fiberglass Batt Insulation
	<b>Sample #</b>	SID14064-29 SID14064-30
	<b>Sample Location / Orientation</b>	Kitchen, Inside south wall above ceiling in SW corner
	<b>Sample/Inspection Results</b>	<b>SID14064-29 – None Detected</b> <b>SID14064-30 – None Detected</b> Analysis revealed the pink fibrous layer as 97% mineral wool and the brown/black wrap layer as 80% cellulose in both samples.
	<b>Recommendation</b>	None



# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7033 RENOVATION PROJECT SID 14064

Date: 11/18/2020

Inspector: Carson Vick

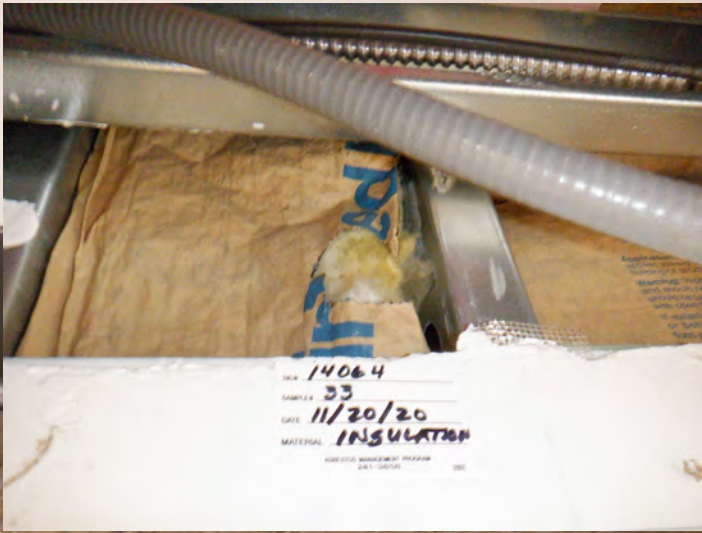


	<b>HA Description</b>	Clear Caulk
	<b>Sample #</b>	SID14064-31 SID14064-32
	<b>Sample Location / Orientation</b>	Kitchen, East wall, north of door
	<b>Sample/Inspection Results</b>	SID14064-31 – None Detected SID14064-32 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7033 RENOVATION PROJECT SID 14064

**Date: 11/18/2020**

**Inspector: Carson Vick**



<b>HA Description</b>	SID14064-33 – Yellow Fiberglass Batt Insulation SID14064-34 – Yellow Fiberglass Batt Insulation
<b>Sample #</b>	SID14064-33 SID14064-34
<b>Sample Location / Orientation</b>	East Wall above ceiling and exterior door
<b>Sample/Inspection Results</b>	<p><b>SID14064-33 – None Detected</b></p> <p><b>SID14064-34 – None Detected</b></p> <p>Analysis revealed the yellow fibrous layer as 99% glass and the brown/black/blue wrap layer as 80% cellulose in both samples.</p>
<b>Recommendation</b>	None

## Sample Survey Profile Report

### Survey Profile Report - Survey Coversheet

Survey ID: **SID14064**  
 Status: **OPEN**  
 Survey Title: **ASBESTOS BULK\_7033\_FIRST\_FOR  
 CRSF DEMO  
 11/18/2020\_11/19/20\_11/20/20**  
 Survey Date: **18-NOV-2020**  
 Location: **7033**  
 IH-Safety officer: **HANCOCK,JULIA (00034540)**  
 Primary Sampler: **VICK,CARSON (03026158)**

### Request Description

#### Description of and Purpose for Sampling:

Sampling for Bldg 7033 for demolition is support for the CRSF demo. Results to Nilay Jhaveri, Wendell Ely and Aaron Hicks.

Inspection and sampling of 7033. See attached sampling plans (one word file and one pdf file) for additional information, photos, and listing of suspect and non-suspect materials. Contact information listed on sampling plan. Inspection form is required to document NON\_SUSPECT material locations by walls, ceilings, and floors. Samples will be notated on the survey. See specific instructions on sample plan document.

#### Description of Sample Equipment and Placement While Sampling:

See individual samples and photo file

Sample Rationale: **FACILITY CHARACTERIZATION**

### Analytical Method

Sampling Matrix/Device: BULK MATERIAL  
 Sampling Method: ASBESTOS/IOP 01-12.01\_BULK  
 Description of Analysis Requested (for lab personnel)

Asbestos - PLM

### Survey Discussion

#### Discussion of Results, Expectations and History

Sample results for the baseboard and mastic, ceramic tile, mastic and grout, drywall, joint compound, insulation materials, expansion joints, caulking, and ceiling tiles were all None Detected; therefore, no asbestos was seen during analysis.

See SID14084, 14099, 14167, and 14208 for complete characterization results.

Inspection revealed all rooms contained a corrugated metal roof and corrugated metal walls and all rooms contained concrete slabs either visible or beneath ceramic tile.

Room 2 north wall was wood, fiberglass behind external walls. Above ceiling was not inspected. The bucket truck hibay staging area had fiberglass behind walls that share inside rooms. Expansion joints was present and sampled. Room 3 had drywall which was sampled. Room 4, the south side storage area had expansion joints consisting of cutouts with no suspect materials to sample in the joints. Room 5, the locker/shower change room area, was added on in 2012. The north, south, and west walls were behind drywall and a metal ceiling was above the showers. Yellow fiberglass was seen in

external walls and historic walls of hallway 02B area.

#### Recommendations to Workers and Management

No asbestos on this survey however, see SID14099 for asbestos wall filler materials; black tar and pink filler.

#### Survey Attachments

	Description of Attachment	Filename When Uploaded
<a href="#">View/Download</a>	Sampling Request SID XXX Bldg 7033 for CRSF Demo.docx	Sampling Request SID XXX Bldg 7033 for CRSF Demo.docx
<a href="#">View/Download</a>	Bldg 7033 Sample Plan.docx	Bldg 7033 Sample Plan.docx
<a href="#">View/Download</a>	Bldg 7033 Sample Plan 2.pdf	Bldg 7033 Sample Plan 2.pdf
<a href="#">View/Download</a>	SID14064 Sample Results	HancockSID14064.pdf
<a href="#">View/Download</a>	SID14064 field notes.pdf	SID14064 field notes.pdf
<a href="#">View/Download</a>	7033 Building Remodel HA Map.pdf	7033 Building Remodel HA Map.pdf
<a href="#">View/Download</a>	SID14064 Characterization Photo File FINAL	SID14064 Characterization Photo File_Bldg 7033 FINAL.pdf

#### Tracking

Sample Date (or start) **18-NOV-2020**

#### Sample results list

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
<a href="#">SID14064-01</a>	18-NOV-2020	BULK SAMPLING	BASEBOARD		7033	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID14064-02</a>	18-NOV-2020	BULK SAMPLING	MASTIC, BASEBOARD		7033	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID14064-03</a>	18-NOV-2020	BULK SAMPLING	BASEBOARD		7033	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID14064-04</a>	18-NOV-2020	BULK SAMPLING	MASTIC, BASEBOARD		7033	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID14064-05</a>	18-NOV-2020	BULK SAMPLING	DRYWALL		7033	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID14064-06</a>	18-NOV-2020	BULK SAMPLING	JOINT COMPOUND		7033	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID14064-07</a>	18-NOV-2020	BULK SAMPLING	DRYWALL		7033	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID14064-08</a>	18-NOV-2020	BULK SAMPLING	JOINT COMPOUND		7033	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID14064-09</a>	18-NOV-2020	BULK SAMPLING	TILE, CERAMIC		7033	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID14064-10</a>	18-NOV-2020	BULK SAMPLING	MASTIC, FLOOR TILE		7033	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID14064-11</a>	18-NOV-2020	BULK SAMPLING	GROUT, TILE		7033	ASBESTOS - PLM	NONEDETECT	PERC	
<a href="#">SID14064-12</a>	18-NOV-2020	BULK SAMPLING	TILE, CERAMIC		7033	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID14064-13</a>	18-NOV-2020	BULK SAMPLING	MASTIC, FLOOR TILE		7033	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID14064-14</a>	18-NOV-2020	BULK SAMPLING	GROUT, TILE		7033	ASBESTOS - PLM	NONEDETECT	PERC	
<a href="#">SID14064-15</a>	18-NOV-2020	BULK SAMPLING	EXPANSION JOINT		7033	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID14064-16</a>	18-NOV-2020	BULK SAMPLING	EXPANSION JOINT		7033	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID14064-17</a>	19-NOV-2020	BULK SAMPLING	CAULKING NOT WINDOWS		7033	ASBESTOS - PLM	NONEDETECT	PERC	
<a href="#">SID14064-18</a>	19-NOV-2020	BULK SAMPLING	CAULKING NOT WINDOWS		7033	ASBESTOS - PLM	NONEDETECT	PERC	
<a href="#">SID14064-19</a>	19-NOV-2020	BULK SAMPLING	CAULKING NOT WINDOWS		7033	ASBESTOS - PLM	NONEDETECT	PERC	
<a href="#">SID14064-20</a>	19-NOV-2020	BULK SAMPLING	CAULKING NOT WINDOWS		7033	ASBESTOS - PLM	NONEDETECT	PERC	

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
SID14064-21	19-NOV-2020	BULK SAMPLING	CAULKING NOT WINDOWS		7033	ASBESTOS - PLM	NONEDETECT	PERC	
SID14064-22	19-NOV-2020	BULK SAMPLING	CAULKING NOT WINDOWS		7033	ASBESTOS - PLM	NONEDETECT	PERC	
SID14064-23	20-NOV-2020	BULK SAMPLING	TILE, CELLULOSE		7033	ASBESTOS - PLM	NONEDETECT	PERC	1
SID14064-24	20-NOV-2020	BULK SAMPLING	TILE, CELLULOSE		7033	ASBESTOS - PLM	NONEDETECT	PERC	1
SID14064-25	20-NOV-2020	BULK SAMPLING	INSULATION, BATT		7033	ASBESTOS - PLM	NONEDETECT	PERC	1
SID14064-26	20-NOV-2020	BULK SAMPLING	INSULATION, BATT		7033	ASBESTOS - PLM	NONEDETECT	PERC	1
SID14064-27	20-NOV-2020	BULK SAMPLING	INSULATION, BOARD		7033	ASBESTOS - PLM	NONEDETECT	PERC	1
SID14064-28	20-NOV-2020	BULK SAMPLING	INSULATION, BOARD		7033	ASBESTOS - PLM	NONEDETECT	PERC	1
SID14064-29	20-NOV-2020	BULK SAMPLING	INSULATION, BATT		7033	ASBESTOS - PLM	NONEDETECT	PERC	1
SID14064-30	20-NOV-2020	BULK SAMPLING	INSULATION, BATT		7033	ASBESTOS - PLM	NONEDETECT	PERC	1
SID14064-31	20-NOV-2020	BULK SAMPLING	CAULKING NOT WINDOWS		7033	ASBESTOS - PLM	NONEDETECT	PERC	
SID14064-32	20-NOV-2020	BULK SAMPLING	CAULKING NOT WINDOWS		7033	ASBESTOS - PLM	NONEDETECT	PERC	
SID14064-33	20-NOV-2020	BULK SAMPLING	INSULATION, BATT		7033	ASBESTOS - PLM	NONEDETECT	PERC	1
SID14064-34	20-NOV-2020	BULK SAMPLING	INSULATION, BATT		7033	ASBESTOS - PLM	NONEDETECT	PERC	1

## SAMPLE DETAIL

Sample ID: SID14064-01 Survey ID: SID14064

Sample ID: **SID14064-01**Survey ID: **SID14064**Sample Date: **18-NOV-2020**Assessment: **BULK SAMPLING**Result Type: **BASEBOARD**Location: **7033**

## Sample Detail

Dark Gray Baseboard - Kitchen (Rm 03), Center of south wall

## Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL**

## Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID14064-02 Survey ID: SID14064

Sample ID: **SID14064-02**Survey ID: **SID14064**Sample Date: **18-NOV-2020**Assessment: **BULK SAMPLING**Result Type: **MASTIC, BASEBOARD**Location: **7033**

## Sample Detail

White mastic - Kitchen (Rm 03), Center of south wall associated with sample 01.

## Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID14064-03 Survey ID: SID14064

Sample ID: **SID14064-03**Survey ID: **SID14064**Sample Date: **18-NOV-2020**Assessment: **BULK SAMPLING**Result Type: **BASEBOARD**Location: **7033****Sample Detail**

Dark Gray Baseboard - Kitchen (Rm 03), East wall beside exterior door.

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID14064-04 Survey ID: SID14064

Sample ID: **SID14064-04**Survey ID: **SID14064**Sample Date: **18-NOV-2020**Assessment: **BULK SAMPLING**Result Type: **MASTIC, BASEBOARD**Location: **7033****Sample Detail**

White mastic - Kitchen (Rm 03), East wall beside door associated with sample 03.

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID14064-05 Survey ID: SID14064

Sample ID: **SID14064-05**Survey ID: **SID14064**Sample Date: **18-NOV-2020**Assessment: **BULK SAMPLING**Result Type: **DRYWALL**Location: **7033****Sample Detail**

Drywall - Kitchen (Rm 03), Center of south wall .

#### Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**

Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

#### Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

#### SAMPLE DETAIL

Sample ID: SID14064-06 Survey ID: SID14064

Sample ID: **SID14064-06**

Survey ID: **SID14064**

Sample Date: **18-NOV-2020**

Assessment: **BULK SAMPLING**

Result Type: **JOINT COMPOUND**

Location: **7033**

#### Sample Detail

Joint compound - Kitchen (Rm 03), South wall. SW corner.

#### Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**

Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

#### Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

#### SAMPLE DETAIL

Sample ID: SID14064-07 Survey ID: SID14064

Sample ID: **SID14064-07**

Survey ID: **SID14064**

Sample Date: **18-NOV-2020**

Assessment: **BULK SAMPLING**

Result Type: **DRYWALL**

Location: **7033**

#### Sample Detail

Drywall - Kitchen (Rm 03), East wall, beside east exterior door.

#### Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**

Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

#### Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

#### SAMPLE DETAIL

Sample ID: SID14064-08 Survey ID: SID14064

Sample ID: **SID14064-08**

Survey ID: **SID14064**  
 Sample Date: **18-NOV-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **JOINT COMPOUND**  
 Location: **7033**

**Sample Detail**

Joint compound - Kitchen (Rm 03), East wall beside exterior door.

**Sort Groups**

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**  
 Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**  
 Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: **SID14064-09** Survey ID: **SID14064**

Sample ID: **SID14064-09**  
 Survey ID: **SID14064**  
 Sample Date: **18-NOV-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **TILE, CERAMIC**  
 Location: **7033**

**Sample Detail**

12X12 Tan, brown, black tile - Kitchen (Rm 03) Floor near center of south wall.

**Sort Groups**

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**  
 Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**  
 Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: **SID14064-10** Survey ID: **SID14064**

Sample ID: **SID14064-10**  
 Survey ID: **SID14064**  
 Sample Date: **18-NOV-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **MASTIC, FLOOR TILE**  
 Location: **7033**

**Sample Detail**

Gray mastic - Kitchen (Rm 03) Floor near center of south wall associated with sample 09.

**Sort Groups**

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**  
 Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**  
 Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**



Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID14064-11 Survey ID: SID14064

Sample ID: **SID14064-11**  
 Survey ID: **SID14064**  
 Sample Date: **18-NOV-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **GROUT, TILE**  
 Location: **7033**

## Sample Detail

Gray grout - Kitchen (Rm 03) Floor near center of south wall associated with sample 09.

## Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**  
 Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**  
 Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

## Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC			

## SAMPLE DETAIL

Sample ID: SID14064-12 Survey ID: SID14064

Sample ID: **SID14064-12**  
 Survey ID: **SID14064**  
 Sample Date: **18-NOV-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **TILE, CERAMIC**  
 Location: **7033**

## Sample Detail

12X12 Tan, brown, black tile - Kitchen (Rm 03) Floor beside east exterior door.

## Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**  
 Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**  
 Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

## Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID14064-13 Survey ID: SID14064

Sample ID: **SID14064-13**  
 Survey ID: **SID14064**  
 Sample Date: **18-NOV-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **MASTIC, FLOOR TILE**  
 Location: **7033**

## Sample Detail

Gray mastic - Kitchen (Rm 03) Floor beside east exterior door associated with sample 12.

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: **SID14064-14** Survey ID: **SID14064**Sample ID: **SID14064-14**Survey ID: **SID14064**Sample Date: **18-NOV-2020**Assessment: **BULK SAMPLING**Result Type: **GROUT, TILE**Location: **7033****Sample Detail**

Gray grout - Kitchen (Rm 03) Floor beside east exterior door associated with sample 12.

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC			

## SAMPLE DETAIL

Sample ID: **SID14064-15** Survey ID: **SID14064**Sample ID: **SID14064-15**Survey ID: **SID14064**Sample Date: **18-NOV-2020**Assessment: **BULK SAMPLING**Result Type: **EXPANSION JOINT**Location: **7033****Sample Detail**

Black Expansion Joint - Rm 01, Between staging area and bucket truck covered area; South side of expansion joint.

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: **SID14064-16** Survey ID: **SID14064**Sample ID: **SID14064-16**Survey ID: **SID14064**Sample Date: **18-NOV-2020**Assessment: **BULK SAMPLING**

Result Type: **EXPANSION JOINT**Location: **7033****Sample Detail**

Black Expansion Joint - Rm 01, Between staging area and bucket truck covered area; North side of expansion joint.

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: **SID14064-17** Survey ID: **SID14064**Sample ID: **SID14064-17**Survey ID: **SID14064**Sample Date: **19-NOV-2020**Assessment: **BULK SAMPLING**Result Type: **CAULKING NOT WINDOWS**Location: **7033****Sample Detail**

White caulk - Rm 01, West wall, north of door into Rm 02; Between slab and corrugated wall. Bucket truck area.

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC			

## SAMPLE DETAIL

Sample ID: **SID14064-18** Survey ID: **SID14064**Sample ID: **SID14064-18**Survey ID: **SID14064**Sample Date: **19-NOV-2020**Assessment: **BULK SAMPLING**Result Type: **CAULKING NOT WINDOWS**Location: **7033****Sample Detail**

White caulk - Rm 01, Between south corrugated wall and floor slab on SE corner. Staging area.

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC			

## SAMPLE DETAIL

Sample ID: **SID14064-19**  
 Survey ID: **SID14064**  
 Sample Date: **19-NOV-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **CAULKING NOT WINDOWS**  
 Location: **7033**

#### Sample Detail

White caulk - South outside wall between metal wall and concrete pad of Rm 04 storage area.

#### Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**  
 Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**  
 Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

#### Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC			

#### SAMPLE DETAIL

Sample ID: **SID14064-20** Survey ID: **SID14064**

Sample ID: **SID14064-20**  
 Survey ID: **SID14064**  
 Sample Date: **19-NOV-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **CAULKING NOT WINDOWS**  
 Location: **7033**

#### Sample Detail

White caulk - West outside wall between metal wall and concrete pad of Rm 04 storage area.

#### Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**  
 Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**  
 Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

#### Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC			

#### SAMPLE DETAIL

Sample ID: **SID14064-21** Survey ID: **SID14064**

Sample ID: **SID14064-21**  
 Survey ID: **SID14064**  
 Sample Date: **19-NOV-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **CAULKING NOT WINDOWS**  
 Location: **7033**

#### Sample Detail

Silver caulk - East side outside corner of room 02 and 03.

#### Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**  
 Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**  
 Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC			

## SAMPLE DETAIL

Sample ID: SID14064-22 Survey ID: SID14064

Sample ID: **SID14064-22**Survey ID: **SID14064**Sample Date: **19-NOV-2020**Assessment: **BULK SAMPLING**Result Type: **CAULKING NOT WINDOWS**Location: **7033****Sample Detail**

Silver caulk - West side outside corner of room 03 and 05.

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC			

## SAMPLE DETAIL

Sample ID: SID14064-23 Survey ID: SID14064

Sample ID: **SID14064-23**Survey ID: **SID14064**Sample Date: **20-NOV-2020**Assessment: **BULK SAMPLING**Result Type: **TILE, CELLULOSE**Location: **7033****Sample Detail**

2X4 Ceiling Tile, Cellulose, Spe - Kitchen, SE corner.

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID14064-24 Survey ID: SID14064

Sample ID: **SID14064-24**Survey ID: **SID14064**Sample Date: **20-NOV-2020**Assessment: **BULK SAMPLING**Result Type: **TILE, CELLULOSE**Location: **7033****Sample Detail**

2X4 Ceiling Tile, Cellulose - Kitchen, SW corner.

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: **SID14064-25** Survey ID: **SID14064**Sample ID: **SID14064-25**Survey ID: **SID14064**Sample Date: **20-NOV-2020**Assessment: **BULK SAMPLING**Result Type: **INSULATION, BATT**Location: **7033****Sample Detail**

Brown insulation - Kitchen, Inside south wall above ceiling in SW corner.

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: **SID14064-26** Survey ID: **SID14064**Sample ID: **SID14064-26**Survey ID: **SID14064**Sample Date: **20-NOV-2020**Assessment: **BULK SAMPLING**Result Type: **INSULATION, BATT**Location: **7033****Sample Detail**

Brown insulation - Kitchen, Inside south wall above ceiling in SW corner.

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: **SID14064-27** Survey ID: **SID14064**Sample ID: **SID14064-27**Survey ID: **SID14064**Sample Date: **20-NOV-2020**Assessment: **BULK SAMPLING**

Result Type: **INSULATION, BOARD**Location: **7033****Sample Detail**

Purple "Greenguard" insulation board - Kitchen, Inside south wall above ceiling in SW corner.

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: **SID14064-28** Survey ID: **SID14064**Sample ID: **SID14064-28**Survey ID: **SID14064**Sample Date: **20-NOV-2020**Assessment: **BULK SAMPLING**Result Type: **INSULATION, BOARD**Location: **7033****Sample Detail**

Purple "Greenguard" insulation board - Kitchen, Inside south wall above ceiling in SW corner.

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: **SID14064-29** Survey ID: **SID14064**Sample ID: **SID14064-29**Survey ID: **SID14064**Sample Date: **20-NOV-2020**Assessment: **BULK SAMPLING**Result Type: **INSULATION, BATT**Location: **7033****Sample Detail**

Pink fiberglass insulation - Kitchen, Inside south wall above ceiling in SW corner.

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: **SID14064-30**  
 Survey ID: **SID14064**  
 Sample Date: **20-NOV-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **INSULATION, BATT**  
 Location: **7033**

#### Sample Detail

Pink fiberglass insulation - Kitchen, Inside south wall above ceiling in SW corner.

#### Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**  
 Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**  
 Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

#### Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

#### SAMPLE DETAIL

Sample ID: **SID14064-31** Survey ID: **SID14064**

Sample ID: **SID14064-31**  
 Survey ID: **SID14064**  
 Sample Date: **20-NOV-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **CAULKING NOT WINDOWS**  
 Location: **7033**

#### Sample Detail

Clear caulk - Kitchen, East wall, north of door

#### Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**  
 Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**  
 Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

#### Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC			

#### SAMPLE DETAIL

Sample ID: **SID14064-32** Survey ID: **SID14064**

Sample ID: **SID14064-32**  
 Survey ID: **SID14064**  
 Sample Date: **20-NOV-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **CAULKING NOT WINDOWS**  
 Location: **7033**

#### Sample Detail

Clear caulk - Kitchen, East wall, north of door

#### Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**  
 Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**  
 Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**



Sample Results								
Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC			

## SAMPLE DETAIL

Sample ID: SID14064-33 Survey ID: SID14064

Sample ID: **SID14064-33**Survey ID: **SID14064**Sample Date: **20-NOV-2020**Assessment: **BULK SAMPLING**Result Type: **INSULATION, BATT**Location: **7033**

## Sample Detail

Yellow fiberglass - East wall above ceiling and exterior door.

## Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL**

Sample Results								
Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID14064-34 Survey ID: SID14064

Sample ID: **SID14064-34**Survey ID: **SID14064**Sample Date: **20-NOV-2020**Assessment: **BULK SAMPLING**Result Type: **INSULATION, BATT**Location: **7033**

## Sample Detail

Yellow fiberglass - East wall above ceiling and exterior door.

## Sort Groups

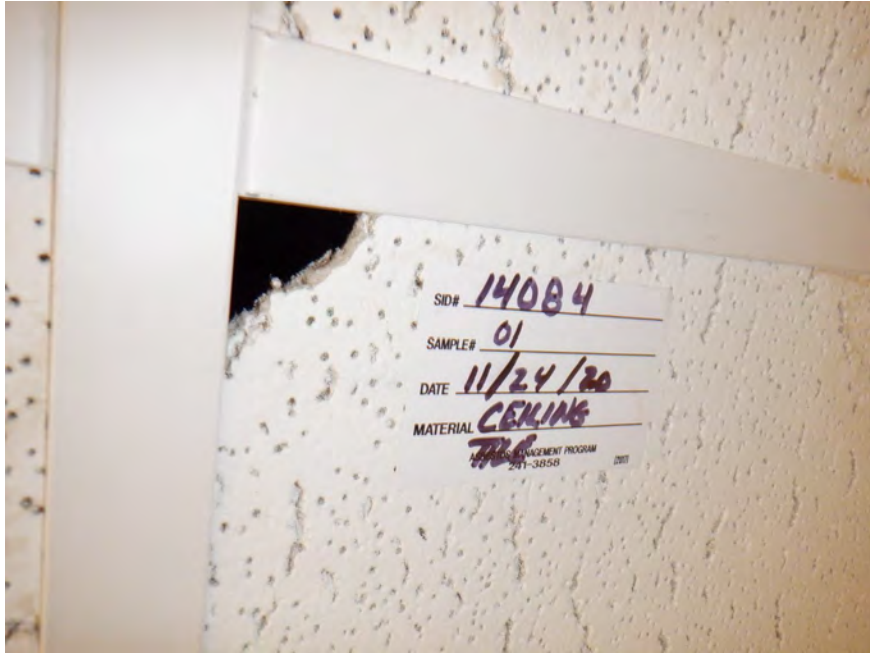
Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL**

Sample Results								
Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

**CHARACTERIZATION PHOTO REPORT  
FOR BUILDING 7033  
SID 14084**

**Date: 11/24/2020**

**Photographer: Carson Vick**

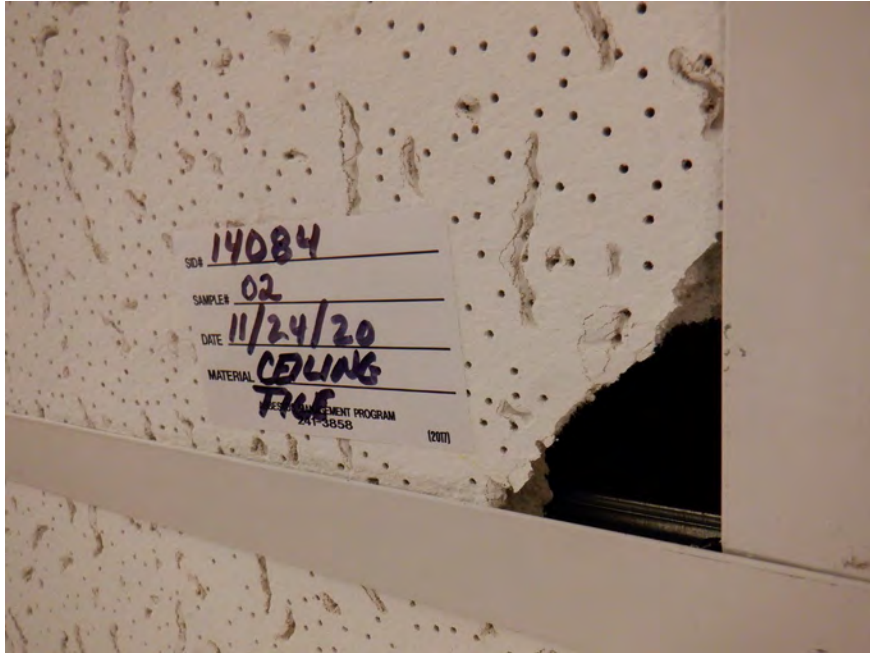


	<b>HA Description</b>	<b>2 FT x 4 FT White Cellulose Tile, Fissured</b>
	<b>Sample #</b>	<b>SID14084-01</b>
	<b>Sample Location / Orientation</b>	<b>South Side Ceiling of Room 05 (Change Room)</b>
	<b>Sample/Inspection Results</b>	<b>SID14084-01 – None Detected</b>
	<b>Recommendation</b>	<b>None</b>

**CHARACTERIZATION PHOTO REPORT  
FOR BUILDING 7033  
SID 14084**

**Date: 11/24/2020**

**Photographer: Carson Vick**

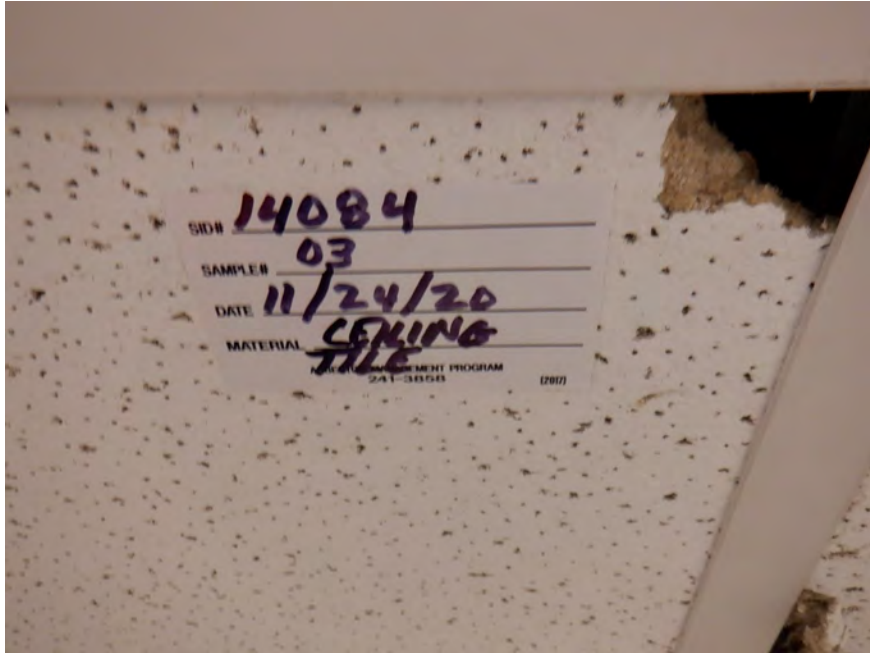


	<b>HA Description</b>	<b>2 FT x 4 FT White Cellulose Tile, Fissured</b>
	<b>Sample #</b>	<b>SID14084-02</b>
	<b>Sample Location / Orientation</b>	<b>North Side Ceiling of Room 05 (Change Room)</b>
	<b>Sample/Inspection Results</b>	<b>SID14084-02 – None Detected</b>
	<b>Recommendation</b>	<b>None</b>

**CHARACTERIZATION PHOTO REPORT  
FOR BUILDING 7033  
SID 14084**

**Date: 11/24/2020**

**Photographer: Carson Vick**

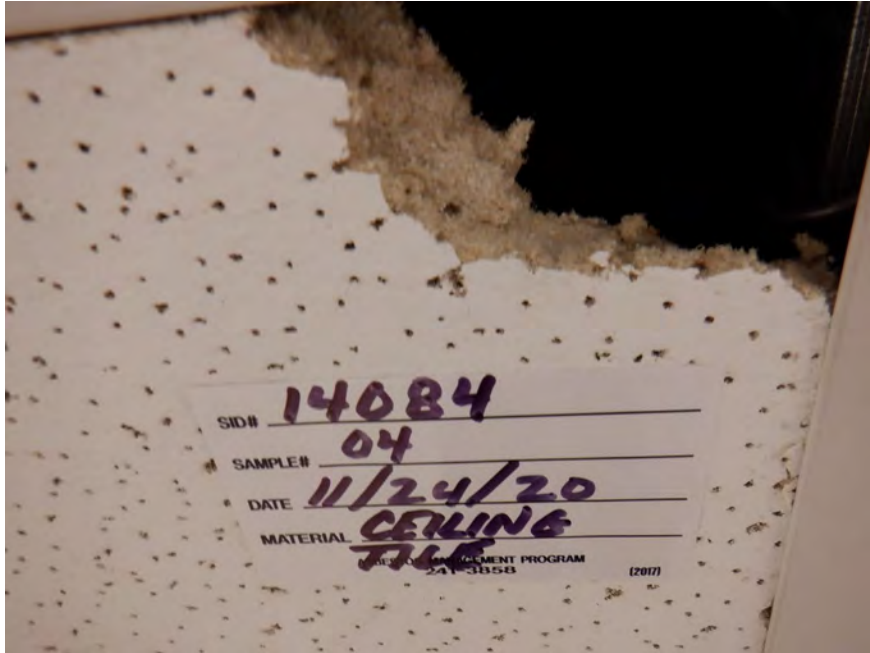


	<b>HA Description</b>	<b>2 FT x 4 FT White Cellulose Tile, Fissured</b>
	<b>Sample #</b>	<b>SID14084-03</b>
	<b>Sample Location / Orientation</b>	<b>North Side Middle Ceiling of Room 02B (Hallway)</b>
	<b>Sample/Inspection Results</b>	<b>SID14084-03 – None Detected</b>
	<b>Recommendation</b>	<b>None</b>

**CHARACTERIZATION PHOTO REPORT  
FOR BUILDING 7033  
SID 14084**

**Date: 11/24/2020**

**Photographer: Carson Vick**

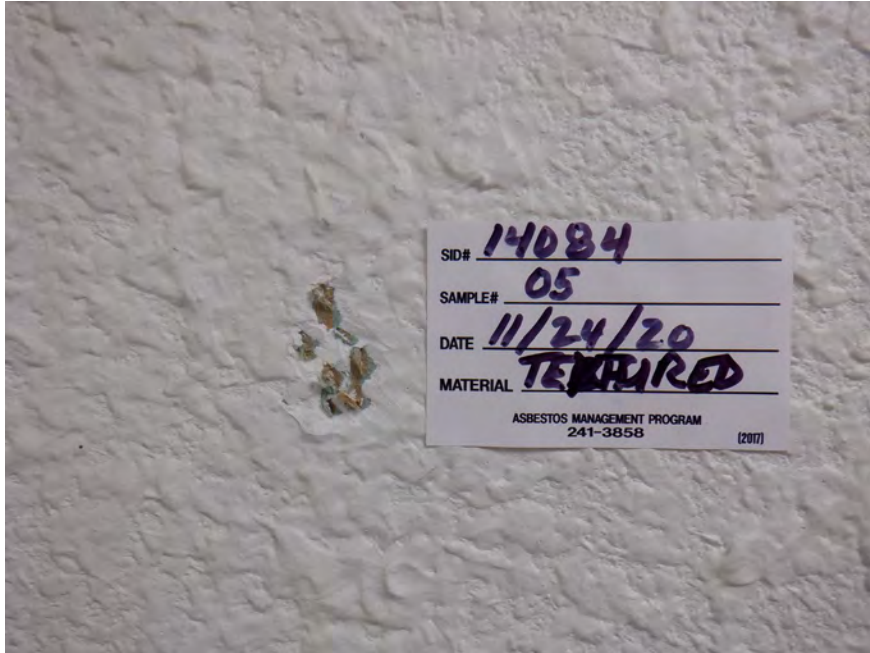


	<b>HA Description</b>	<b>2 FT x 4 FT White Cellulose Tile, Fissured</b>
	<b>Sample #</b>	<b>SID14084-04</b>
	<b>Sample Location / Orientation</b>	<b>North Side West Ceiling of Room 02B (Hallway)</b>
	<b>Sample/Inspection Results</b>	<b>SID14084-04 – None Detected</b>
	<b>Recommendation</b>	<b>None</b>

**CHARACTERIZATION PHOTO REPORT  
FOR BUILDING 7033  
SID 14084**

**Date: 11/24/2020**

**Photographer: Carson Vick**

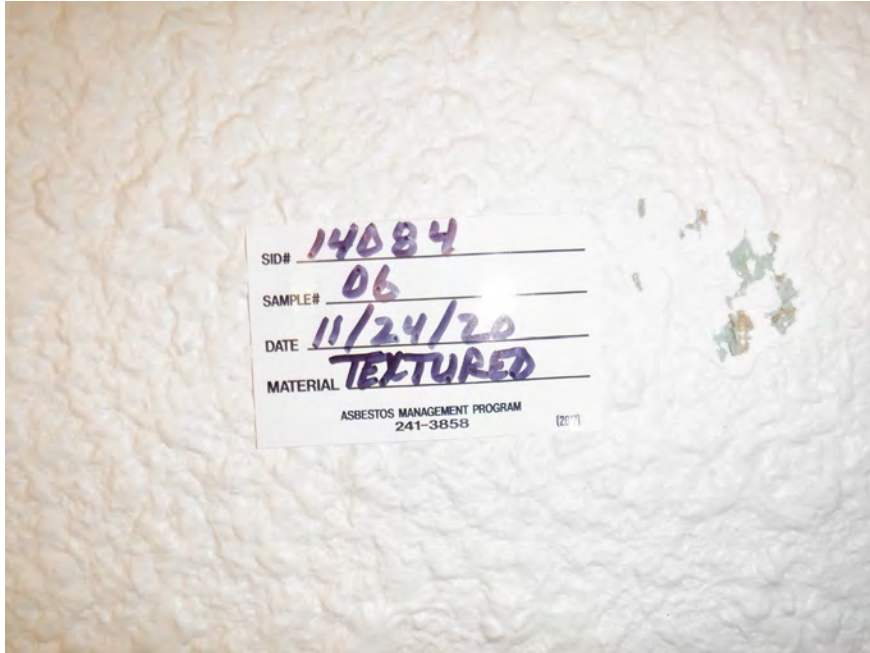


	<b>HA Description</b>	<b>White Textured Wall Coating Spray Applied</b>
	<b>Sample #</b>	<b>SID14084-05</b>
	<b>Sample Location / Orientation</b>	<b>West Wall, South Side Beside Door of Room 02B (Hallway)</b>
	<b>Sample/Inspection Results</b>	<b>SID14084-05 – None Detected</b>
	<b>Recommendation</b>	<b>None</b>

**CHARACTERIZATION PHOTO REPORT  
FOR BUILDING 7033  
SID 14084**

**Date: 11/24/2020**

**Photographer: Carson Vick**



	<b>HA Description</b>	<b>White Textured Wall Coating Spray Applied</b>
	<b>Sample #</b>	<b>SID14084-06</b>
	<b>Sample Location / Orientation</b>	<b>South Wall, West of Exterior Door of Room 05 (Change Room).</b>
	<b>Sample/Inspection Results</b>	<b>SID14084-06 – None Detected</b>
	<b>Recommendation</b>	<b>None</b>

**CHARACTERIZATION PHOTO REPORT  
FOR BUILDING 7033  
SID 14084**

**Date: 11/24/2020**

**Photographer: Carson Vick**



	<b>HA Description</b>	<b>White Drywall with Green and White Top Layer</b>
	<b>Sample #</b>	<b>SID14084-07</b>
	<b>Sample Location / Orientation</b>	<b>West Wall Above Door and Ceiling in Room 02B (Hallway).</b>
	<b>Sample/Inspection Results</b>	<b>SID14084-07 – None Detected</b>
	<b>Recommendation</b>	<b>None</b>



**CHARACTERIZATION PHOTO REPORT  
FOR BUILDING 7033  
SID 14084**

**Date: 11/24/2020**

**Photographer: Carson Vick**



	<b>HA Description</b>	<b>White Drywall with Green and White Top Layer</b>
	<b>Sample #</b>	<b>SID14084-08</b>
	<b>Sample Location / Orientation</b>	<b>South Wall Above Door and Ceiling in Room 05 (Changeroom).</b>
	<b>Sample/Inspection Results</b>	<b>SID14084-08 – None Detected</b>
	<b>Recommendation</b>	<b>None</b>

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7033 SID 14084

Date: 11/24/2020

Photographer: Carson Vick



<b>HA Description</b>	<b>Yellow Fiber Glass Batt Insulation</b>
<b>Sample #</b>	<b>SID14084-09</b>
<b>Sample Location / Orientation</b>	<b>South Wall Above Door and Ceiling in Room 05 (Change Room).</b>
<b>Sample/Inspection Results</b>	<b>SID14084-09 – None Detected Analysis revealed the yellow/tan/black insulation with paper backing as 90% fibrous glass and 5% cellulose fiber with overall result as None Detected.</b>
<b>Recommendation</b>	<b>None</b>

**CHARACTERIZATION PHOTO REPORT  
FOR BUILDING 7033  
SID 14084**

**Date: 11/24/2020**

**Photographer: Carson Vick**

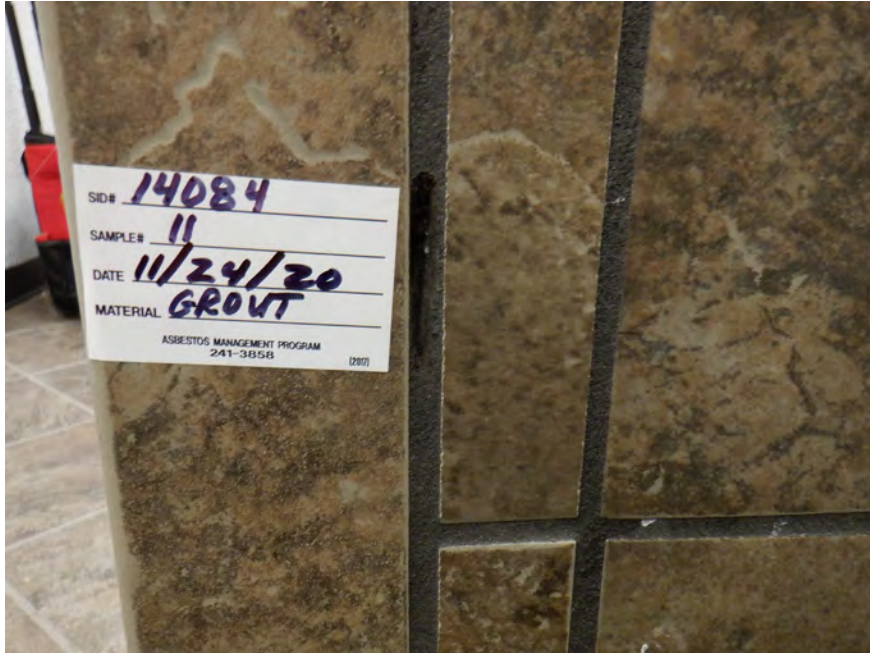


<b>HA Description</b>	<b>Yellow Fiber Glass Batt Insulation</b>
<b>Sample #</b>	<b>SID14084-10</b>
<b>Sample Location / Orientation</b>	<b>South Wall West of Door in Room 05 (Change Room).</b>
<b>Sample/Inspection Results</b>	<b>SID14084-10 – None Detected Analysis revealed the yellow/tan/black insulation with paper backing as 90% fibrous glass and 5% cellulose fiber with overall result as None Detected.</b>
<b>Recommendation</b>	<b>None</b>

**CHARACTERIZATION PHOTO REPORT  
FOR BUILDING 7033  
SID 14084**

**Date: 11/24/2020**

**Photographer: Carson Vick**



	<b>HA Description</b>	<b>Black Grout</b>
	<b>Sample #</b>	<b>SID14084-11</b>
	<b>Sample Location / Orientation</b>	<b>North Side of Wall Divider Between Shower and Locker Area in Room 05 (Change Room).</b>
	<b>Sample/Inspection Results</b>	<b>SID14084-11 – None Detected</b>
	<b>Recommendation</b>	<b>None</b>

**CHARACTERIZATION PHOTO REPORT  
FOR BUILDING 7033  
SID 14084**

**Date: 11/24/2020**

**Photographer: Carson Vick**

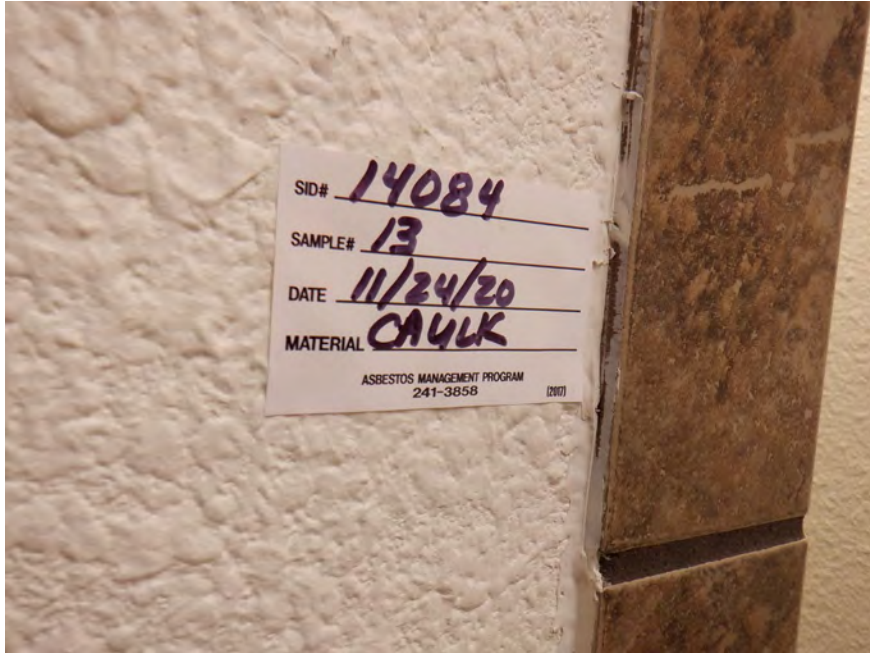


	<b>HA Description</b>	<b>Black Grout</b>
	<b>Sample #</b>	<b>SID14084-12</b>
	<b>Sample Location / Orientation</b>	<b>North Side of Wall Divider Between Shower Stalls in Room 05 (Change Room).</b>
	<b>Sample/Inspection Results</b>	<b>SID14084-12 – None Detected</b>
	<b>Recommendation</b>	<b>None</b>

**CHARACTERIZATION PHOTO REPORT  
FOR BUILDING 7033  
SID 14084**

**Date: 11/24/2020**

**Photographer: Carson Vick**

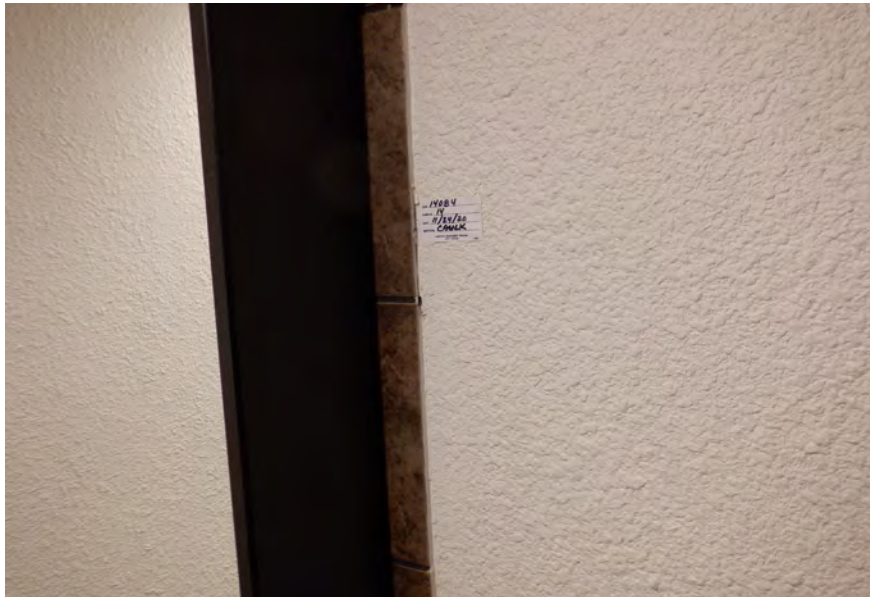
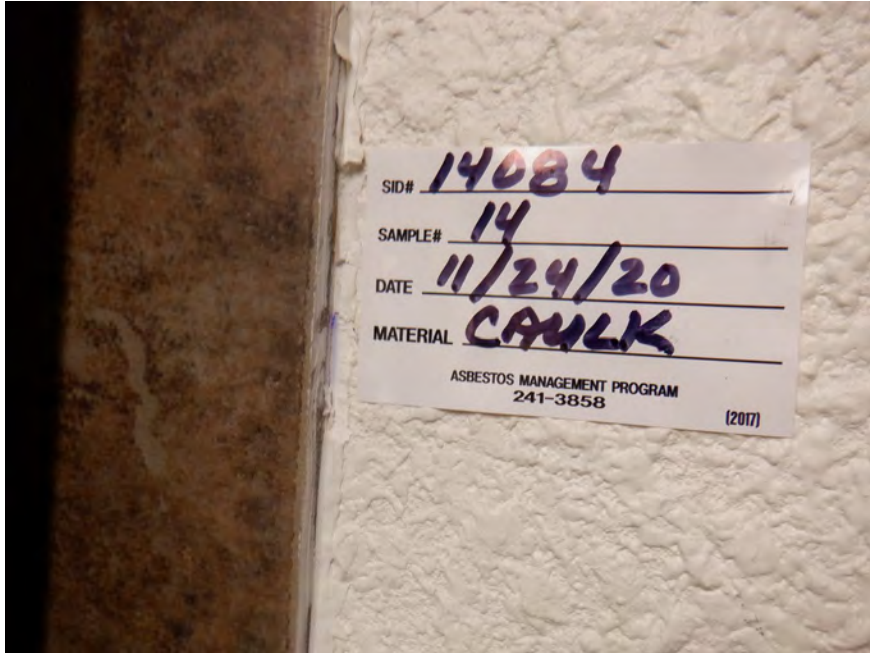


	<b>HA Description</b>	<b>White Caulk</b>
	<b>Sample #</b>	<b>SID14084-13</b>
	<b>Sample Location / Orientation</b>	<b>South Wall Divider Between Shower and Locker Area in Room 05 (Change Room).</b>
	<b>Sample/Inspection Results</b>	<b>SID14084-13 – None Detected</b>
	<b>Recommendation</b>	<b>None</b>

**CHARACTERIZATION PHOTO REPORT  
FOR BUILDING 7033  
SID 14084**

**Date: 11/24/2020**

**Photographer: Carson Vick**



	<b>HA Description</b>	<b>White Caulk</b>
	<b>Sample #</b>	<b>SID14084-14</b>
	<b>Sample Location / Orientation</b>	<b>South Wall Divider Between Shower and Stall in Room 05 (Change Room).</b>
	<b>Sample/Inspection Results</b>	<b>SID14084-14 – None Detected</b>
	<b>Recommendation</b>	<b>None</b>

**CHARACTERIZATION PHOTO REPORT  
FOR BUILDING 7033  
SID 14084**

**Date: 11/24/2020**

**Photographer: Carson Vick**



	<b>HA Description</b>	<b>Brown Spray Filler</b>
	<b>Sample #</b>	<b>SID14084-15</b>
	<b>Sample Location / Orientation</b>	<b>Outside at SW Corner of Room 05 (Changeroom)</b>
	<b>Sample/Inspection Results</b>	<b>SID14084-15 – None Detected</b>
	<b>Recommendation</b>	<b>None</b>



# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7033 SID 14084

Date: 11/24/2020

Photographer: Carson Vick



	<b>HA Description</b>	Brown Spray Filler
	<b>Sample #</b>	SID14084-16
	<b>Sample Location / Orientation</b>	Outside at West Side of NW Corner of Room 05 (Kitchen).
	<b>Sample/Inspection Results</b>	SID14084-16 – None Detectec
	<b>Recommendation</b>	None

## Sample Survey Profile Report

### Survey Profile Report - Survey Coversheet

Survey ID: **SID14084**  
 Status: **OPEN**  
 Survey Title: **ASBESTOS BULK\_7033\_FIRST\_FOR  
CRSF DEMO 11/24/2020**  
 Survey Date: **24-NOV-2020**  
 Location: **7033**  
 IH-Safety officer: **HANCOCK,JULIA (00034540)**  
 Primary Sampler: **VICK,CARSON (03026158)**

### Request Description

#### Description of and Purpose for Sampling:

Sampling for Bldg 7033 for demolition is support for the CRSF demo. Results to Nilay Jhaveri, Wendell Ely and Aaron Hicks.

Inspection and sampling of 7033. See attached sampling plans (one word file and one pdf file) for additional information, photos, and listing of suspect and non-suspect materials. Contact information listed on sampling plan. Inspection form is required to document NON\_SUSPECT material locations by walls, ceilings, and floors. Samples will be notated on the survey. See specific instructions on sample plan document.

#### Description of Sample Equipment and Placement While Sampling:

See individual samples and photo file

Sample Rationale: **FACILITY CHARACTERIZATION**

### Analytical Method

Sampling Matrix/Device: BULK MATERIAL

Sampling Method: ASBESTOS/IOP 01-12.01\_BULK

#### Description of Analysis Requested (for lab personnel)

Asbestos - PLM

### Survey Discussion

#### Discussion of Results, Expectations and History

Samples results for the cellulose tile, insulation materials, caulking, tile grout, drywall, and spray applied coating were all None Detected; therefore, no asbestos was present during analysis. No joint compound was seen with this drywall.

See SID14064, 14099, 14167, and 14208 for complete characterization results.

Inspection revealed all rooms contained a corrugated metal roof and corrugated metal walls and all rooms contained concrete slabs either visible or beneath ceramic tile.

Room 2 north wall was wood, fiberglass behind external walls. Above ceiling was not inspected. The bucket truck hibay staging area had fiberglass behind walls that share inside rooms. Expansion joints was present and sampled. Room 3 had drywall which was sampled. Room 4, the south side storage area had expansion joints consisting of cutouts with no suspect materials to sample in the joints. Room 5, the locker/shower change room area, was added on in 2012. The north, south, and west walls were behind drywall and a metal ceiling was above the showers. Yellow fiberglass was seen in external walls and historic walls of hallway 02B area.

## Recommendations to Workers and Management

No asbestos on this survey however, see SID14099 for asbestos wall filler materials; black tar and pink filler.

## Survey Attachments

	Description of Attachment	Filename When Uploaded
<a href="#">View/Download</a>	Sampling Request SID XXX Bldg 7033 for CRSF Demo (003).docx	Sampling Request SID XXX Bldg 7033 for CRSF Demo (003).docx
<a href="#">View/Download</a>	Bldg 7033 Sample Plan 2 (002).pdf	Bldg 7033 Sample Plan 2 (002).pdf
<a href="#">View/Download</a>	Bldg 7033 Sample Plan (003).docx	Bldg 7033 Sample Plan (003).docx
<a href="#">View/Download</a>	SID14084 Field Notes.pdf	SID14084 Field Notes.pdf
<a href="#">View/Download</a>	7033 Building Remodel HA Map.pdf	7033 Building Remodel HA Map.pdf
<a href="#">View/Download</a>	SID14084 Sample Results	HancockSID14084.pdf
<a href="#">View/Download</a>	SID14084 Characterization Photo File FINAL	SID14084 Characterization Photo File_Bldg 7033 FINAL.pdf
<a href="#">View/Download</a>	SID14084 Survey Summary Report	CTS041 SID14084 Survey Summar Report.pdf

## Tracking

Sample Date (or start) **24-NOV-2020**

Sent to Lab **24-DEC-2020**

## Sample results list

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
<a href="#">SID14084-01</a>	24-NOV-2020	BULK SAMPLING	TILE, CELLULOSE		7033	ASBESTOS - PLM	NONEDETECT	PERC	
<a href="#">SID14084-02</a>	24-NOV-2020	BULK SAMPLING	TILE, CELLULOSE		7033	ASBESTOS - PLM	NONEDETECT	PERC	
<a href="#">SID14084-03</a>	24-NOV-2020	BULK SAMPLING	TILE, CELLULOSE		7033	ASBESTOS - PLM	NONEDETECT	PERC	
<a href="#">SID14084-04</a>	24-NOV-2020	BULK SAMPLING	TILE, CELLULOSE		7033	ASBESTOS - PLM	NONEDETECT	PERC	
<a href="#">SID14084-05</a>	24-NOV-2020	BULK SAMPLING	COATING,SPRAYAPPLIED		7033	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID14084-06</a>	24-NOV-2020	BULK SAMPLING	COATING,SPRAYAPPLIED		7033	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID14084-07</a>	24-NOV-2020	BULK SAMPLING	DRYWALL		7033	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID14084-08</a>	24-NOV-2020	BULK SAMPLING	DRYWALL		7033	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID14084-09</a>	24-NOV-2020	BULK SAMPLING	INSULATION, BATT		7033	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID14084-10</a>	24-NOV-2020	BULK SAMPLING	INSULATION, BATT		7033	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID14084-11</a>	24-NOV-2020	BULK SAMPLING	GROUT, TILE		7033	ASBESTOS - PLM	NONEDETECT	PERC	
<a href="#">SID14084-12</a>	24-NOV-2020	BULK SAMPLING	GROUT, TILE		7033	ASBESTOS - PLM	NONEDETECT	PERC	
<a href="#">SID14084-13</a>	24-NOV-2020	BULK SAMPLING	CAULKING NOT WINDOWS		7033	ASBESTOS - PLM	NONEDETECT	PERC	
<a href="#">SID14084-14</a>	24-NOV-2020	BULK SAMPLING	CAULKING NOT WINDOWS		7033	ASBESTOS - PLM	NONEDETECT	PERC	
<a href="#">SID14084-15</a>	24-NOV-2020	BULK SAMPLING	FILLERS, WALLS		7033	ASBESTOS - PLM	NONEDETECT	PERC	
<a href="#">SID14084-16</a>	24-NOV-2020	BULK SAMPLING	FILLERS, WALLS		7033	ASBESTOS - PLM	NONEDETECT	PERC	

## SAMPLE DETAIL

Sample ID: SID14084-01 Survey ID: SID14084

Sample ID: **SID14084-01**  
 Survey ID: **SID14084**  
 Sample Date: **24-NOV-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **TILE, CELLULOSE**  
 Location: **7033**

#### Sample Detail

2 FT x 4 FT White Cellulose Tile, Fissured - South Side Ceiling of Room 05 (Change Room)

#### Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**  
 Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**  
 Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

#### Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONDETECT	PERC			

#### SAMPLE DETAIL

Sample ID: **SID14084-02** Survey ID: **SID14084**

Sample ID: **SID14084-02**  
 Survey ID: **SID14084**  
 Sample Date: **24-NOV-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **TILE, CELLULOSE**  
 Location: **7033**

#### Sample Detail

2 FT x 4 FT White Cellulose Tile, Fissured - North Side Ceiling of Room 05 (Change Room)

#### Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**  
 Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**  
 Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

#### Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONDETECT	PERC			

#### SAMPLE DETAIL

Sample ID: **SID14084-03** Survey ID: **SID14084**

Sample ID: **SID14084-03**  
 Survey ID: **SID14084**  
 Sample Date: **24-NOV-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **TILE, CELLULOSE**  
 Location: **7033**

#### Sample Detail

2 FT x 4 FT White Cellulose Tile, Fissured - North Side Middle Ceiling of Room 02B (Hallway)

#### Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**  
 Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**  
 Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC			

## SAMPLE DETAIL

Sample ID: SID14084-04 Survey ID: SID14084

Sample ID: **SID14084-04**Survey ID: **SID14084**Sample Date: **24-NOV-2020**Assessment: **BULK SAMPLING**Result Type: **TILE, CELLULOSE**Location: **7033****Sample Detail**

2 FT x 4 FT White Cellulose Tile, Fissured - North Side West Ceiling of Room 02B (Hallway)

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC			

## SAMPLE DETAIL

Sample ID: SID14084-05 Survey ID: SID14084

Sample ID: **SID14084-05**Survey ID: **SID14084**Sample Date: **24-NOV-2020**Assessment: **BULK SAMPLING**Result Type: **COATING, SPRAYAPPLIED**Location: **7033****Sample Detail**

White Textured Wall Coating - West Wall, South Side Beside Door of Room 02B (Hallway)

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID14084-06 Survey ID: SID14084

Sample ID: **SID14084-06**Survey ID: **SID14084**Sample Date: **24-NOV-2020**Assessment: **BULK SAMPLING**Result Type: **COATING, SPRAYAPPLIED**Location: **7033****Sample Detail**

White Textured Wall Coating - South Wall, West of Exterior Door of Room 05 (Change Room).

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: **SID14084-07** Survey ID: **SID14084**Sample ID: **SID14084-07**Survey ID: **SID14084**Sample Date: **24-NOV-2020**Assessment: **BULK SAMPLING**Result Type: **DRYWALL**Location: **7033****Sample Detail**

White Drywall with Green and White Top Layer - West Wall Above Door and Ceiling in Room 02B (Hallway).

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: **SID14084-08** Survey ID: **SID14084**Sample ID: **SID14084-08**Survey ID: **SID14084**Sample Date: **24-NOV-2020**Assessment: **BULK SAMPLING**Result Type: **DRYWALL**Location: **7033****Sample Detail**

White Drywall with Green and White Top Layer - South Wall Above Door and Ceiling in Room 05 (Changeroom).

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: **SID14084-09** Survey ID: **SID14084**Sample ID: **SID14084-09**Survey ID: **SID14084**Sample Date: **24-NOV-2020**Assessment: **BULK SAMPLING**

Result Type: **INSULATION, BATT**Location: **7033****Sample Detail**

Yellow Fiber Glass - South Wall Above Door and Ceiling in Room 05 (Change Room).

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: **SID14084-10** Survey ID: **SID14084**Sample ID: **SID14084-10**Survey ID: **SID14084**Sample Date: **24-NOV-2020**Assessment: **BULK SAMPLING**Result Type: **INSULATION, BATT**Location: **7033****Sample Detail**

Yellow Fiber Glass - South Wall West of Door in Room 05 (Change Room).

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: **SID14084-11** Survey ID: **SID14084**Sample ID: **SID14084-11**Survey ID: **SID14084**Sample Date: **24-NOV-2020**Assessment: **BULK SAMPLING**Result Type: **GROUT, TILE**Location: **7033****Sample Detail**

Black Grout - North Side of Wall Divider Between Shower and Locker Area in Room 05 (Change Room).

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC			

## SAMPLE DETAIL

Sample ID: **SID14084-12**  
 Survey ID: **SID14084**  
 Sample Date: **24-NOV-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **GROUT, TILE**  
 Location: **7033**

#### Sample Detail

Black Grout - North Side of Wall Divider Between Shower Stalls in Room 05 (Change Room).

#### Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**  
 Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**  
 Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

#### Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC			

#### SAMPLE DETAIL

Sample ID: **SID14084-13** Survey ID: **SID14084**

Sample ID: **SID14084-13**  
 Survey ID: **SID14084**  
 Sample Date: **24-NOV-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **CAULKING NOT WINDOWS**  
 Location: **7033**

#### Sample Detail

White Caulk - South Wall Divider Between Shower and Locker Area in Room 05 (Change Room).

#### Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**  
 Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**  
 Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

#### Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC			

#### SAMPLE DETAIL

Sample ID: **SID14084-14** Survey ID: **SID14084**

Sample ID: **SID14084-14**  
 Survey ID: **SID14084**  
 Sample Date: **24-NOV-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **CAULKING NOT WINDOWS**  
 Location: **7033**

#### Sample Detail

White Caulk - South Wall Divider Between Shower and Stall in Room 05 (Change Room).

#### Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**  
 Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**  
 Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**



Sample Results								
Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC			

## SAMPLE DETAIL

Sample ID: SID14084-15 Survey ID: SID14084

Sample ID: **SID14084-15**Survey ID: **SID14084**Sample Date: **24-NOV-2020**Assessment: **BULK SAMPLING**Result Type: **FILLERS, WALLS**Location: **7033**

## Sample Detail

Brown Spray Filler Insulation - Outside at SW Corner of Room 05 (Changeroom)

## Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL**

Sample Results								
Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC			

## SAMPLE DETAIL

Sample ID: SID14084-16 Survey ID: SID14084

Sample ID: **SID14084-16**Survey ID: **SID14084**Sample Date: **24-NOV-2020**Assessment: **BULK SAMPLING**Result Type: **FILLERS, WALLS**Location: **7033**

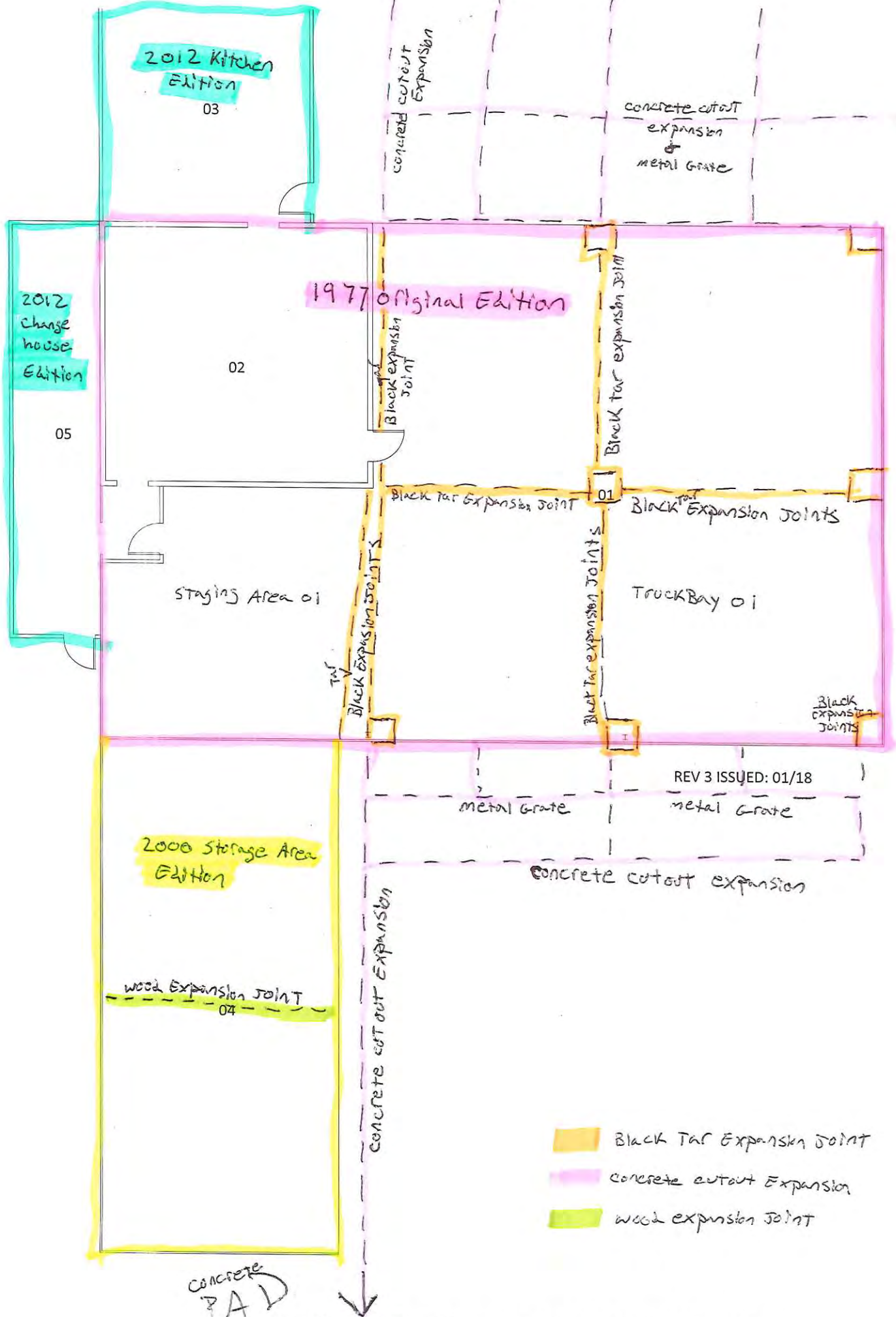
## Sample Detail

Brown Spray Filler Insulation - Outside at West Side of NW Corner of Room 05 (Kitchen).

## Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL**

Sample Results								
Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC			



- Black Tar Expansion Joint
- concrete cutout expansion
- wood expansion joint

BUILDING 7022 FIRST FLOOR PLAN

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7033 SID 14099

**Date: 12/02/2020**

**Photographer: Carson Vick**

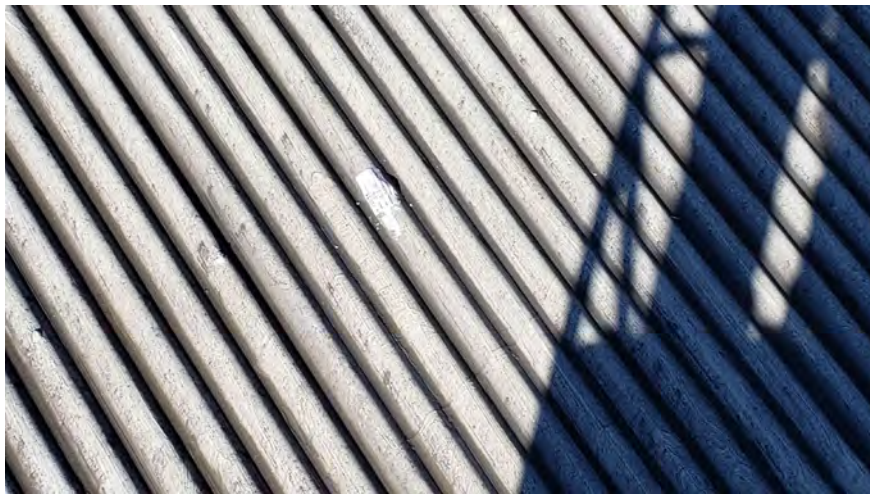


	<b>HA Description</b>	<b>White Surfacing Coating</b>
	<b>Sample #</b>	<b>SID14099-01</b>
	<b>Sample Location / Orientation</b>	<b>Center of Original Roof Above Bucket Truck Area (01).</b>
	<b>Sample/Inspection Results</b>	<b>SID14099-01 – None Detected</b>
	<b>Recommendation</b>	<b>None</b>

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7033 SID 14099

**Date: 12/02/2020**

**Photographer: Carson Vick**

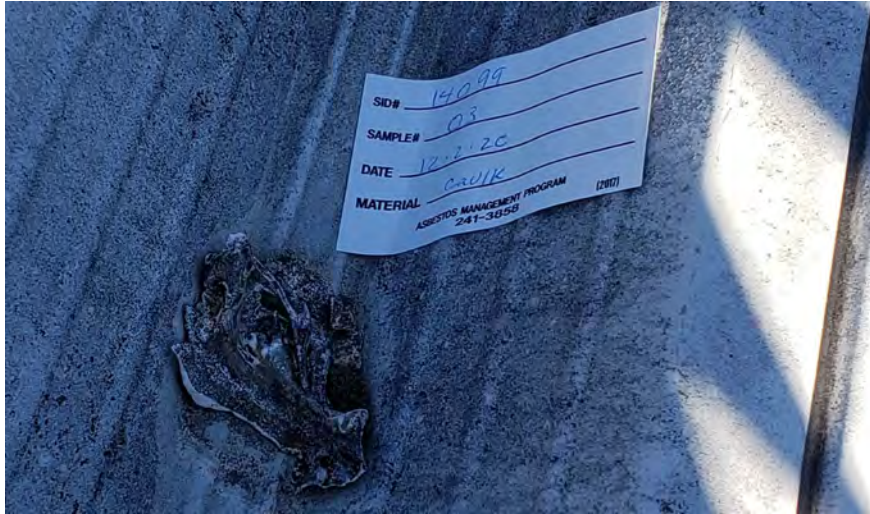


	<b>HA Description</b>	<b>White Surfacing Coating</b>
	<b>Sample #</b>	<b>SID14099-02</b>
	<b>Sample Location / Orientation</b>	<b>SW Corner of Original Roof Above Bucket Truck Area (01).</b>
	<b>Sample/Inspection Results</b>	<b>SID14099-02 – None Detected</b>
	<b>Recommendation</b>	<b>None</b>

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7033 SID 14099

**Date: 12/02/2020**

**Photographer: Carson Vick**



	<b>HA Description</b>	White Caulk
	<b>Sample #</b>	SID14099-03
	<b>Sample Location / Orientation</b>	NE Corner of Roof. 20 year add on storage area Roof (04).
	<b>Sample/Inspection Results</b>	SID14099-03 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7033 SID 14099

Date: 12/02/2020

Photographer: Carson Vick

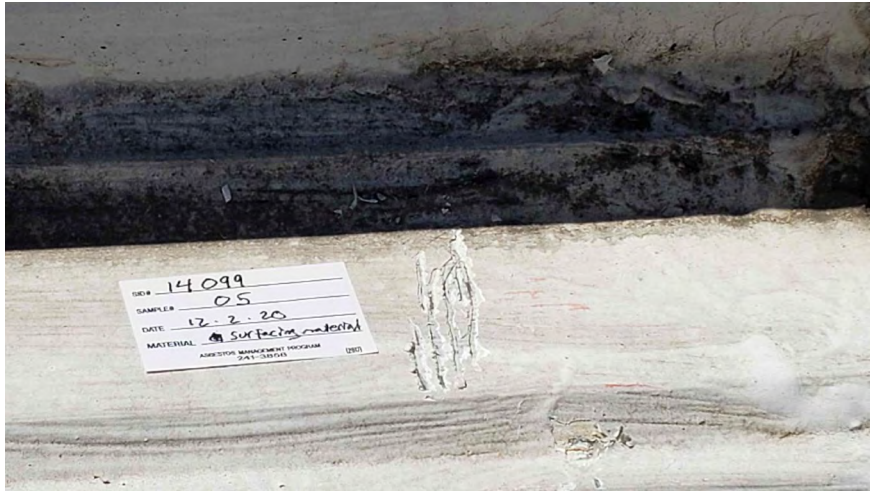


	<b>HA Description</b>	White Caulk
	<b>Sample #</b>	SID14099-04
	<b>Sample Location / Orientation</b>	Center of Roof (20 year add on storage area (04)).
	<b>Sample/Inspection Results</b>	SID14099-04 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7033 SID 14099

**Date: 12/02/2020**

**Photographer: Carson Vick**



	<b>HA Description</b>	<b>White Surfacing Coating</b>
	<b>Sample #</b>	<b>SID14099-05</b>
	<b>Sample Location / Orientation</b>	<b>NE Corner of Roof Above Kitchen 03.</b>
	<b>Sample/Inspection Results</b>	<b>SID14099-05 – None Detected</b>
	<b>Recommendation</b>	<b>None</b>

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7033 SID 14099

**Date: 12/02/2020**

**Photographer: Carson Vick**



	<b>HA Description</b>	<b>White Surfacing Coating</b>
	<b>Sample #</b>	<b>SID14099-06</b>
	<b>Sample Location / Orientation</b>	<b>Center of Roof Above Kitchen 03.</b>
	<b>Sample/Inspection Results</b>	<b>SID14099-06 – None Detected</b>
	<b>Recommendation</b>	<b>None</b>



# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7033 SID 14099

Date: 12/02/2020

Photographer: Carson Vick



	<b>HA Description</b>	<b>Black Tar w/Gray Layers</b>
	<b>Sample #</b>	<b>SID14099-07</b>
	<b>Sample Location / Orientation</b>	<b>Outside SE Corner of Room 02 on Wall Beam near Ceiling. Under Bucket Truck Area (01).</b>
	<b>Sample/Inspection Results</b>	<b>SID14099-07 – 20% Asbestos Chrysotile</b>
	<b>Recommendation</b>	<b>Remove as ACM.</b>

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7033 SID 14099

Date: 12/02/2020

Photographer: Carson Vick



	<b>HA Description</b>	<b>Black Tar w/Gray Layers</b>
	<b>Sample #</b>	<b>SID14099-08</b>
	<b>Sample Location / Orientation</b>	<b>Outside SE Corner of Room 02 on Wall Beam near Ceiling. Under Bucket Truck Area (01).</b>
	<b>Sample/Inspection Results</b>	<b>SID14099-08 – 25% Asbestos Chrysotile</b>
	<b>Recommendation</b>	<b>Remove as ACM.</b>

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7033 SID 14099

Date: 12/02/2020

Photographer: Carson Vick



	<b>HA Description</b>	Pink Filler Putty Caulk
	<b>Sample #</b>	SID14099-09
	<b>Sample Location / Orientation</b>	Outside SE Corner of Room 02 around conduit. Under Bucket Truck Area (01). Below Samples 07/08.
	<b>Sample/Inspection Results</b>	SID14099-09 – 4% Asbestos Chrysotile
	<b>Recommendation</b>	Remove as ACM.

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7033 SID 14099

Date: 12/02/2020

Photographer: Carson Vick



	<b>HA Description</b>	Pink Filler Putty Caulk
	<b>Sample #</b>	SID14099-10
	<b>Sample Location / Orientation</b>	Outside SE Corner of Room 02 around conduit. Under Bucket Truck Area (01). Below Samples 07/08.
	<b>Sample/Inspection Results</b>	SID14099-10 – 4% Asbestos Chrysotile
	<b>Recommendation</b>	Remove as ACM.

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7033 SID 14099

**Date: 12/03/2020**

**Photographer: Carson Vick**



	<b>HA Description</b>	<b>Yellow/Burnt Orange Spray Foam Filler</b>
	<b>Sample #</b>	<b>SID14099-11</b>
	<b>Sample Location / Orientation</b>	<b>Outside South Wall of 02 in Storage Area of 01 at 7ft.</b>
	<b>Sample/Inspection Results</b>	<b>SID14099-11 – None Detected</b>
	<b>Recommendation</b>	<b>None</b>

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7033 SID 14099

**Date: 12/03/2020**

**Photographer: Carson Vick**



	<b>HA Description</b>	<b>Yellow/Burnt Orange Spray Foam Filler</b>
	<b>Sample #</b>	<b>SID14099-12</b>
	<b>Sample Location / Orientation</b>	<b>Outside South Wall of 02 in Storage Area of 01 at 7ft.</b>
	<b>Sample/Inspection Results</b>	<b>SID14099-12 – None Detected</b>
	<b>Recommendation</b>	<b>None</b>

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7033 SID 14099

**Date: 12/03/2020**

**Photographer: Carson Vick**

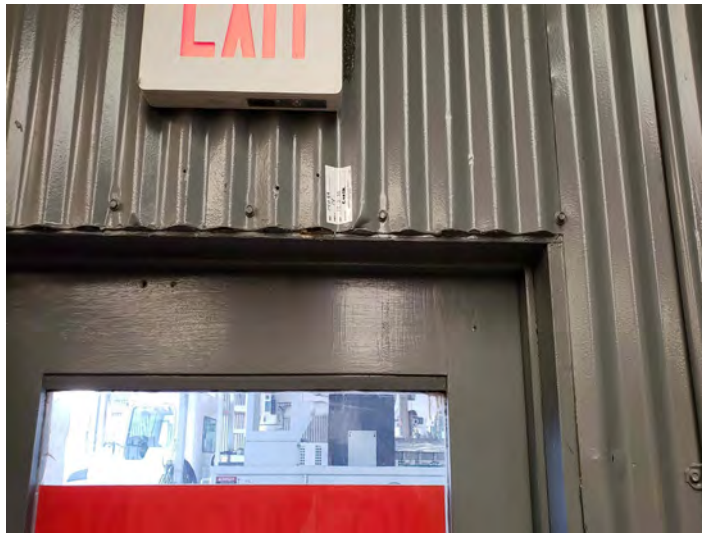


	<b>HA Description</b>	White Caulk
	<b>Sample #</b>	SID14099-13
	<b>Sample Location / Orientation</b>	SW Corner of Room 02.
	<b>Sample/Inspection Results</b>	SID14099-13 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7033 SID 14099

**Date: 12/03/2020**

**Photographer: Carson Vick**



	<b>HA Description</b>	<b>White Caulk</b>
	<b>Sample #</b>	<b>SID14099-14</b>
	<b>Sample Location / Orientation</b>	<b>Above East Exterior Door of Room 02.</b>
	<b>Sample/Inspection Results</b>	<b>SID14099-14 – None Detected</b>
	<b>Recommendation</b>	<b>None</b>



# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7033 SID 14099

Date: 12/03/2020

Photographer: Carson Vick



	<b>HA Description</b>	Brown Fiber Board w/Paper
	<b>Sample #</b>	SID14099-15
	<b>Sample Location / Orientation</b>	SW Corner Behind Caulk, in Crack between Corrugated Metal Walls.
	<b>Sample/Inspection Results</b>	SID14099-15 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7033 SID 14099

Date: 12/03/2020

Photographer: Carson Vick



	<b>HA Description</b>	Brown Fiber Board w/Paper
	<b>Sample #</b>	SID14099-16
	<b>Sample Location / Orientation</b>	SW Corner Behind Caulk, in Crack between Corrugated Metal Walls.
	<b>Sample/Inspection Results</b>	SID14099-16 – None Detected
	<b>Recommendation</b>	None

## Sample Survey Profile Report

### Survey Profile Report - Survey Coversheet

Survey ID: **SID14099**  
Status: **OPEN**  
Survey Title: **ASBESTOS BULK\_7033\_FIRST\_FOR  
CRSF DEMO 12/2/2020**  
Survey Date: **02-DEC-2020**  
Location: **7033**  
IH-Safety officer: **HANCOCK,JULIA (00034540)**  
Primary Sampler: **VICK,CARSON (03026158)**

### Request Description

#### Description of and Purpose for Sampling:

Sampling for Bldg 7033 for demolition is support for the CRSF demo. Results to Nilay Jhaveri, Wendell Ely and Aaron Hicks.

Inspection and sampling of 7033. See attached sampling plans (one word file and one pdf file) for additional information, photos, and listing of suspect and non-suspect materials. Contact information listed on sampling plan. Inspection form is required to document NON\_SUSPECT material locations by walls, ceilings, and floors. Samples will be notated on the survey. See specific instructions on sample plan document.

#### Description of Sample Equipment and Placement While Sampling:

See individual samples and photo file

Sample Rationale: **FACILITY CHARACTERIZATION**

### Analytical Method

Sampling Matrix/Device: BULK MATERIAL

Sampling Method: ASBESTOS/IOP 01-12.01\_BULK

#### Description of Analysis Requested (for lab personnel)

Asbestos - PLM

### Survey Discussion

#### Discussion of Results, Expectations and History

Sample results for the roof coating, caulking, burnt orange wall filler, and the fiber board panel, were all None Detected; therefore, no asbestos was seen during analysis. However, the black tar filler (similar to roof tar) and the pink wall filler results were 20-25% and 4% respectively. See samples -07, -08, -09, -10 for more details on the wall filler materials.

See SID14064, 14084, 14167, and 14208 for complete characterization results.

Inspection revealed all rooms contained a corrugated metal roof and corrugated metal walls and all rooms contained concrete slabs either visible or beneath ceramic tile.

Room 2 north wall was wood, fiberglass behind external walls. Above ceiling was not inspected. The bucket truck hibay staging area had fiberglass behind walls that share inside rooms. Expansion joints was present and sampled. Room 3 had drywall which was sampled. Room 4, the south side storage area had expansion joints consisting of cutouts with no suspect materials to sample in the joints. Room 5, the locker/shower change room area, was added on in 2012. The north, south, and west walls were behind drywall and a metal ceiling was above the showers. Yellow fiberglass was seen in

external walls and historic walls of hallway 02B area.

#### Recommendations to Workers and Management

Remove black tar filler and pink wall filler prior to demolition utilizing an AWA and disposing as non-friable waste.

#### Survey Attachments

	Description of Attachment	Filename When Uploaded
<a href="#">View/Download</a>	Sampling Request SID XXX Bldg 7033 for CRSF Demo (003).docx	Sampling Request SID XXX Bldg 7033 for CRSF Demo (003).docx
<a href="#">View/Download</a>	Bldg 7033 Sample Plan 2 (002).pdf	Bldg 7033 Sample Plan 2 (002).pdf
<a href="#">View/Download</a>	7033 Building Remodel HA Map.pdf	7033 Building Remodel HA Map.pdf
<a href="#">View/Download</a>	SID14099 Field Notes.pdf	SID14099 Field Notes.pdf
<a href="#">View/Download</a>	SID14099 Sample Results	HancockSID14099.pdf
<a href="#">View/Download</a>	SID14099 Characterization Photo File FINAL	SID14099 Characterization Photo File Bldg 7033 FINAL.pdf

#### Tracking

Sample Date (or start) **02-DEC-2020**

Sent to Lab **07-DEC-2020**

#### Sample results list

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
<a href="#">SID14099-01</a>	02-DEC-2020	BULK SAMPLING	ROOF COATING		7033	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID14099-02</a>	02-DEC-2020	BULK SAMPLING	ROOF COATING		7033	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID14099-03</a>	02-DEC-2020	BULK SAMPLING	CAULKING NOT WINDOWS		7033	ASBESTOS - PLM	NONEDETECT	PERC	
<a href="#">SID14099-04</a>	02-DEC-2020	BULK SAMPLING	CAULKING NOT WINDOWS		7033	ASBESTOS - PLM	NONEDETECT	PERC	
<a href="#">SID14099-05</a>	02-DEC-2020	BULK SAMPLING	ROOF COATING		7033	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID14099-06</a>	02-DEC-2020	BULK SAMPLING	ROOF COATING		7033	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID14099-07</a>	02-DEC-2020	BULK SAMPLING	FILLERS, WALLS		7033	ASBESTOS - CHRYSOTILE	20	PERC	
<a href="#">SID14099-08</a>	02-DEC-2020	BULK SAMPLING	FILLERS, WALLS		7033	ASBESTOS - CHRYSOTILE	25	PERC	
<a href="#">SID14099-09</a>	02-DEC-2020	BULK SAMPLING	FILLERS, WALLS		7033	ASBESTOS - CHRYSOTILE	4	PERC	
<a href="#">SID14099-10</a>	02-DEC-2020	BULK SAMPLING	FILLERS, WALLS		7033	ASBESTOS - CHRYSOTILE	4	PERC	
<a href="#">SID14099-11</a>	03-DEC-2020	BULK SAMPLING	FILLERS, WALLS		7033	ASBESTOS - PLM	NONEDETECT	PERC	

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
SID14099-12	03-DEC-2020	BULK SAMPLING	FILLERS, WALLS		7033	ASBESTOS - PLM	NONEDETECT	PERC	
SID14099-13	03-DEC-2020	BULK SAMPLING	CAULKING NOT WINDOWS		7033	ASBESTOS - PLM	NONEDETECT	PERC	
SID14099-14	03-DEC-2020	BULK SAMPLING	CAULKING NOT WINDOWS		7033	ASBESTOS - PLM	NONEDETECT	PERC	
SID14099-15	03-DEC-2020	BULK SAMPLING	PANEL MATERIAL		7033	ASBESTOS - PLM	NONEDETECT	PERC	
SID14099-16	03-DEC-2020	BULK SAMPLING	PANEL MATERIAL		7033	ASBESTOS - PLM	NONEDETECT	PERC	

## SAMPLE DETAIL

Sample ID: SID14099-01 Survey ID: SID14099

Sample ID: **SID14099-01**Survey ID: **SID14099**Sample Date: **02-DEC-2020**Assessment: **BULK SAMPLING**Result Type: **ROOF COATING**Location: **7033**

## Sample Detail

White Surfacing Roof Coating - Center of Original Roof Above Bucket Truck Area (01).

## Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL**

## Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID14099-02 Survey ID: SID14099

Sample ID: **SID14099-02**Survey ID: **SID14099**Sample Date: **02-DEC-2020**Assessment: **BULK SAMPLING**Result Type: **ROOF COATING**Location: **7033**

## Sample Detail

White Surfacing Roof Coating - SW Corner of Original Roof Above Bucket Truck Area (01).

## Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL**

## Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID14099-03 Survey ID: SID14099

Sample ID: **SID14099-03**Survey ID: **SID14099**Sample Date: **02-DEC-2020**Assessment: **BULK SAMPLING**Result Type: **CAULKING NOT WINDOWS**Location: **7033**

## Sample Detail

White Caulk - NE Corner f Roof (20 yr add on storage area (04)).

## Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL**

## Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONDETECT	PERC			

## SAMPLE DETAIL

Sample ID: SID14099-04 Survey ID: SID14099

Sample ID: **SID14099-04**Survey ID: **SID14099**Sample Date: **02-DEC-2020**Assessment: **BULK SAMPLING**Result Type: **CAULKING NOT WINDOWS**Location: **7033**

## Sample Detail

White Caulk - Center of Roof (20 yr add on storage area (04)).

## Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL**

## Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONDETECT	PERC			

## SAMPLE DETAIL

Sample ID: SID14099-05 Survey ID: SID14099

Sample ID: **SID14099-05**Survey ID: **SID14099**Sample Date: **02-DEC-2020**Assessment: **BULK SAMPLING**Result Type: **ROOF COATING**Location: **7033**

## Sample Detail

White Surfacing Roof Coating - NE Corner of Roof Above Kitchen 03.

## Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID14099-06 Survey ID: SID14099

Sample ID: **SID14099-06**Survey ID: **SID14099**Sample Date: **02-DEC-2020**Assessment: **BULK SAMPLING**Result Type: **ROOF COATING**Location: **7033****Sample Detail**

White Surfacing Roof Coating - Center of Roof Above Kitchen 03.

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID14099-07 Survey ID: SID14099

Sample ID: **SID14099-07**Survey ID: **SID14099**Sample Date: **02-DEC-2020**Assessment: **BULK SAMPLING**Result Type: **FILLERS, WALLS**Location: **7033****Sample Detail**

Black Tar w/Gray Layers - Outside SE Corner of Room 02 on Wall Beam near Ceiling. Under Bucket Truck Area (01).

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - CHRYSOTILE				20	PERC			

## SAMPLE DETAIL

Sample ID: SID14099-08 Survey ID: SID14099

Sample ID: **SID14099-08**Survey ID: **SID14099**Sample Date: **02-DEC-2020**Assessment: **BULK SAMPLING**Result Type: **FILLERS, WALLS**Location: **7033****Sample Detail**

Black Tar w/Gray Layers - Outside SE Corner of Room 02 on Wall Beam near Ceiling. Under Bucket Truck Area (01).

**Sort Groups**

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**

Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - CHRYSOTILE				25	PERC			

## SAMPLE DETAIL

Sample ID: **SID14099-09** Survey ID: **SID14099**

Sample ID: **SID14099-09**

Survey ID: **SID14099**

Sample Date: **02-DEC-2020**

Assessment: **BULK SAMPLING**

Result Type: **FILLERS, WALLS**

Location: **7033**

**Sample Detail**

Pink Filler Putty Caulk - Outside SE Corner of Room 02 around conduit. Under Bucket Truck Area (01). Below Samples 07/08.

**Sort Groups**

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**

Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - CHRYSOTILE				4	PERC			

## SAMPLE DETAIL

Sample ID: **SID14099-10** Survey ID: **SID14099**

Sample ID: **SID14099-10**

Survey ID: **SID14099**

Sample Date: **02-DEC-2020**

Assessment: **BULK SAMPLING**

Result Type: **FILLERS, WALLS**

Location: **7033**

**Sample Detail**

Pink Filler Putty Caulk - Outside SE Corner of Room 02 around conduit. Under Bucket Truck Area (01). Below Samples 07/08.

**Sort Groups**

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**

Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - CHRYSOTILE				4	PERC			

## SAMPLE DETAIL

Sample ID: **SID14099-11** Survey ID: **SID14099**

Sample ID: **SID14099-11**

Survey ID: **SID14099**



Sample Date: **03-DEC-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **FILLERS, WALLS**  
 Location: **7033**

**Sample Detail**

Yellow/Burnt Orange Spray Foam Filler - Outside South Wall of 02 in Storage Area of 01 at 7ft.

**Sort Groups**

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**  
 Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**  
 Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC			

## SAMPLE DETAIL

Sample ID: **SID14099-12** Survey ID: **SID14099**

Sample ID: **SID14099-12**  
 Survey ID: **SID14099**  
 Sample Date: **03-DEC-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **FILLERS, WALLS**  
 Location: **7033**

**Sample Detail**

Yellow/Burnt Orange Spray Foam Filler - Outside South Wall of 02 in Storage Area of 01 at 7ft.

**Sort Groups**

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**  
 Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**  
 Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC			

## SAMPLE DETAIL

Sample ID: **SID14099-13** Survey ID: **SID14099**

Sample ID: **SID14099-13**  
 Survey ID: **SID14099**  
 Sample Date: **03-DEC-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **CAULKING NOT WINDOWS**  
 Location: **7033**

**Sample Detail**

White Caulk - SW Corner of Room 02.

**Sort Groups**

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**  
 Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**  
 Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC			

## SAMPLE DETAIL

Sample ID: SID14099-14 Survey ID: SID14099

Sample ID: **SID14099-14**

Survey ID: **SID14099**

Sample Date: **03-DEC-2020**

Assessment: **BULK SAMPLING**

Result Type: **CAULKING NOT WINDOWS**

Location: **7033**

#### Sample Detail

White Caulk - Above East Exterior Door of Room 02.

#### Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**

Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

#### Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC			

## SAMPLE DETAIL

Sample ID: SID14099-15 Survey ID: SID14099

Sample ID: **SID14099-15**

Survey ID: **SID14099**

Sample Date: **03-DEC-2020**

Assessment: **BULK SAMPLING**

Result Type: **PANEL MATERIAL**

Location: **7033**

#### Sample Detail

Brown Fiber Board w/Paper - SW Corner Behind Caulk, in Crack between Corrugated Metal Walls.

#### Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**

Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

#### Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC			

## SAMPLE DETAIL

Sample ID: SID14099-16 Survey ID: SID14099

Sample ID: **SID14099-16**

Survey ID: **SID14099**

Sample Date: **03-DEC-2020**

Assessment: **BULK SAMPLING**

Result Type: **PANEL MATERIAL**

Location: **7033**

#### Sample Detail

Brown Fiber Board w/Paper - SW Corner Behind Caulk, in Crack between Corrugated Metal Walls.

**Sort Groups**

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**

Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC			

**CHARACTERIZATION PHOTO REPORT FOR BUILDING 7033  
RENOVATION PROJECT  
SID 14167**

**Date: 12/29/2020**

**Inspector: Carson Vick**



	<b>HA Description</b>	Spray Applied Ceiling Insulation
	<b>Sample #</b>	<b>SID14167-01</b>
	<b>Sample Location / Orientation</b>	SID14167-01 – Rm 02; N.W. Corner above upper drop ceiling
	<b>Sample/Inspection Results</b>	<b>SID14167-01 – None Detected</b> <b>Analysis revealed the brown fibrous layer as 95% cellulose.</b>
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7033 RENOVATION PROJECT SID 14167

**Date:** 12/29/2020

**Inspector:** Carson Vick

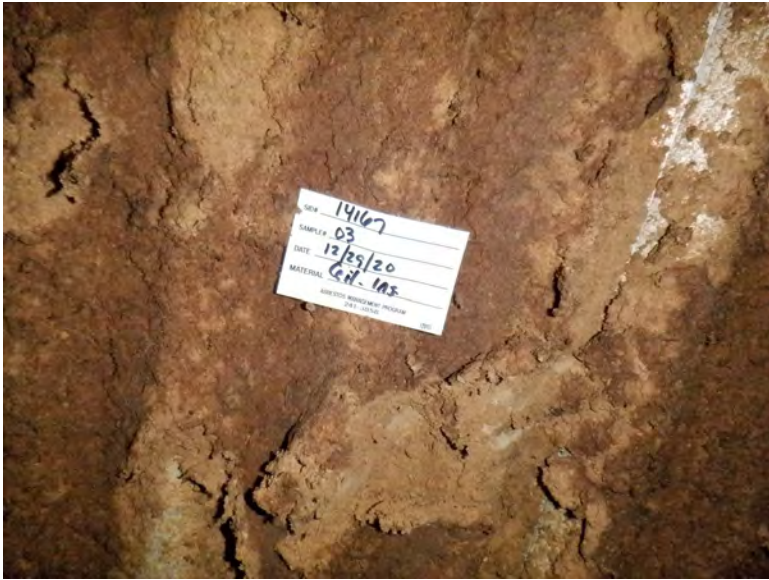


<b>HA Description</b>	Spray Applied Ceiling Insulation
<b>Sample #</b>	SID14167-02
<b>Sample Location / Orientation</b>	SID14167-02 – Rm 02: S.W. Corner above upper drop ceiling
<b>Sample/Inspection Results</b>	SID14167-02 – None Detected Analysis revealed the brown fibrous layer as 95% cellulose.
<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7033 RENOVATION PROJECT SID 14167

**Date:** 12/29/2020

**Inspector:** Carson Vick

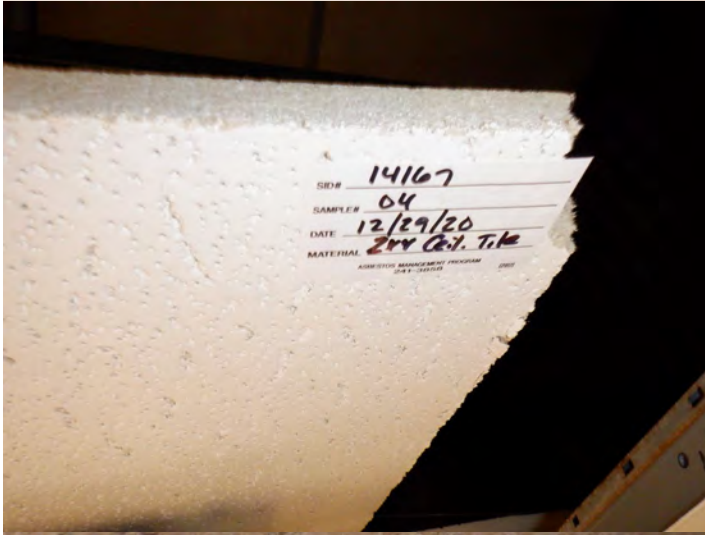


	<b>HA Description</b>	Spray Applied Ceiling Insulation
	<b>Sample #</b>	SID14167-03
	<b>Sample Location / Orientation</b>	SID14167-03 – Rm 02; N.E. Corner above upper drop ceiling
	<b>Sample/Inspection Results</b>	SID14167-03 – None Detected Analysis revealed the brown fibrous layer as 95% cellulose.
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7033 RENOVATION PROJECT SID 14167

Date: 12/29/2020

Inspector: Carson Vick



	<b>HA Description</b>	2 FT X 2 FT White Cellulose Ceiling Tile, Fissured, Holey (Fissured with Pin Holes)
	<b>Sample #</b>	<b>SID14167-04</b> <b>SID14167-05</b>
	<b>Sample Location / Orientation</b>	SID14167-04 – Rm 02; N.W. Corner of Room SID14167-05 – Rm 02; N.E. Corner of Room
	<b>Sample/Inspection Results</b>	<b>SID14167-04 – None Detected</b> <b>SID14167-05 – None Detected</b>
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7033 RENOVATION PROJECT SID 14167

Date: 12/29/2020

Inspector: Carson Vick



<b>HA Description</b>	Pink Batt Insulation
<b>Sample #</b>	<b>SID14167-06</b> <b>SID14167-07</b>
<b>Sample Location / Orientation</b>	SID14167-06 – Rm 02; N.W. Corner, above lower drop ceiling SID14167-07 – Rm 02; S.W. Corner, above lower drop ceiling
<b>Sample/Inspection Results</b>	SID14167-06 – None Detected SID14167-07 – None Detected Analysis revealed the pink fibrous layer as 95% mineral wool.
<b>Recommendation</b>	None



## Sample Survey Profile Report

### Survey Profile Report - Survey Coversheet

Survey ID: **SID14167**  
 Status: **OPEN**  
 Survey Title: **ASBESTOS  
 BULK\_7033\_FIRST\_02\_ABOVE  
 CEILING FOR CRSF DEMO  
 12/29/2020**  
 Survey Date: **29-DEC-2020**  
 Location: **7033 FIRST 02**  
 IH-Safety officer: **HANCOCK,JULIA (00034540)**  
 Primary Sampler: **VICK,CARSON (03026158)**

### Request Description

#### Description of and Purpose for Sampling:

Sampling for Bldg 7033 for demolition is support for the CRSF demo. Results to Nilay Jhaveri, Wendell Ely and Aaron Hicks.

Inspection and sampling of 7033. See attached sampling plans (one word file and one pdf file) for additional information, photos, and listing of suspect and non-suspect materials. Contact information listed on sampling plan. Inspection form is required to document NON\_SUSPECT material locations by walls, ceilings, and floors. Samples will be notated on the survey. See specific instructions on sample plan document.

Sample Rationale: **FACILITY CHARACTERIZATION**

### Analytical Method

Sampling Matrix/Device: BULK MATERIAL

Sampling Method: ASBESTOS/IOP 01-12.01\_BULK

#### Description of Analysis Requested (for lab personnel)

Asbestos - PLM

### Survey Discussion

#### Discussion of Results, Expectations and History

Sample results for the spray applied insulation, batt insulation and ceiling tiles were all None Detected; therefore, no asbestos was seen during analysis.

See SID14064, 14084, 14099, and 14208 for complete characterization results.

Inspection revealed all rooms contained a corrugated metal roof and corrugated metal walls and all rooms contained concrete slabs either visible or beneath ceramic tile.

Room 2 north wall was wood, fiberglass behind external walls. Above ceiling was not inspected. The bucket truck hibay staging area had fiberglass behind walls that share inside rooms. Expansion joints was present and sampled. Room 3 had drywall which was sampled. Room 4, the south side storage area had expansion joints consisting of cutouts with no suspect materials to sample in the joints. Room 5, the locker/shower change room area, was added on in 2012. The north, south, and west walls were behind drywall and a metal ceiling was above the showers. Yellow fiberglass was seen in external walls and historic walls of hallway 02B area.

#### Recommendations to Workers and Management

No asbestos on this survey however, see SID14099 for asbestos wall filler materials; black tar and pink filler.

**Survey Attachments**

	Description of Attachment	Filename When Uploaded
<a href="#">View/Download</a>	Sampling Request SID XXX Bldg 7033 for CRSF Demo (003).docx	Sampling Request SID XXX Bldg 7033 for CRSF Demo (003).docx
<a href="#">View/Download</a>	SID14167 Field notes.pdf	SID14167 Field notes.pdf
<a href="#">View/Download</a>	SID14167 Sample Results	HancockSID14167.pdf
<a href="#">View/Download</a>	SID14167 Characterization Photo File FINAL	SID14167_Characterization Photo File_Bldg 7033 FINAL.pdf

**Tracking**

Sample Date (or start) **29-DEC-2020**  
 Sent to Lab **30-DEC-2020**

**Sample results list**

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
SID14167-01	29-DEC-2020	BULK SAMPLING	INSULATION,SPRYAPPLY		7033 FIRST 02	ASBESTOS - PLM	NONEDETECT	PERC	1
SID14167-02	29-DEC-2020	BULK SAMPLING	INSULATION,SPRYAPPLY		7033 FIRST 02	ASBESTOS - PLM	NONEDETECT	PERC	1
SID14167-03	29-DEC-2020	BULK SAMPLING	INSULATION,SPRYAPPLY		7033 FIRST 02	ASBESTOS - PLM	NONEDETECT	PERC	1
SID14167-04	29-DEC-2020	BULK SAMPLING	TILE, CELLULOSE		7033 FIRST 02	ASBESTOS - PLM	NONEDETECT	PERC	
SID14167-05	29-DEC-2020	BULK SAMPLING	TILE, CELLULOSE		7033 FIRST 02	ASBESTOS - PLM	NONEDETECT	PERC	
SID14167-06	29-DEC-2020	BULK SAMPLING	INSULATION, BATT		7033 FIRST 02	ASBESTOS - PLM	NONEDETECT	PERC	1
SID14167-07	29-DEC-2020	BULK SAMPLING	INSULATION, BATT		7033 FIRST 02	ASBESTOS - PLM	NONEDETECT	PERC	1

SAMPLE DETAIL

Sample ID: SID14167-01 Survey ID: SID14167

Sample ID: **SID14167-01**  
 Survey ID: **SID14167**  
 Sample Date: **29-DEC-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **INSULATION,SPRYAPPLY**  
 Location: **7033 FIRST 02**

**Sample Detail**

Brown Spray Applied Ceiling Insulation - NW Corner Above Two Drop Ceilings

**Sort Groups**

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**  
 Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**  
 Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

SAMPLE DETAIL

Sample ID: SID14167-02 Survey ID: SID14167

Sample ID: **SID14167-02**  
 Survey ID: **SID14167**  
 Sample Date: **29-DEC-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **INSULATION,SPRYAPPLY**  
 Location: **7033 FIRST 02**

**Sample Detail**

Brown Spray Applied Ceiling Insulation - SW Corner Above Two Drop Ceilings

**Sort Groups**

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**  
 Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**  
 Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: **SID14167-03** Survey ID: **SID14167**

Sample ID: **SID14167-03**  
 Survey ID: **SID14167**  
 Sample Date: **29-DEC-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **INSULATION,SPRYAPPLY**  
 Location: **7033 FIRST 02**

**Sample Detail**

Brown Spray Applied Ceiling Insulation - NE Corner Above Two Drop Ceilings

**Sort Groups**

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**  
 Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**  
 Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: **SID14167-04** Survey ID: **SID14167**

Sample ID: **SID14167-04**  
 Survey ID: **SID14167**  
 Sample Date: **29-DEC-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **TILE, CELLULOSE**  
 Location: **7033 FIRST 02**

**Sample Detail**

2X4 Ceiling Tile, Fissure w/Pen Holes - NW Corner Above Two Drop Ceilings

**Sort Groups**

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**  
 Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**  
 Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC			

## SAMPLE DETAIL

Sample ID: SID14167-05 Survey ID: SID14167

Sample ID: **SID14167-05**  
 Survey ID: **SID14167**  
 Sample Date: **29-DEC-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **TILE, CELLULOSE**  
 Location: **7033 FIRST 02**

**Sample Detail**

2X4 Ceiling Tile, Fissure w/Pen Holes - NE Corner Above Two Drop Ceilings

**Sort Groups**

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**  
 Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**  
 Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC			

## SAMPLE DETAIL

Sample ID: SID14167-06 Survey ID: SID14167

Sample ID: **SID14167-06**  
 Survey ID: **SID14167**  
 Sample Date: **29-DEC-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **INSULATION, BATT**  
 Location: **7033 FIRST 02**

**Sample Detail**

Pink Fiberglass Batt Insulation - NW Corner Above Two Drop Ceilings

**Sort Groups**

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**  
 Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**  
 Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID14167-07 Survey ID: SID14167

Sample ID: **SID14167-07**  
 Survey ID: **SID14167**  
 Sample Date: **29-DEC-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **INSULATION, BATT**  
 Location: **7033 FIRST 02**

**Sample Detail**

Pink Fiberglass Batt Insulation - SW Corner Above Two Drop Ceilings

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

# SID14208 CHARACTERIZATION PHOTO Bldg 7033

Date: 01/14/2021

Photographer: Jeff Morris

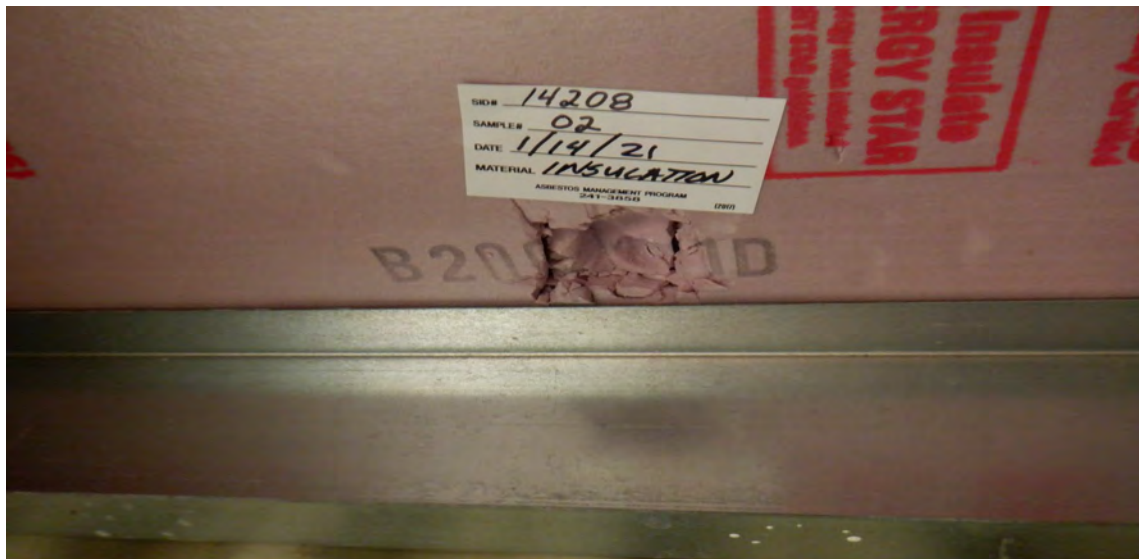
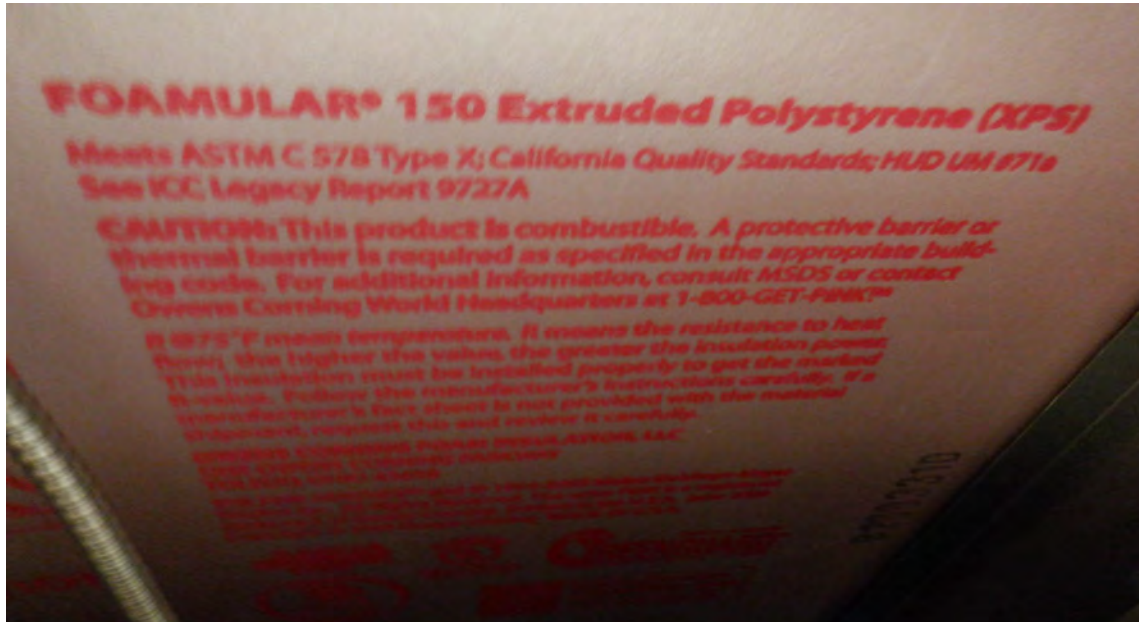


<b>HA Description</b>	Brown batting insulation
<b>Sample #</b>	SID14208-01
<b>Sample Location / Orientation</b>	SID14208-01 – Room 3 - Kitchen Brown batted insulation - SW corner above ceiling in south wall. REF -SID14064 – 25/26
<b>Sample/Inspection Results</b>	SID14208-01 - None Detected
<b>Recommendation</b>	None

# SID14208 CHARACTERIZATION PHOTO Bldg 7033

Date: 01/14/2021

Photographer: Jeff Morris

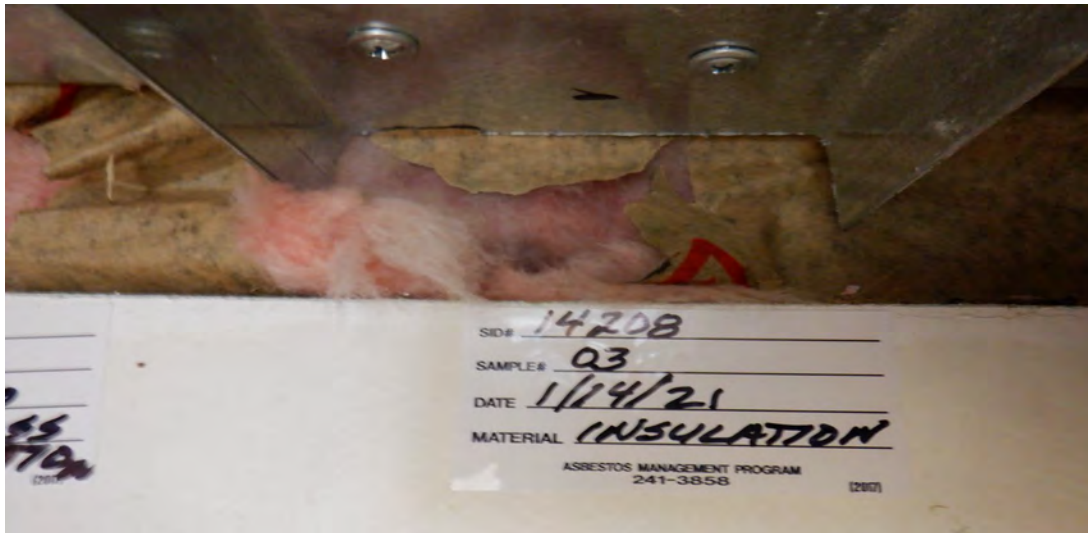
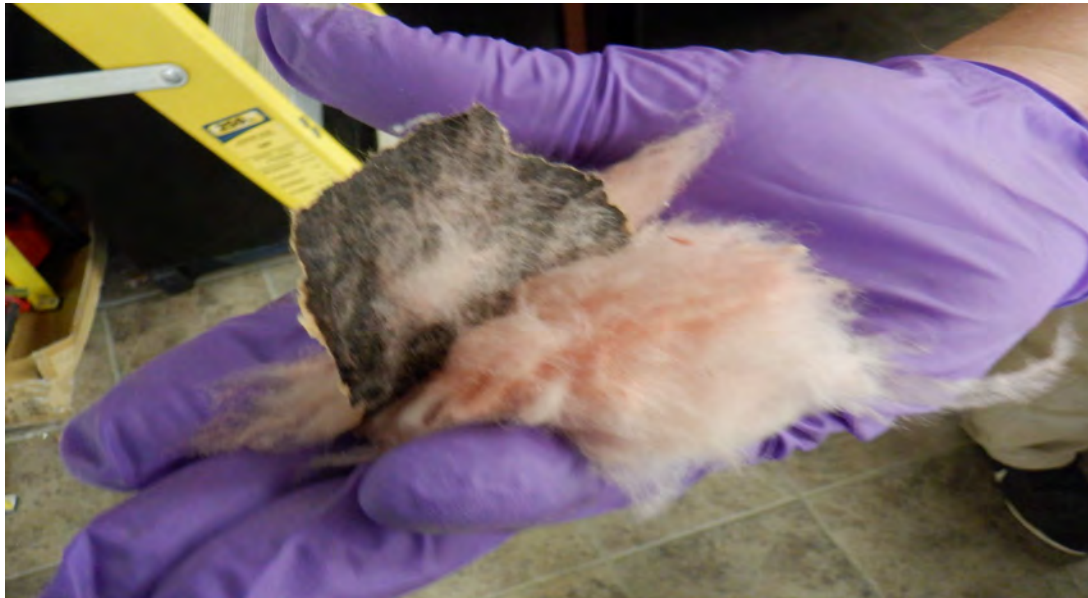


<b>HA Description</b>	Pink greenguard insulation board
<b>Sample #</b>	SID14208-02
<b>Sample Location / Orientation</b>	SID14208-02 – Room 3 (Kitchen) - Pink greenguard insulation board - SW corner above ceiling. SID14064-27/28
<b>Sample/Inspection Results</b>	SID14208-02 - None Detected
<b>Recommendation</b>	None

# SID14208 CHARACTERIZATION PHOTO Bldg 7033

Date: 01/14/2021

Photographer: Jeff Morris



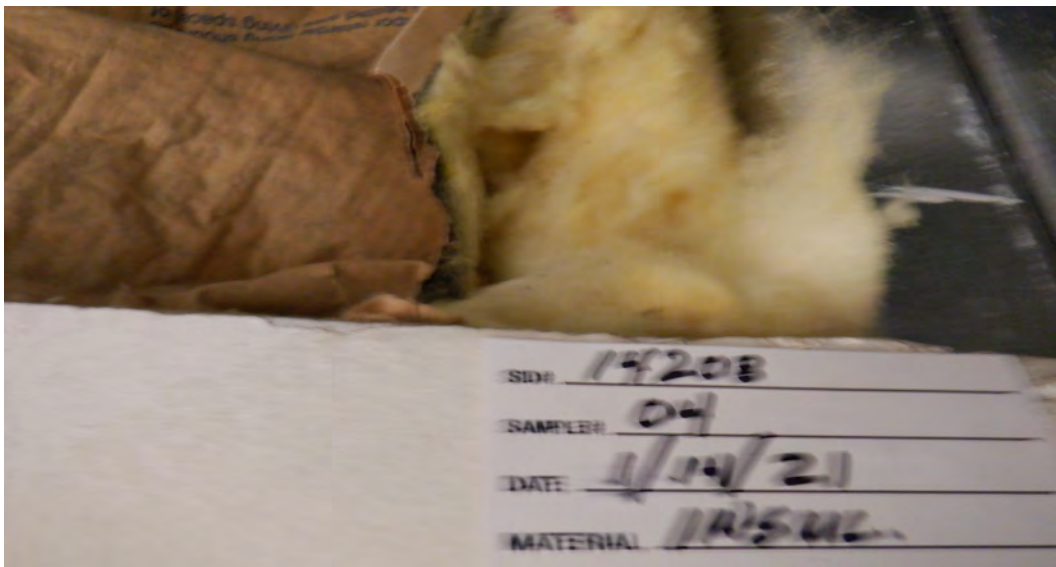
<b>HA Description</b>	Pink fiberglass batting insulation
<b>Sample #</b>	<b>SID14208-03</b>
<b>Sample Location / Orientation</b>	SID14208-03 – Room 3 (Kitchen) - Pink fiberglass insulation batting. SE corner above ceiling in west wall SID14064- 29/30
<b>Sample/Inspection Results</b>	SID14208-03 - None Detected
<b>Recommendation</b>	None



# SID14208 CHARACTERIZATION PHOTO Bldg 7033

Date: 01/14/2021

Photographer: Jeff Morris

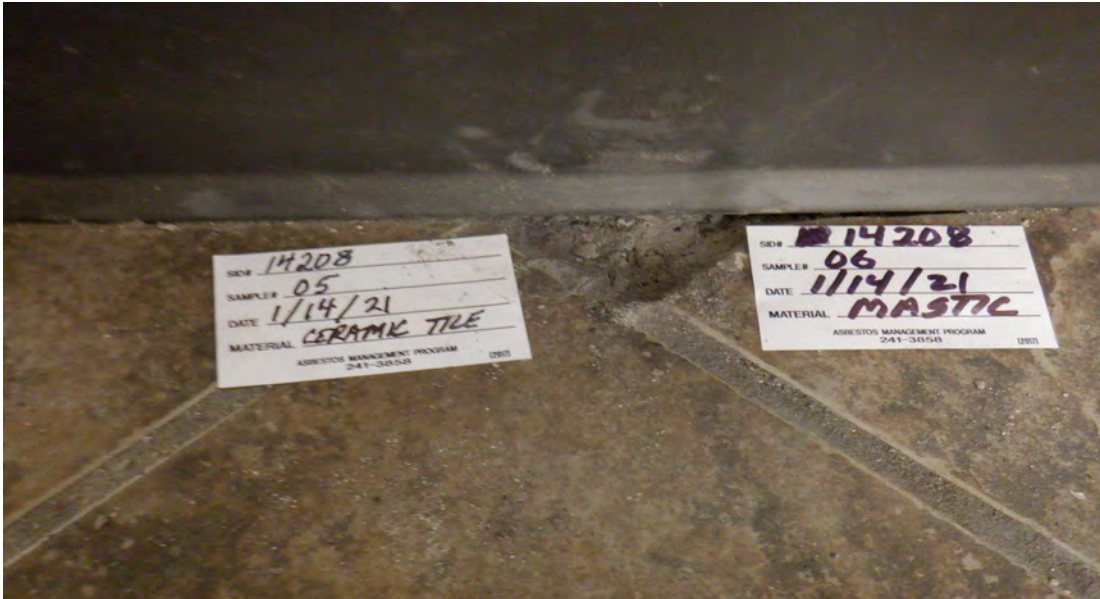


<b>HA Description</b>	Yellow fiberglass batting insulation
<b>Sample #</b>	SID14208-04
<b>Sample Location / Orientation</b>	SID14208-04 – Room 3 (Kitchen) Yellow fiberglass insulation batting. SE corner above ceiling in east wall. SID14064- 33/34
<b>Sample/Inspection Results</b>	SID14208-04 - None Detected
<b>Recommendation</b>	None

# SID14208 CHARACTERIZATION PHOTO Bldg 7033

Date: 01/14/2021

Photographer: Jeff Morris

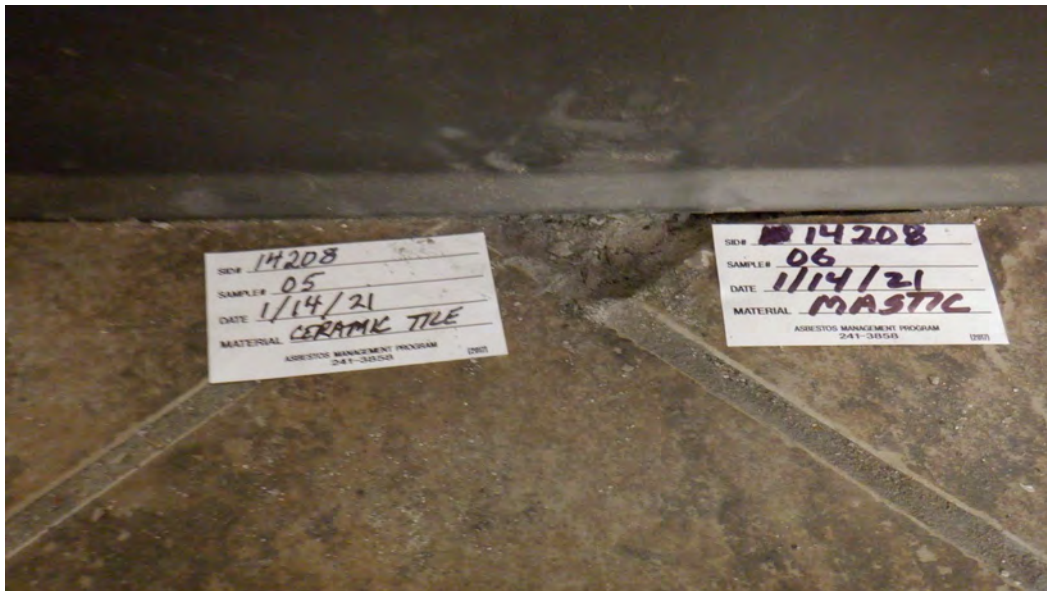


<b>HA Description</b>	12 x 12 tan/brown/black ceramic tile
<b>Sample #</b>	SID14208-05
<b>Sample Location / Orientation</b>	SID14208-05 – Change room. 12 x 12 Tan/brown/black ceramic floor tile - South side by wall, west of door. SID14064- 9/12
<b>Sample/Inspection Results</b>	SID14208-05 - None Detected
<b>Recommendation</b>	None

# SID14208 CHARACTERIZATION PHOTO Bldg 7033

Date: 01/14/2021

Photographer: Jeff Morris

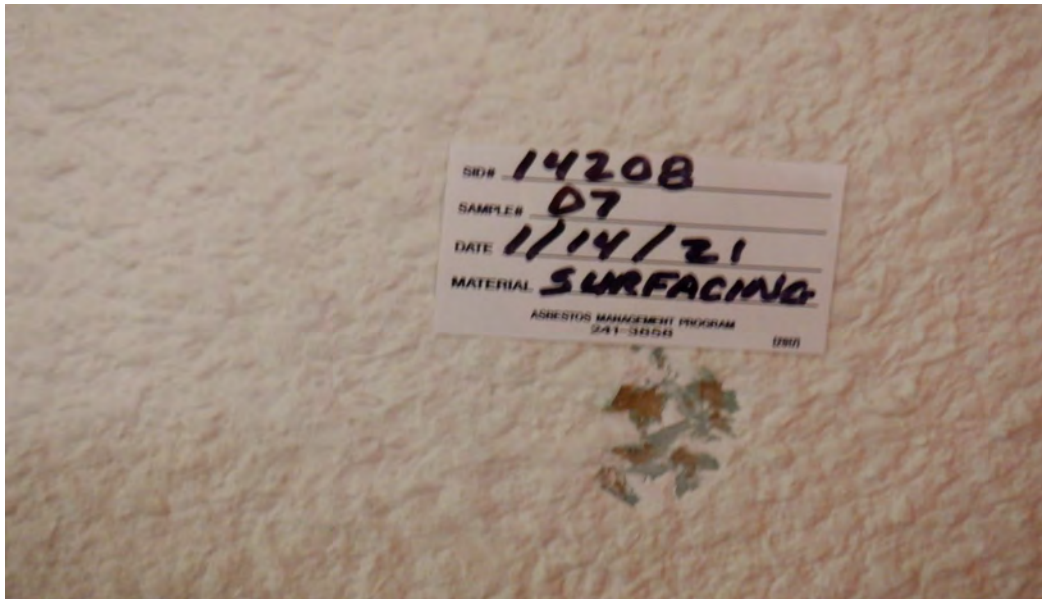


<b>HA Description</b>	Gray mastic under ceramic tile
<b>Sample #</b>	<b>SID14208-06</b>
<b>Sample Location / Orientation</b>	SID14208-06 – Change room. Gray mastic under ceramic floor tile(sample 05). South side by wall, west of door SID14064- 10/13
<b>Sample/Inspection Results</b>	SID14208-06 - None Detected
<b>Recommendation</b>	None

# SID14208 CHARACTERIZATION PHOTO Bldg 7033

Date: 01/14/2021

Photographer: Jeff Morris

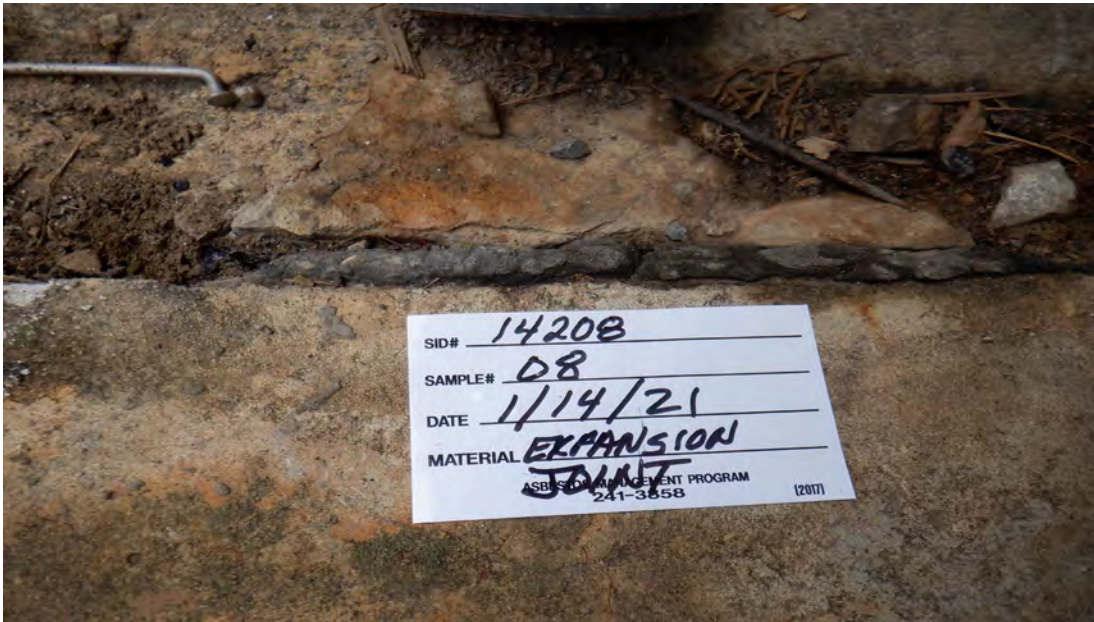


<b>HA Description</b>	White sprayed applied textured material
<b>Sample #</b>	SID14208-07
<b>Sample Location / Orientation</b>	SID14208-07 – Change room. White textured surfacing material - SW corner on west wall. SID14084-5/6
<b>Sample/Inspection Results</b>	SID14208-07 - None Detected
<b>Recommendation</b>	None

# SID14208 CHARACTERIZATION PHOTO Bldg 7033

Date: 01/14/2021

Photographer: Jeff Morris

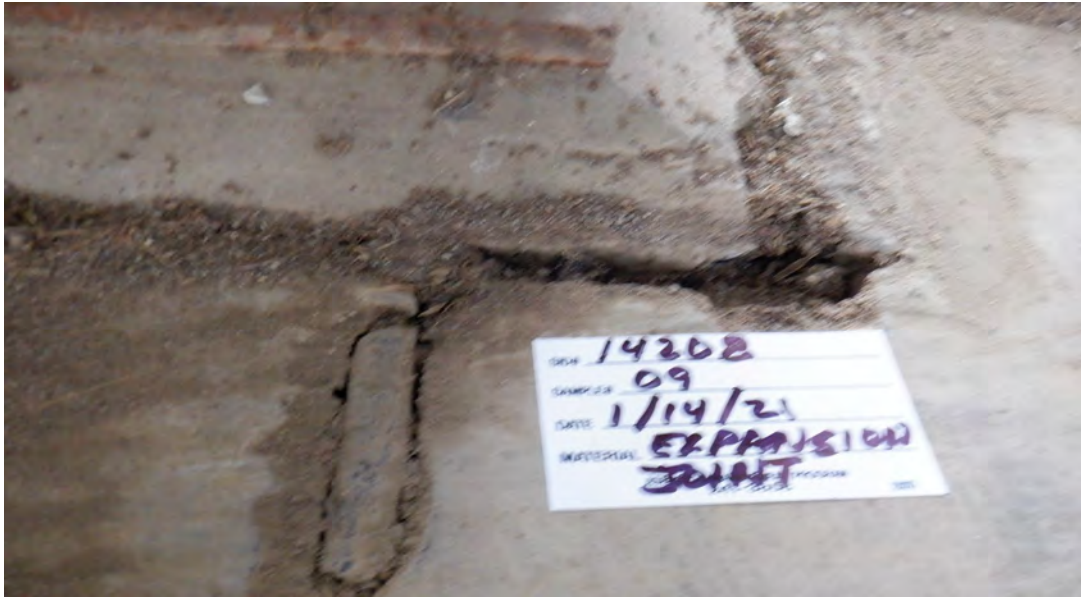


<b>HA Description</b>	Black tar expansion joint
<b>Sample #</b>	SID14208-08
<b>Sample Location / Orientation</b>	SID14208-08 – Bucket truck bay. Black tar expansion joint- South side of bay, center column
<b>Sample/Inspection Results</b>	SID14208-08 - None Detected
<b>Recommendation</b>	None

# SID14208 CHARACTERIZATION PHOTO Bldg 7033

Date: 01/14/2021

Photographer: Jeff Morris



<b>HA Description</b>	Black tar expansion joint
<b>Sample #</b>	SID14208-09
<b>Sample Location / Orientation</b>	SID14208-09 – Bucket truck bay. Black tar expansion joint - Center of bay, center column.
<b>Sample/Inspection Results</b>	SID14208-09 - None Detected
<b>Recommendation</b>	None

## Sample Survey Profile Report

### Survey Profile Report - Survey Coversheet

Survey ID: **SID14208**  
Status: **OPEN**  
Survey Title: **ASBESTOS BULK\_7033\_1/14/2021**  
Survey Date: **14-JAN-2021**  
Location: **7033**  
IH-Safety officer: **HANCOCK,JULIA (00034540)**  
Primary Sampler: **MORRIS,JEFFERY (00035404)**

### Request Description

#### Description of and Purpose for Sampling:

Sampling for Bldg 7033 for demolition is support for the CRSF demo. Results to Nilay Jhaveri, Wendell Ely and Aaron Hicks. This survey contains additional samples collected in order to meet the minimum requirements of the number of samples per material type.

Sample Rationale: **FACILITY CHARACTERIZATION**

Work Document Project Code: **3XD87SCH**

### Analytical Method

Sampling Matrix/Device: BULK MATERIAL

Sampling Method: ASBESTOS/IOP 01-12.01\_BULK

#### Description of Analysis Requested (for lab personnel)

Asbestos Bulk

### Survey Discussion

#### Discussion of Results, Expectations and History

Additional samples collected so supplement other surveys. Sample results for the batt insulation, insulation board, wall spray applied coating, ceramic tile, mastic, and expansion joints were all None Detected; therefore, no asbestos was seen during analysis.

See SID14064, 14084, 14099, and 14167 for complete characterization results.

Inspection revealed all rooms contained a corrugated metal roof and corrugated metal walls and all rooms contained concrete slabs either visible or beneath ceramic tile.

Room 2 north wall was wood, fiberglass behind external walls. Above ceiling was not inspected. The bucket truck hibay staging area had fiberglass behind walls that share inside rooms. Expansion joints was present and sampled. Room 3 had drywall which was sampled. Room 4, the south side storage area had expansion joints consisting of cutouts with no suspect materials to sample in the joints. Room 5, the locker/shower change room area, was added on in 2012. The north, south, and west walls were behind drywall and a metal ceiling was above the showers. Yellow fiberglass was seen in external walls and historic walls of hallway 02B area.

#### Recommendations to Workers and Management

No asbestos on this survey however, see SID14099 for asbestos wall filler materials; black tar and pink filler.

**Survey Attachments**

	Description of Attachment	Filename When Uploaded
<a href="#">View/Download</a>	SID14208 Asbestos characterization.pdf	SID14208 Asbestos characterization.pdf
<a href="#">View/Download</a>	FW Bldg 7033 Sampling email information.msg	FW Bldg 7033 Sampling email information.msg
<a href="#">View/Download</a>	SID14208 Sample Results	HancockSID14208.pdf
<a href="#">View/Download</a>	SID14208 Characterization Photo File FINAL	SID14208 Characterization Photo File 7033 FINAL.pdf

**Tracking**Sample Date (or start) **14-JAN-2021****Sample results list**

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
<a href="#">SID14208-01</a>	14-JAN-2021	BULK SAMPLING	INSULATION, BATTING		7033	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID14208-02</a>	14-JAN-2021	BULK SAMPLING	INSULATION, BOARD		7033	ASBESTOS - PLM	NONEDETECT	PERC	
<a href="#">SID14208-03</a>	14-JAN-2021	BULK SAMPLING	INSULATION, BATTING		7033	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID14208-04</a>	14-JAN-2021	BULK SAMPLING	INSULATION, BATTING		7033	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID14208-05</a>	14-JAN-2021	BULK SAMPLING	TILE, CERAMIC		7033	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID14208-06</a>	14-JAN-2021	BULK SAMPLING	MASTIC, FLOOR TILE		7033	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID14208-07</a>	14-JAN-2021	BULK SAMPLING	COATING,SPRAYAPPLIED		7033	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID14208-08</a>	14-JAN-2021	BULK SAMPLING	EXPANSION JOINT		7033	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID14208-09</a>	14-JAN-2021	BULK SAMPLING	EXPANSION JOINT		7033	ASBESTOS - PLM	NONEDETECT	PERC	1

**SAMPLE DETAIL****Sample ID: SID14208-01 Survey ID: SID14208**Sample ID: **SID14208-01**Survey ID: **SID14208**Sample Date: **14-JAN-2021**Assessment: **BULK SAMPLING**Result Type: **INSULATION, BATTING**Location: **7033****Sample Detail**

Room 3 - Kitchen Brown batted insulation - SW corner above ceiling in south wall. REF - SID14064 - 25/26

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50134269 FACILITIES MANAGEMENT DIVISION****Other**Operation Status: **ACTIVE**Area Category: **LUNCH/BREAK AREA**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

**Sample ID: SID14208-02 Survey ID: SID14208****SAMPLE DETAIL**



Sample ID: **SID14208-02**  
 Survey ID: **SID14208**  
 Sample Date: **14-JAN-2021**  
 Assessment: **BULK SAMPLING**  
 Result Type: **INSULATION, BOARD**  
 Location: **7033**

**Sample Detail**

Room 3 (Kitchen) - Pink greenguard insulation board - SW corner above ceiling. SID14064- 27/28

**Sort Groups**

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**  
 Org ID: **50000101 50133428 50133430 50134269 FACILITIES MANAGEMENT DIVISION**

**Other**

Operation Status: **ACTIVE**  
 Area Category: **LUNCH/BREAK AREA**  
 Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC			

## SAMPLE DETAIL

Sample ID: **SID14208-03** Survey ID: **SID14208**

Sample ID: **SID14208-03**  
 Survey ID: **SID14208**  
 Sample Date: **14-JAN-2021**  
 Assessment: **BULK SAMPLING**  
 Result Type: **INSULATION, BATTING**  
 Location: **7033**

**Sample Detail**

Room 3 (Kitchen) - Pink fiberglass insulation batting. SE corner above ceiling in west wall  
 SID14064- 29/30

**Sort Groups**

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**  
 Org ID: **50000101 50133428 50133430 50134269 FACILITIES MANAGEMENT DIVISION**

**Other**

Operation Status: **ACTIVE**  
 Area Category: **LUNCH/BREAK AREA**  
 Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: **SID14208-04** Survey ID: **SID14208**

Sample ID: **SID14208-04**  
 Survey ID: **SID14208**  
 Sample Date: **14-JAN-2021**  
 Assessment: **BULK SAMPLING**  
 Result Type: **INSULATION, BATTING**  
 Location: **7033**

**Sample Detail**

Room 3 (Kitchen) Yellow fiberglass insulation batting. SE corner above ceiling in east wall.  
SID14064- 33/34

**Sort Groups**

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**

Org ID: **50000101 50133428 50133430 50134269 FACILITIES MANAGEMENT DIVISION**

**Other**

Operation Status: **ACTIVE**

Area Category: **LUNCH/BREAK AREA**

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID14208-05 Survey ID: SID14208

Sample ID: **SID14208-05**

Survey ID: **SID14208**

Sample Date: **14-JAN-2021**

Assessment: **BULK SAMPLING**

Result Type: **TILE, CERAMIC**

Location: **7033**

**Sample Detail**

Change room. 12 x 12 Tan/brown/black ceramic floor tile - South side by wall, west of door.  
SID14064- 9/12

**Sort Groups**

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**

Org ID: **50000101 50133428 50133430 50134269 FACILITIES MANAGEMENT DIVISION**

**Other**

Operation Status: **ACTIVE**

Area Category: **LUNCH/BREAK AREA**

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID14208-06 Survey ID: SID14208

Sample ID: **SID14208-06**

Survey ID: **SID14208**

Sample Date: **14-JAN-2021**

Assessment: **BULK SAMPLING**

Result Type: **MASTIC, FLOOR TILE**

Location: **7033**

**Sample Detail**

Change room. Gray mastic under ceramic floor tile(sample 05). South side by wall, west of door  
SID14064- 10/13

**Sort Groups**

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**

Org ID: **50000101 50133428 50133430 50134269 FACILITIES MANAGEMENT DIVISION**

**Other**Operation Status: **ACTIVE**Area Category: **LUNCH/BREAK AREA**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID14208-07 Survey ID: SID14208

Sample ID: **SID14208-07**Survey ID: **SID14208**Sample Date: **14-JAN-2021**Assessment: **BULK SAMPLING**Result Type: **COATING,SPRAYAPPLIED**Location: **7033****Sample Detail**

Change room. White textured surfacing wall coating material - SW corner on west wall. SID14084-5/6

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50134269 FACILITIES MANAGEMENT DIVISION****Other**Operation Status: **ACTIVE**Area Category: **LUNCH/BREAK AREA**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID14208-08 Survey ID: SID14208

Sample ID: **SID14208-08**Survey ID: **SID14208**Sample Date: **14-JAN-2021**Assessment: **BULK SAMPLING**Result Type: **EXPANSION JOINT**Location: **7033****Sample Detail**

Bucket truck bay. Black tar expansion joint- South side of bay, center column

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50134269 FACILITIES MANAGEMENT DIVISION****Other**Operation Status: **ACTIVE**Area Category: **LUNCH/BREAK AREA**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

SAMPLE DETAIL

Sample ID: SID14208-09 Survey ID: SID14208

Sample ID: **SID14208-09**  
 Survey ID: **SID14208**  
 Sample Date: **14-JAN-2021**  
 Assessment: **BULK SAMPLING**  
 Result Type: **EXPANSION JOINT**  
 Location: **7033**

**Sample Detail**

Bucket truck bay. Black tar expansion joint - Center of bay, center column.

**Sort Groups**

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**  
 Org ID: **50000101 50133428 50133430 50134269 FACILITIES MANAGEMENT DIVISION**

**Other**

Operation Status: **ACTIVE**  
 Area Category: **LUNCH/BREAK AREA**  
 Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

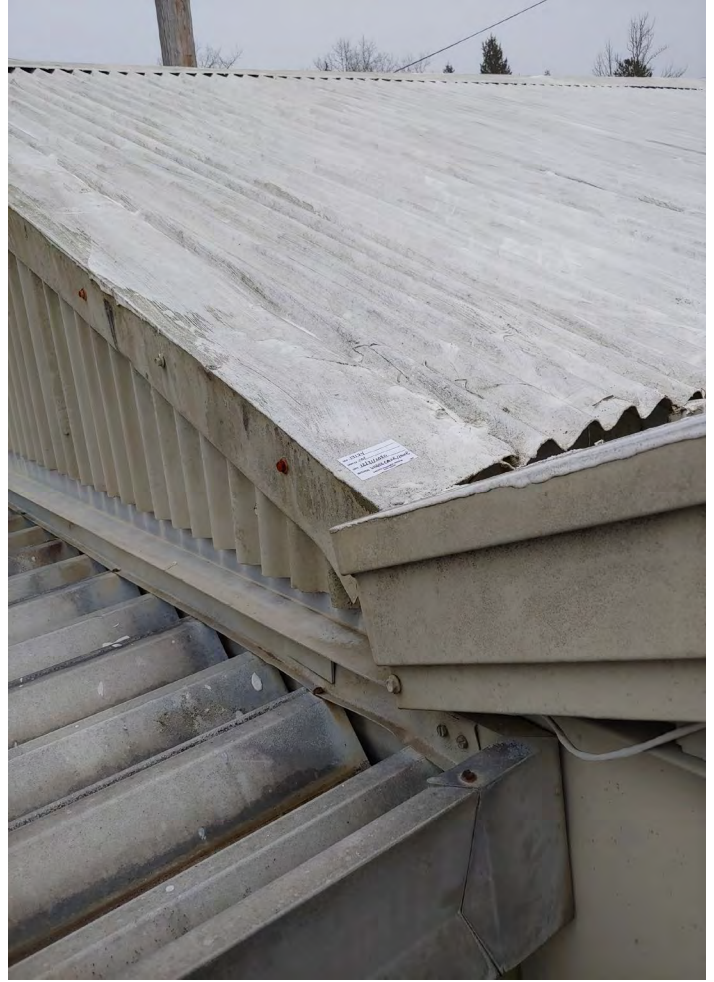
**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035 DEMOLITION PROJECT SID 14174

**Date: 12/31/2020**

**Inspector: Miranda Liner**



	<b>HA Description</b>	WHITE CAULK/PAINT/Roof Coating
	<b>Sample #</b>	<b>SID14174-01</b>
	<b>Sample Location / Orientation</b>	SID14174-01– Southwest corner of roof
	<b>Sample/Inspection Results</b>	SID13947-01 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035 DEMOLITION PROJECT SID 14174

**Date:** 12/31/2020

**Inspector:** Miranda Liner

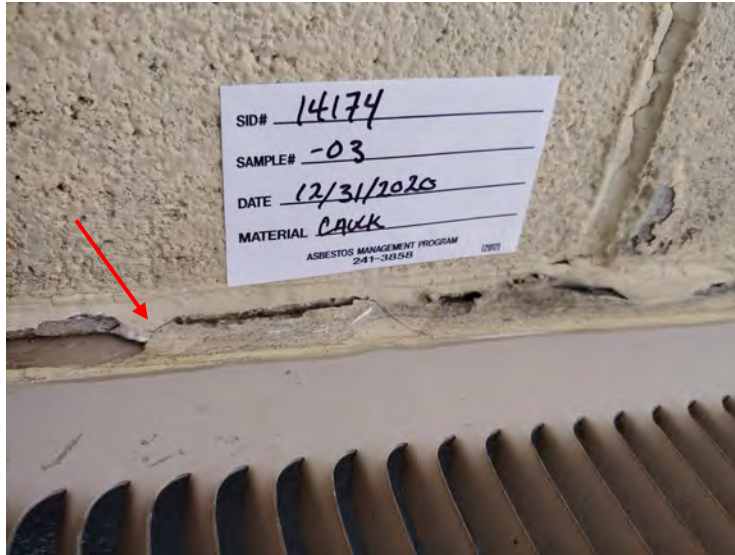


	<b>HA Description</b>	WHITE CAULK/PAINT/Roof Coating
	<b>Sample #</b>	<b>SID14174-02</b>
	<b>Sample Location / Orientation</b>	SID14174-02– Center of the south side of the roof
	<b>Sample/Inspection Results</b>	SID13947-02 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035 DEMOLITION PROJECT SID 14174

Date: 12/31/2020

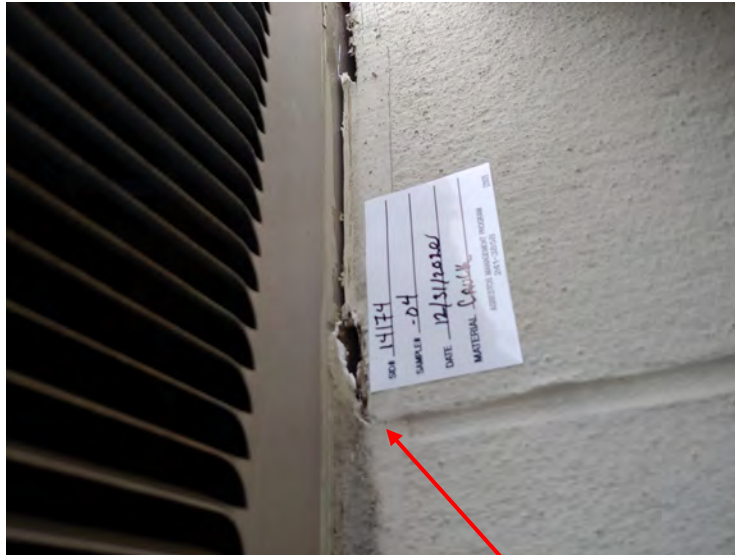
Inspector: Miranda Liner



	<b>HA Description</b>	WHITE/GRAY CAULK
	<b>Sample #</b>	<b>SID14174-03</b>
	<b>Sample Location / Orientation</b>	SID14174-03– North of AC unit (west side of 7035).
	<b>Sample/Inspection Results</b>	SID13947-03 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035 DEMOLITION PROJECT SID 14174

<b>Date:</b> 12/31/2020	<b>Inspector:</b> Miranda Liner
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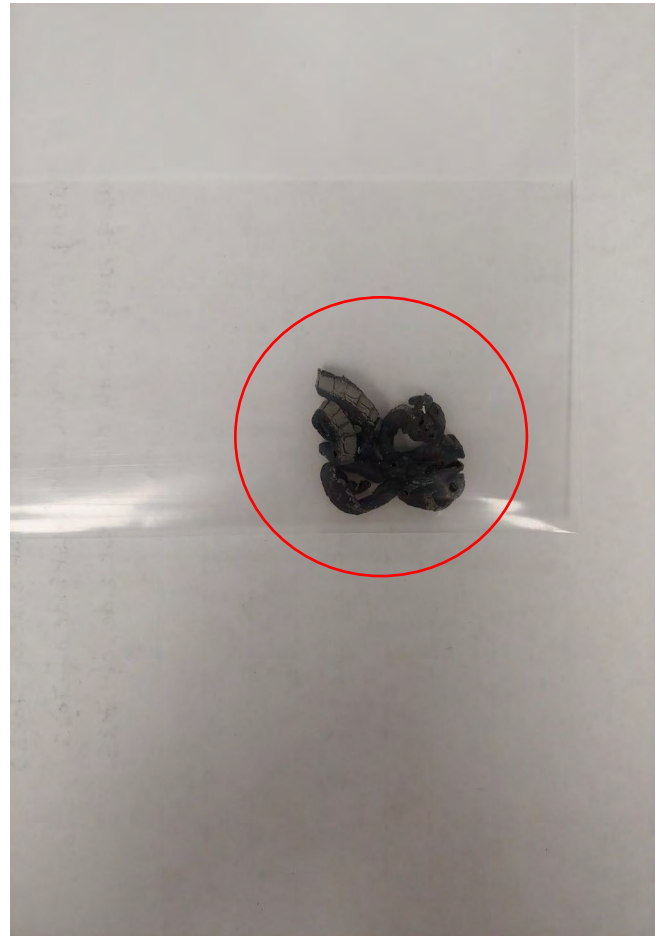
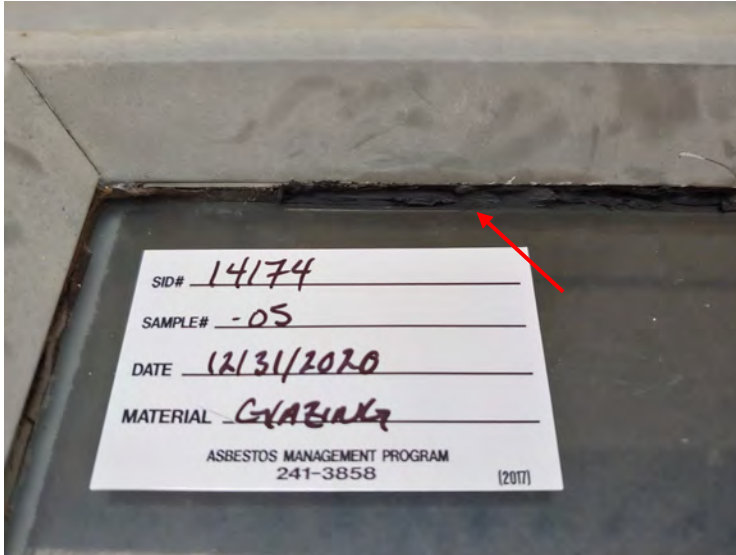
	<b>HA Description</b>	WHITE/GRAY CAULK
	<b>Sample #</b>	<b>SID14174-04</b>
	<b>Sample Location / Orientation</b>	SID14174-04– South of AC unit (west side of 7035).
	<b>Sample/Inspection Results</b>	SID13947-04 – None Detected
	<b>Recommendation</b>	None



# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035 DEMOLITION PROJECT SID 14174

Date: 12/31/2020

Inspector: Miranda Liner

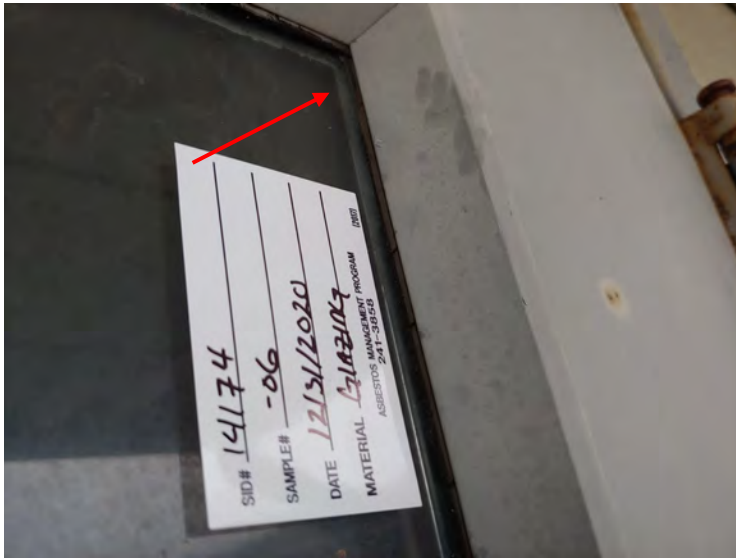


	<b>HA Description</b>	BLACK WINDOW GLAZING/CAULK
	<b>Sample #</b>	SID14174-05
	<b>Sample Location / Orientation</b>	SID14174-05– North door, west side of 7035.
	<b>Sample/Inspection Results</b>	SID13947-05 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035 DEMOLITION PROJECT SID 14174

Date: 12/31/2020

Inspector: Miranda Liner



	<b>HA Description</b>	BLACK WINDOW GLAZING/CAULK
	<b>Sample #</b>	SID14174-06
	<b>Sample Location / Orientation</b>	SID14174-06– South door, west side of 7035.
	<b>Sample/Inspection Results</b>	SID13947-06 – None Detected
	<b>Recommendation</b>	None

## Sample Survey Profile Report

### Survey Profile Report - Survey Coversheet

Survey ID: **SID14174**  
 Status: **OPEN**  
 Survey Title: **ASBESTOS\_BULK\_7035\_EXTERIOR\_12/31/2020**  
 Survey Date **31-DEC-2020**  
 Location: **7035**  
 IH-Safety officer: **HANCOCK,JULIA (00034540)**  
 Primary Sampler: **LINER,MIRANDA (03084423)**

### Request Description

#### Description of and Purpose for Sampling:

Determine the presence of asbestos fibers in building materials of 7035's exterior. Survey supports building characterization prior to demolition. No request form provided at the time of sampling.

#### Description of Sample Equipment and Placement While Sampling:

See attachment for sample locations.

#### Description of Sampling Method:

Bulk sampling.

Sample Rationale: **FACILITY CHARACTERIZATION**

Work Document Project Code: **3xd87sch**

### Analytical Method

Sampling Matrix/Device: BULK MATERIAL

Sampling Method: ASBESTOS/IOP 01-12.01\_BULK

#### Description of Analysis Requested (for lab personnel)

Asbestos PLM - Bulk Material

### Survey Discussion

#### Discussion of Results, Expectations and History

Samples for the exterior suspect materials include caulking materials, window glazing/caulking, and roof caulking/paint/coating materials for which all results were None Detected; therefore, no asbestos was seen during analysis.

Inspection revealed exterior materials for the roof as metal and walls were concrete/block walls with mortar.

#### Recommendations to Workers and Management

None, no asbestos present.

### Survey Attachments

	Description of Attachment	Filename When Uploaded

<a href="#">View/Download</a>	7035 Inspection Form, Building Exterior	7035 Inspection Form, Building Exterior.pdf
<a href="#">View/Download</a>	SID14174 Sample Log	SID14174 Sample Log.pdf
<a href="#">View/Download</a>	SID14174 Sample Plan	Bldg 7035 Suite Sample Plan REV1.docx
<a href="#">View/Download</a>	SID14174 Sample Request Form	Sampling Request SID XXX Bldg 7035 Suite Facilities.docx
<a href="#">View/Download</a>	SID14174 Sample Results	HancockSID14174.pdf
<a href="#">View/Download</a>	SID14174 Characterization Photo File FINAL	SID14174_Characterization Photo File_Bldg 7035 Exterior FINAL.pdf

## Tracking

Sample Date (or start) **31-DEC-2020**Sent to Lab **05-JAN-2021**

## Sample results list

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
<a href="#">SID14174-01</a>	31-DEC-2020	BULK SAMPLING	ROOF COATING		7035	ASBESTOS - PLM	NONEDETECT	PERC	
<a href="#">SID14174-02</a>	31-DEC-2020	BULK SAMPLING	ROOF COATING		7035	ASBESTOS - PLM	NONEDETECT	PERC	
<a href="#">SID14174-03</a>	31-DEC-2020	BULK SAMPLING	CAULKING NOT WINDOWS		7035	ASBESTOS - PLM	NONEDETECT	PERC	
<a href="#">SID14174-04</a>	31-DEC-2020	BULK SAMPLING	CAULKING NOT WINDOWS		7035	ASBESTOS - PLM	NONEDETECT	PERC	
<a href="#">SID14174-05</a>	31-DEC-2020	BULK SAMPLING	WINDOW CAULKING		7035	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID14174-06</a>	31-DEC-2020	BULK SAMPLING	WINDOW CAULKING		7035	ASBESTOS - PLM	NONEDETECT	PERC	1

## SAMPLE DETAIL

Sample ID: **SID14174-01** Survey ID: **SID14174**Sample ID: **SID14174-01**Survey ID: **SID14174**Sample Date: **31-DEC-2020**Assessment: **BULK SAMPLING**Result Type: **ROOF COATING**Location: **7035**

## Sample Detail

White caulk/paint/Roof Coating, south west corner of the roof.

## Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL**

## Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC			

## SAMPLE DETAIL

Sample ID: **SID14174-02** Survey ID: **SID14174**Sample ID: **SID14174-02**Survey ID: **SID14174**Sample Date: **31-DEC-2020**Assessment: **BULK SAMPLING**Result Type: **ROOF COATING**Location: **7035**

## Sample Detail

White caulk/paint/Roof Coating, center of south side of the roof.

**Sort Groups**

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC			

## SAMPLE DETAIL

Sample ID: **SID14174-03** Survey ID: **SID14174**

Sample ID: **SID14174-03**

Survey ID: **SID14174**

Sample Date: **31-DEC-2020**

Assessment: **BULK SAMPLING**

Result Type: **CAULKING NOT WINDOWS**

Location: **7035**

**Sample Detail**

White/gray caulk, north of AC unit (west side of 7035).

**Sort Groups**

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC			

## SAMPLE DETAIL

Sample ID: **SID14174-04** Survey ID: **SID14174**

Sample ID: **SID14174-04**

Survey ID: **SID14174**

Sample Date: **31-DEC-2020**

Assessment: **BULK SAMPLING**

Result Type: **CAULKING NOT WINDOWS**

Location: **7035**

**Sample Detail**

White/gray caulk, south of AC unit (west side of 7035).

**Sort Groups**

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC			

## SAMPLE DETAIL

Sample ID: **SID14174-05** Survey ID: **SID14174**

Sample ID: **SID14174-05**

Survey ID: **SID14174**

Sample Date: **31-DEC-2020**

Assessment: **BULK SAMPLING**

Result Type: **WINDOW CAULKING**

Location: **7035****Sample Detail**

Black window glazing/caulking. Located on the north door, west side of 7035.

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: **SID14174-06** Survey ID: **SID14174**Sample ID: **SID14174-06**Survey ID: **SID14174**Sample Date: **31-DEC-2020**Assessment: **BULK SAMPLING**Result Type: **WINDOW CAULKING**Location: **7035****Sample Detail**

Black window glazing/caulking. Located on the south door, west side of 7035.

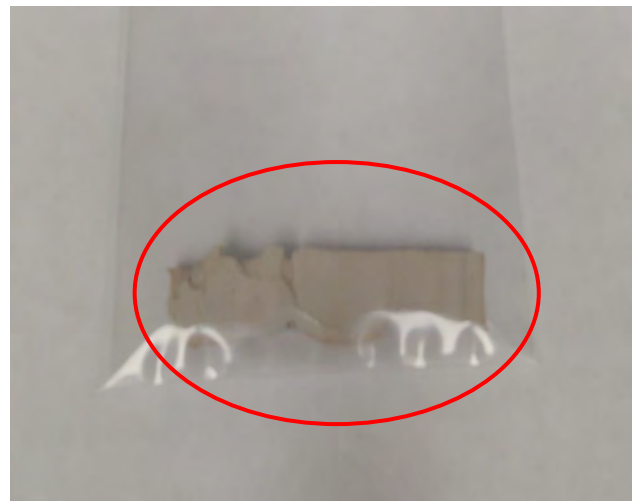
**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONDETECT	PERC		1	OSHA

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035 DEMOLITION PROJECT SID 14200

**Date: 01/13/2021**

**Inspector: Miranda Liner**

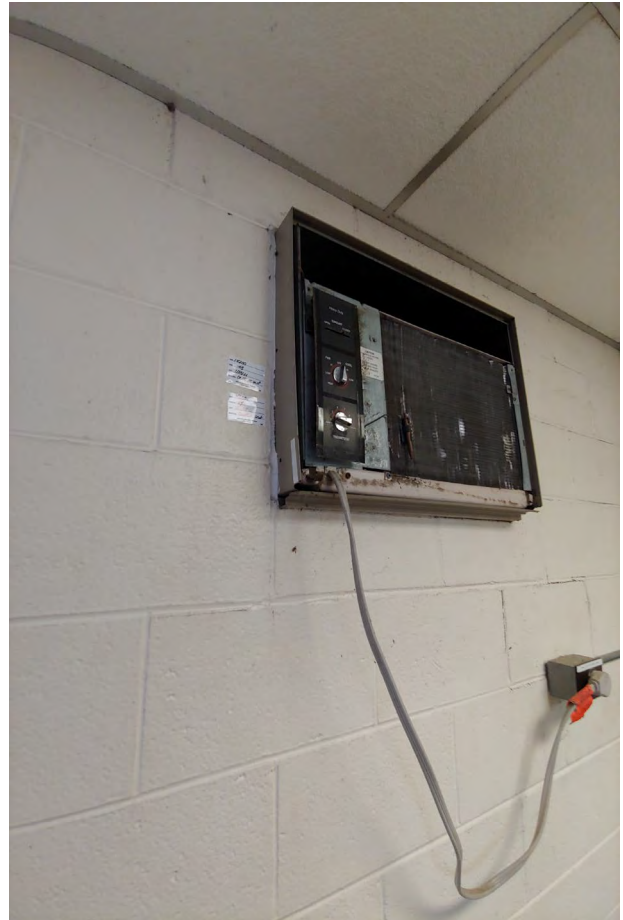


	<b>HA Description</b>	GUNMETAL GRAY CAULK
	<b>Sample #</b>	<b>SID14200-01</b> <b>SID14200-02</b>
	<b>Sample Location / Orientation</b>	SID14200-01– Center enclosure, above door south side SID14200-02 – Center enclosure, above door north side
	<b>Sample/Inspection Results</b>	SID14200-01 – None Detected SID14200-02 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035 DEMOLITION PROJECT SID 14200

**Date: 01/13/2021**

**Inspector: Miranda Liner**



	<b>HA Description</b>	WHITE CAULK AROUND AC UNIT
	<b>Sample #</b>	<b>SID14200-03</b> <b>SID14200-04</b>
	<b>Sample Location / Orientation</b>	SID14200-03– Interior west wall by door SID14200-04 – Interior west wall by door
	<b>Sample/Inspection Results</b>	SID14200-03 – None Detected SID14200-04 – None Detected
	<b>Recommendation</b>	None



# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035 DEMOLITION PROJECT SID 14200

**Date: 01/13/2021**

**Inspector: Miranda Liner**



	<b>HA Description</b>	CLEAR SILICONE CAULK
	<b>Sample #</b>	SID14200-05 SID14200-06
	<b>Sample Location / Orientation</b>	SID14200-05– West side of interior enclosure SID14200-06– West side of interior enclosure
	<b>Sample/Inspection Results</b>	SID14200-05 – None Detected SID14200-06 – None Detected
	<b>Recommendation</b>	None

## Sample Survey Profile Report

### Survey Profile Report - Survey Coversheet

Survey ID: **SID14200**  
 Status: **OPEN**  
 Survey Title: **ASBESTOS\_BULK\_7035\_INTERIOR\_01/13/2021**  
 Survey Date **13-JAN-2021**  
 Location: **7035**  
 IH-Safety officer: **HANCOCK,JULIA (00034540)**  
 Primary Sampler: **LINER,MIRANDA (03084423)**

### Request Description

#### Description of and Purpose for Sampling:

Determine the presence of asbestos fibers in building material from the interior of 7035. Survey supports the CRSF Buildings Demolition project for Excess Facilities. Asbestos samples taken from the exterior of the building are included in SID14174. Results to Wendell Ely and Aaron Hicks.

#### Description of Sample Equipment and Placement While Sampling:

See attached for sample locations.

#### Description of Sampling Method:

Bulk Sampling.

Sample Rationale: **FACILITY CHARACTERIZATION**

Work Document Project Code: **3xd87sch**

### Analytical Method

Sampling Matrix/Device: BULK MATERIAL

Sampling Method: ASBESTOS/IOP 01-12.01\_BULK

#### Description of Analysis Requested (for lab personnel)

Asbestos PLM - Bulk Analysis

### Survey Discussion

#### Discussion of Results, Expectations and History

Samples for the interior suspect caulking materials were all None Detected; therefore no asbestos was seen during analysis.

Inspection revealed concrete block and mortar walls interior walls with plastic wall panel walls of the enclosure, concrete floors with no expansion joints, and no pipe insulation materials seen.

#### Recommendations to Workers and Management

None, no asbestos present.

### Survey Attachments

	Description of Attachment	Filename When Uploaded

<a href="#">View/Download</a>	SID14200 Sample Plan	Bldg 7035 Suite Sample Plan REV1.docx
<a href="#">View/Download</a>	SID14200 Sample Request Form	Sampling Request SID XXX Bldg 7035 Suite Facilities.docx
<a href="#">View/Download</a>	SID14200 Sample Log	SID14200 Sample Log.pdf
<a href="#">View/Download</a>	7035 Building Inspection Form Interior	7035 Inspection Form, Building Interior.pdf
<a href="#">View/Download</a>	SID14200 Sample Results	HancockSID14200.pdf
<a href="#">View/Download</a>	SID14200 Characterization Photo File FINAL	SID14200_Characterization Photo File_Bldg 7035 FINAL.pdf

## Tracking

Sample Date (or start) **13-JAN-2021**Sent to Lab **14-JAN-2021**

## Sample results list

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
<a href="#">SID14200-01</a>	13-JAN-2021	BULK SAMPLING	CAULKING NOT WINDOWS		7035	ASBESTOS - PLM	NONEDETECT	PERC	
<a href="#">SID14200-02</a>	13-JAN-2021	BULK SAMPLING	CAULKING NOT WINDOWS		7035	ASBESTOS - PLM	NONEDETECT	PERC	
<a href="#">SID14200-03</a>	13-JAN-2021	BULK SAMPLING	CAULKING NOT WINDOWS		7035	ASBESTOS - PLM	NONEDETECT	PERC	
<a href="#">SID14200-04</a>	13-JAN-2021	BULK SAMPLING	CAULKING NOT WINDOWS		7035	ASBESTOS - PLM	NONEDETECT	PERC	
<a href="#">SID14200-05</a>	13-JAN-2021	BULK SAMPLING	CAULKING NOT WINDOWS		7035	ASBESTOS - PLM	NONEDETECT	PERC	
<a href="#">SID14200-06</a>	13-JAN-2021	BULK SAMPLING	CAULKING NOT WINDOWS		7035	ASBESTOS - PLM	NONEDETECT	PERC	

## SAMPLE DETAIL

Sample ID: **SID14200-01** Survey ID: **SID14200**Sample ID: **SID14200-01**Survey ID: **SID14200**Sample Date: **13-JAN-2021**Assessment: **BULK SAMPLING**Result Type: **CAULKING NOT WINDOWS**Location: **7035**

## Sample Detail

Gunmetal Gray Caulk. Located in the center of room enclosure, above the door (south side of door frame).)

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL**

## Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC			

## SAMPLE DETAIL

Sample ID: **SID14200-02** Survey ID: **SID14200**Sample ID: **SID14200-02**Survey ID: **SID14200**Sample Date: **13-JAN-2021**Assessment: **BULK SAMPLING**Result Type: **CAULKING NOT WINDOWS**Location: **7035**

## Sample Detail

Gunmetal Gray Caulk. Located in the center of room enclosure, above the door (north side of door frame).

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC			

## SAMPLE DETAIL

Sample ID: **SID14200-03** Survey ID: **SID14200**Sample ID: **SID14200-03**Survey ID: **SID14200**Sample Date: **13-JAN-2021**Assessment: **BULK SAMPLING**Result Type: **CAULKING NOT WINDOWS**Location: **7035****Sample Detail**

White Caulk (AC). Around the Ac unit on interior, west wall by the door.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC			

## SAMPLE DETAIL

Sample ID: **SID14200-04** Survey ID: **SID14200**Sample ID: **SID14200-04**Survey ID: **SID14200**Sample Date: **13-JAN-2021**Assessment: **BULK SAMPLING**Result Type: **CAULKING NOT WINDOWS**Location: **7035****Sample Detail**

White Caulk (AC). Around the Ac unit on interior, west wall by the door.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC			

## SAMPLE DETAIL

Sample ID: **SID14200-05** Survey ID: **SID14200**Sample ID: **SID14200-05**Survey ID: **SID14200**Sample Date: **13-JAN-2021**Assessment: **BULK SAMPLING**Result Type: **CAULKING NOT WINDOWS**Location: **7035****Sample Detail**

Clear, Silicone Caulk. Located on the northwest side of the interior enclosure.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC			

## SAMPLE DETAIL

Sample ID: SID14200-06 Survey ID: SID14200

Sample ID: **SID14200-06**

Survey ID: **SID14200**

Sample Date: **13-JAN-2021**

Assessment: **BULK SAMPLING**

Result Type: **CAULKING NOT WINDOWS**

Location: **7035**

#### Sample Detail

Clear, Silicone Caulk. Located on the northwest side of the interior enclosure.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

#### Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC			

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035A DEMOLITION PROJECT SID 13955

**Date: 10/12/2020**

**Inspector: Carson Vick**



	<b>HA Description</b>	WHITE FIBERGLASS INSULATION
	<b>Sample #</b>	<b>SID13955-01</b> <b>SID13955-02</b>
	<b>Sample Location / Orientation</b>	SID13955-01– Above ceiling, north side SID13955-02 – Above ceiling, north side
	<b>Sample/Inspection Results</b>	SID13955-01 – None Detected SID13955-02 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035A DEMOLITION PROJECT SID 13955

**Date:** 10/12/2020

**Inspector:** Carson Vick



	<b>HA Description</b>	YELLOW FIBERGLASS INSULATION
	<b>Sample #</b>	SID13955-03 SID13955-04
	<b>Sample Location / Orientation</b>	SID13955-03– Above ceiling, north side SID13955-04 – Above ceiling, west side
	<b>Sample/Inspection Results</b>	SID13955-03 – None Detected SID13955-04 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035A DEMOLITION PROJECT SID 13955

**Date: 10/12/2020**

**Inspector: Carson Vick**



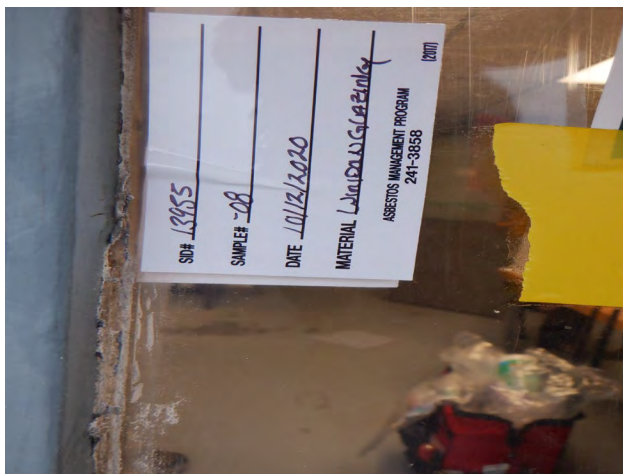
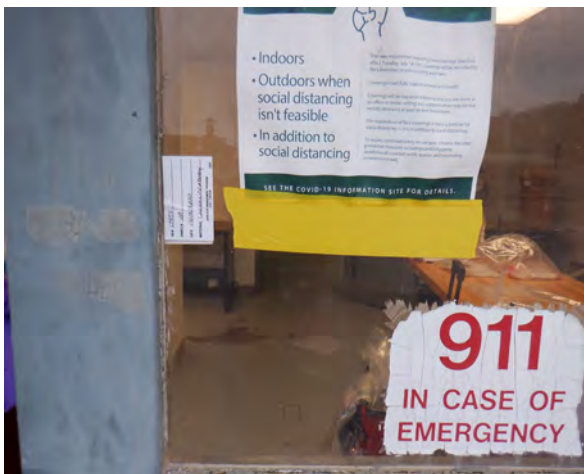
	<b>HA Description</b>	YELLOW FIBERGLASS INSULATION W/ ALUMINUM BACKING
	<b>Sample #</b>	<b>SID13955-05</b> <b>SID13955-06</b>
	<b>Sample Location / Orientation</b>	SID13955-05– Above ceiling, east side SID13955-06 – Above ceiling, west side
	<b>Sample/Inspection Results</b>	SID13955-05 – None Detected SID13955-06 – None Detected
	<b>Recommendation</b>	None



# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035A DEMOLITION PROJECT SID 13955

**Date: 10/12/2020**

**Inspector: Carson Vick**



	<b>HA Description</b>	WHITE WINDOW GLAZING
	<b>Sample #</b>	SID13955-07 SID13955-08
	<b>Sample Location / Orientation</b>	SID13955-07– Interior door, west side SID13955-08 – Exterior door, west side.
	<b>Sample/Inspection Results</b>	SID13955-07 – None Detected SID13955-08 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035A DEMOLITION PROJECT SID 13955

**Date: 10/12/2020**

**Inspector: Carson Vick**

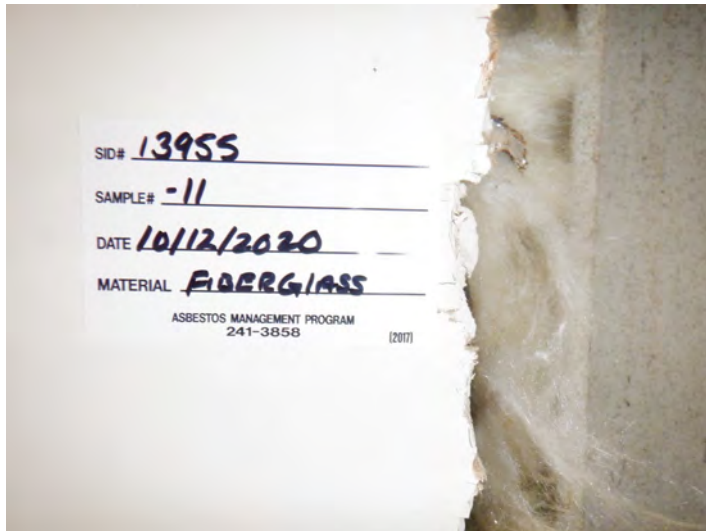


	<b>HA Description</b>	GRAY CAULKING
	<b>Sample #</b>	<b>SID13955-09</b> <b>SID13955-10</b>
	<b>Sample Location / Orientation</b>	SID13955-09– Over door, west side SID13955-10 – Over door, west side
	<b>Sample/Inspection Results</b>	SID13955-09 – None Detected SID13955-10 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035A DEMOLITION PROJECT SID 13955

**Date: 10/12/2020**

**Inspector: Carson Vick**



	<b>HA Description</b>	WHITE FIBERGLASS INSULATION W/ ALUMINUM BACKING
	<b>Sample #</b>	SID13955-11
	<b>Sample Location / Orientation</b>	SID13955-11– Inside north facing wall.
	<b>Sample/Inspection Results</b>	SID13955-11 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035A DEMOLITION PROJECT SID 13955

Date: 10/12/2020

Inspector: Carson Vick

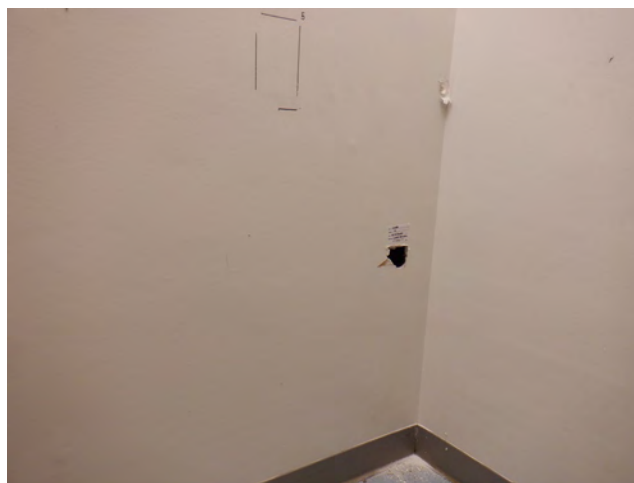
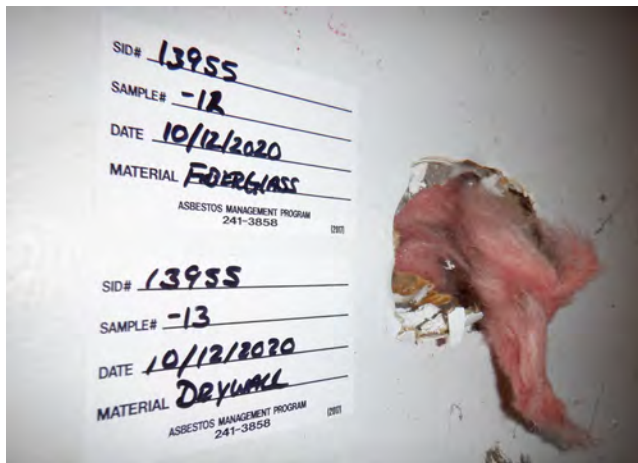


	<b>HA Description</b>	PINK FIBERGLASS INSULATION W/ ALUMINUM BACKING
	<b>Sample #</b>	SID13955-12
	<b>Sample Location / Orientation</b>	SID13955-12– Inside dividing wall of east room.
	<b>Sample/Inspection Results</b>	SID13955-12 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035A DEMOLITION PROJECT SID 13955

**Date: 10/12/2020**

**Inspector: Bekkah Massaro**

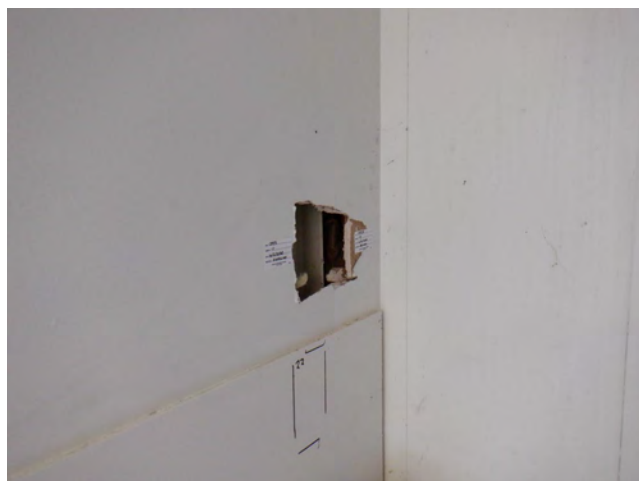
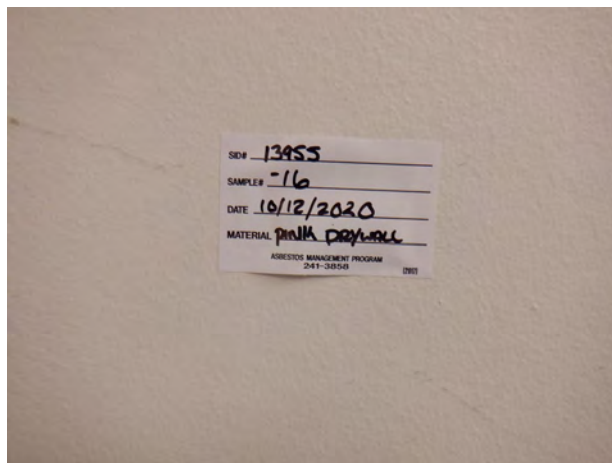


	<b>HA Description</b>	WHITE DRYWALL
	<b>Sample #</b>	SID13955-13 SID13955-15
	<b>Sample Location / Orientation</b>	SID13955-13– Inside dividing wall of east room SID13955-15 – Interior wall of northwest side
	<b>Sample/Inspection Results</b>	SID13955-13 – None Detected SID13955-15 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035A DEMOLITION PROJECT SID 13955

**Date: 10/12/2020**

**Inspector: Bekkah Massaro**

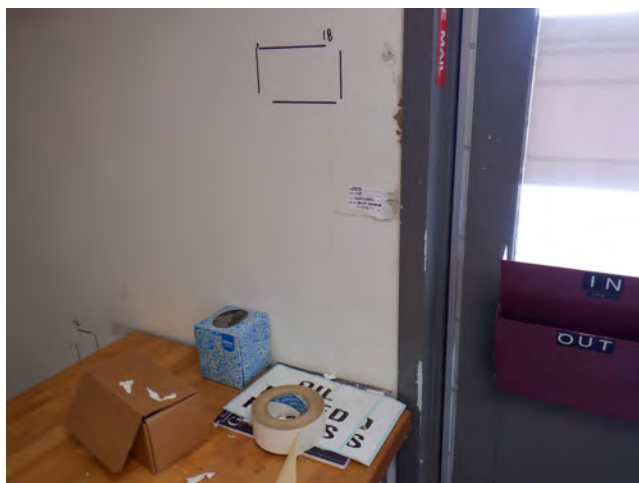
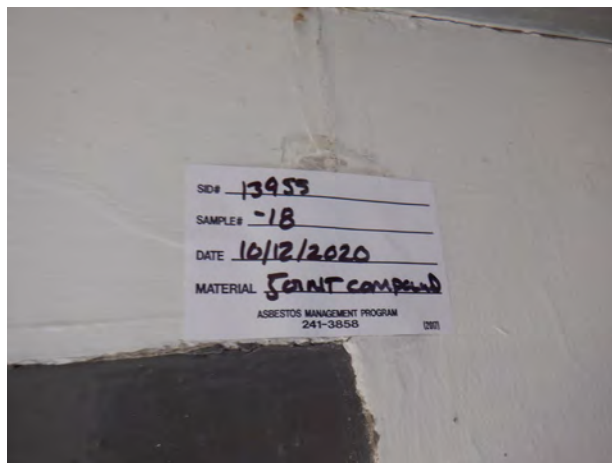
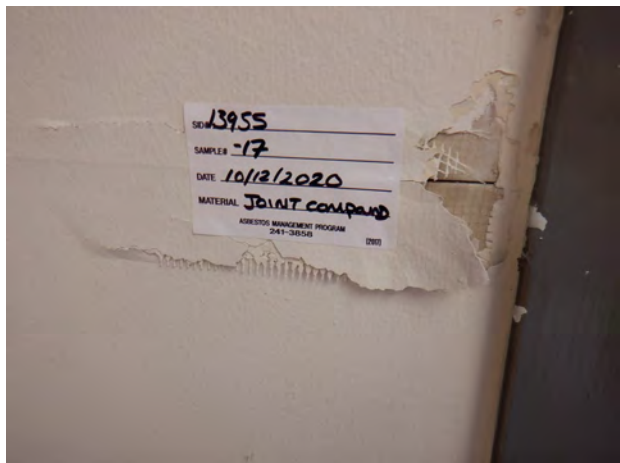


	<b>HA Description</b>	PINK DRYWALL
	<b>Sample #</b>	SID13955-14 SID13955-16
	<b>Sample Location / Orientation</b>	SID13955-14 – North wall SID13955-16 – West wall by door.
	<b>Sample/Inspection Results</b>	SID13955-14 – None Detected SID13955-16 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035A DEMOLITION PROJECT SID 13955

**Date: 10/12/2020**

**Inspector: Carson Vick**

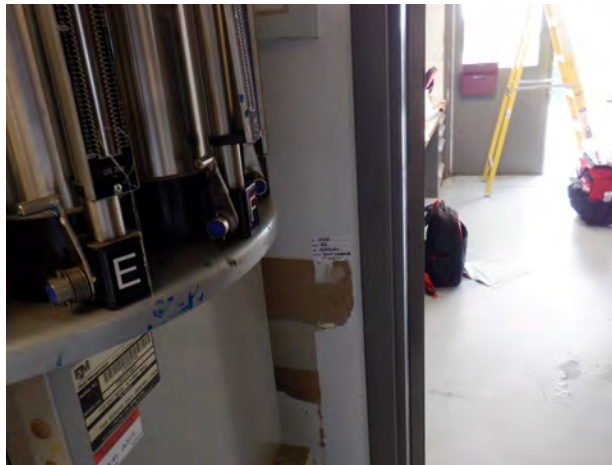
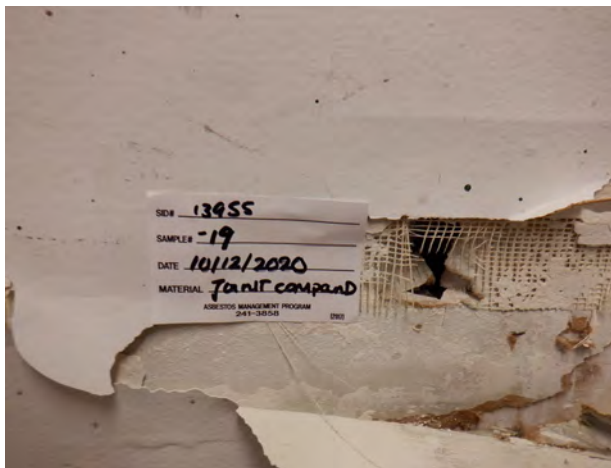


	<b>HA Description</b>	JOINT COMPOUND ASSOCIATED W/ PINK DRYWALL
	<b>Sample #</b>	SID13955-17 SID13955-18
	<b>Sample Location / Orientation</b>	SID13955-17 – West wall by door SID13955-18 – Northwest wall over door
	<b>Sample/Inspection Results</b>	SID13955-17 – None Detected SID13955-18 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035A DEMOLITION PROJECT SID 13955

**Date: 10/12/2020**

**Inspector: Carson Vick/Bekkah Massaro**



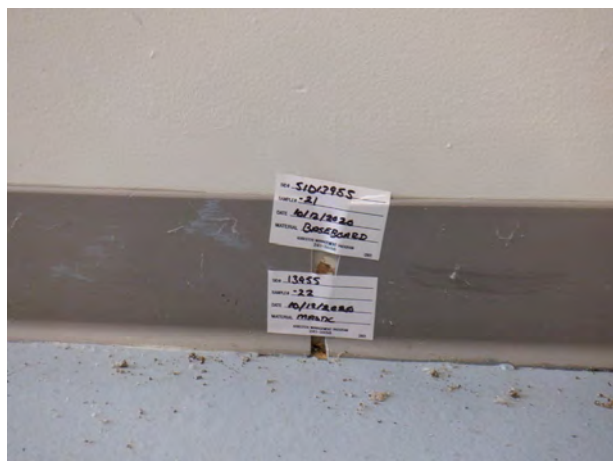
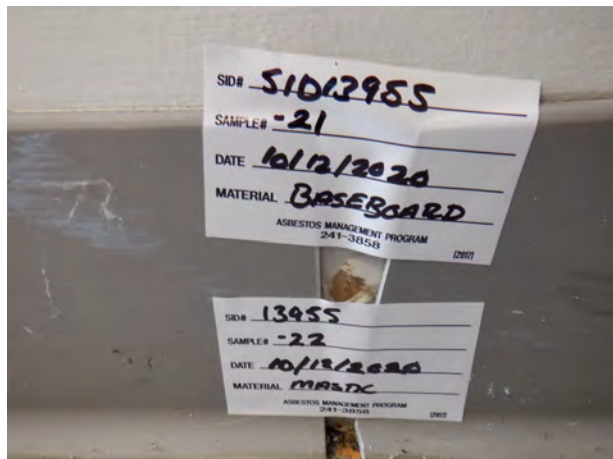
	<b>HA Description</b>	JOINT COMPOUND ASSOCIATED W/ WHITE DRYWALL
	<b>Sample #</b>	SID13955-19 SID13955-20
	<b>Sample Location / Orientation</b>	SID13955-19 – South wall, east room SID13955-20 – East dividing wall
	<b>Sample/Inspection Results</b>	SID13955-19 – None Detected SID13955-20 – None Detected
	<b>Recommendation</b>	None



# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035A DEMOLITION PROJECT SID 13955

Date: 10/12/2020

Inspector: Bekkah Massaro

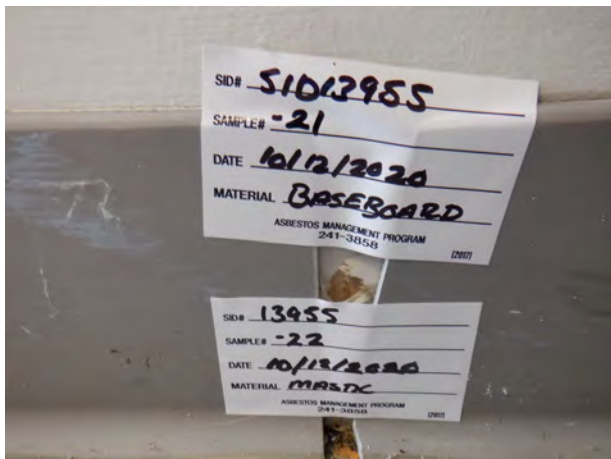


	<b>HA Description</b>	GRAY BASEBOARD
	<b>Sample #</b>	SID13955-21 SID13955-23
	<b>Sample Location / Orientation</b>	SID13955-21 – North dividing wall SID13955-23 – North facing wall
	<b>Sample/Inspection Results</b>	SID13955-21 – None Detected SID13955-23 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035A DEMOLITION PROJECT SID 13955

Date: 10/12/2020

Inspector: Bekkah Massaro



	<b>HA Description</b>	MASTIC ASSOCIATED W/ GRAY BASEBOARD
	<b>Sample #</b>	SID13955-22 SID13955-24
	<b>Sample Location / Orientation</b>	SID13955-22 – North dividing wall SID13955-24 – North facing wall
	<b>Sample/Inspection Results</b>	SID13955-22 – None Detected SID13955-24 – None Detected
	<b>Recommendation</b>	None

**CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035A  
DEMOLITION PROJECT  
SID 13955**

**Date: 10/12/2020**

**Inspector: Bekkah Massaro**

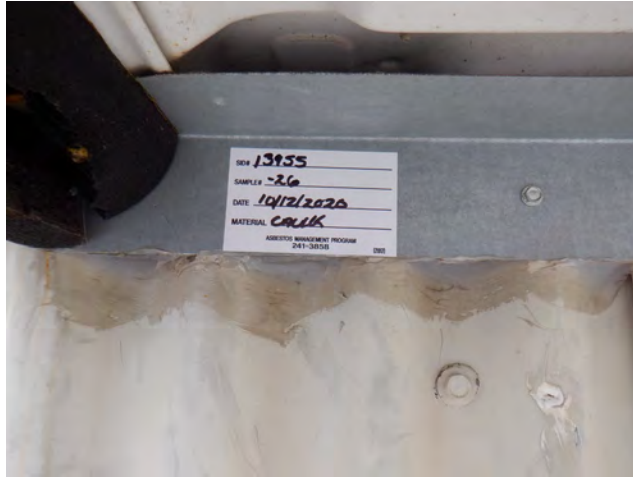


	<b>HA Description</b>	WHITE ROOF CAULKING/Coating
	<b>Sample #</b>	<b>SID13955-25</b>
	<b>Sample Location / Orientation</b>	SID13955-25 – South side exterior
	<b>Sample/Inspection Results</b>	SID13955-25 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035A DEMOLITION PROJECT SID 13955

**Date: 10/12/2020**

**Inspector: Bekkah Massaro**



	<b>HA Description</b>	GRAY CAULK
	<b>Sample #</b>	<b>SID13955-26</b>
	<b>Sample Location / Orientation</b>	SID13955-26 – Around west side AC unit
	<b>Sample/Inspection Results</b>	SID13955-26 – None Detected
	<b>Recommendation</b>	None

## Sample Survey Profile Report

### Survey Profile Report - Survey Coversheet

Survey ID: **SID13955**  
Status: **OPEN**  
Survey Title: **ASBESTOS\_BULK\_BLDG\_7035A\_SUITE  
DEMO\_10/12/2020**  
Survey Date **12-OCT-2020**  
Location: **7035A**  
IH-Safety officer: **HANCOCK,JULIA (00034540)**  
Primary Sampler: **VICK,CARSON (03026158)**

### Request Description

#### Description of and Purpose for Sampling:

Sampling for Bldg 7035 Suite (7035A, 7035B, 7035C, 7035E, 7035F) for demolition in support of the CRSF demo. Results to Nilay Jhaveri, Wendell Ely and Aaron Hicks.

#### Description of Sample Equipment and Placement While Sampling:

See attachment for sample details.

#### Description of Sampling Method:

Bulk Sampling.

Sample Rationale: **FACILITY CHARACTERIZATION**

### Analytical Method

Sampling Matrix/Device: BULK MATERIAL

Sampling Method: ASBESTOS/IOP 01-12.01\_BULK

#### Description of Analysis Requested (for lab personnel)

Asbestos PLM

### Survey Discussion

#### Discussion of Results, Expectations and History

Asbestos bulk sample results for suspect materials consisting of baseboard, baseboard mastic, drywall, joint compound, window glazing, caulking, ceiling and wall insulation materials were all None Detected; therefore, no asbestos was seen during analysis.

Inspection was performed and the painters shed has fiberglass ceiling tile on the west side and styrofoam ceiling tile on the east side and possible transite on the north wall (32x8ft). Inspectors were unable to access behind the metal panels and possible transite one east wall of the east room. Roof is corrugated metal, suspended ceiling tiles were fiberglass and styrofoam (non-suspect materials for asbestos therefore not sampled). Transite is known to contain asbestos and since inaccessible it was not sampled and must be treated as ACM. See SID14201 for additional samples.

#### Recommendations to Workers and Management

Treat transite walls as ACM.

### Survey Attachments

	Description of Attachment	Filename When Uploaded
<a href="#">View/Download</a>	SID13955 Sample Plan	Bldg 7035 Suite Sample Plan REV1.docx
<a href="#">View/Download</a>	SID13955 Sample Request Form	Sampling Request SIDXXX Bldg 7035 Suite Facilities.docx
<a href="#">View/Download</a>	SID13955 Asbestos Inspection Form	SID13955 Asbestos Inspection Form.pdf
<a href="#">View/Download</a>	SID13955 7035A Field Notes Sample Log.pdf	SID13955 7035A Field Notes Sample Log.pdf
<a href="#">View/Download</a>	HA List for 7035A_7035B_7035C (1977) Demolition.docx	HA List for 7035A_7035B_7035C (1977) Demolition.docx
<a href="#">View/Download</a>	SID13955 Sample Results	HancockSID13955.pdf
<a href="#">View/Download</a>	SID13955 Characterization Photo File FINAL	SID13955_Characterization Photo File_Bldg 7035A - FINAL.pdf

## Tracking

Sample Date (or start) **12-OCT-2020**

## Sample results list

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
<a href="#">SID13955-01</a>	12-OCT-2020	BULK SAMPLING	INSULATION, BATT		7035A	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13955-02</a>	12-OCT-2020	BULK SAMPLING	INSULATION, BATT		7035A	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13955-03</a>	12-OCT-2020	BULK SAMPLING	INSULATION, BATT		7035A	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13955-04</a>	12-OCT-2020	BULK SAMPLING	INSULATION, BATT		7035A	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13955-05</a>	12-OCT-2020	BULK SAMPLING	INSULATION, BATT		7035A	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13955-06</a>	12-OCT-2020	BULK SAMPLING	INSULATION, BATT		7035A	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13955-07</a>	12-OCT-2020	BULK SAMPLING	WINDOW GLAZING		7035A	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13955-08</a>	12-OCT-2020	BULK SAMPLING	WINDOW GLAZING		7035A	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13955-09</a>	12-OCT-2020	BULK SAMPLING	CAULKING NOT WINDOWS		7035A	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13955-10</a>	12-OCT-2020	BULK SAMPLING	CAULKING NOT WINDOWS		7035A	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13955-11</a>	12-OCT-2020	BULK SAMPLING	INSULATION, BATT		7035A	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13955-12</a>	12-OCT-2020	BULK SAMPLING	INSULATION, BATT		7035A	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13955-13</a>	12-OCT-2020	BULK SAMPLING	DRYWALL		7035A	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13955-14</a>	12-OCT-2020	BULK SAMPLING	DRYWALL		7035A	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13955-15</a>	12-OCT-2020	BULK SAMPLING	DRYWALL		7035A	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13955-16</a>	12-OCT-2020	BULK SAMPLING	DRYWALL		7035A	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13955-17</a>	12-OCT-2020	BULK SAMPLING	JOINT COMPOUND		7035A	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13955-18</a>	12-OCT-2020	BULK SAMPLING	JOINT COMPOUND		7035A	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13955-19</a>	12-OCT-2020	BULK SAMPLING	JOINT COMPOUND		7035A	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13955-20</a>	12-OCT-2020	BULK SAMPLING	JOINT COMPOUND		7035A	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13955-21</a>	12-OCT-2020	BULK SAMPLING	BASEBOARD		7035A	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13955-22</a>	12-OCT-2020	BULK SAMPLING	MASTIC, BASEBOARD		7035A	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13955-23</a>	12-OCT-2020	BULK SAMPLING	BASEBOARD		7035A	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13955-24</a>	12-OCT-2020	BULK SAMPLING	MASTIC, BASEBOARD		7035A	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13955-25</a>	12-OCT-2020	BULK SAMPLING	ROOF COATING		7035A	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13955-26</a>	12-OCT-2020	BULK SAMPLING	CAULKING NOT WINDOWS		7035A	ASBESTOS - PLM	NONEDETECT	PERC	1

## SAMPLE DETAIL

Sample ID: SID13955-01 Survey ID: SID13955

Sample ID: **SID13955-01**Survey ID: **SID13955**Sample Date: **12-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **INSULATION, BATT**Location: **7035A****Sample Detail**

White fiberglass batt insulation. Above ceiling on north side.

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE****Other**Operation Status: **ACTIVE**Area Category: **STORAGE**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

**Sample Discussion**

Sample Comments

HA-01

## SAMPLE DETAIL

Sample ID: SID13955-02 Survey ID: SID13955

Sample ID: **SID13955-02**Survey ID: **SID13955**Sample Date: **12-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **INSULATION, BATT**Location: **7035A****Sample Detail**

White fiberglass batt insulation. Above ceiling on north side.

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE****Other**Operation Status: **ACTIVE**Area Category: **STORAGE**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

**Sample Discussion**

Sample Comments

HA-01

## SAMPLE DETAIL

Sample ID: SID13955-03 Survey ID: SID13955

Sample ID: **SID13955-03**  
 Survey ID: **SID13955**  
 Sample Date: **12-OCT-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **INSULATION, BATT**  
 Location: **7035A**

#### Sample Detail

Yellow fiberglass batt insulation. Above ceiling on north side.

#### Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**

#### Other

Operation Status: **ACTIVE**  
 Area Category: **STORAGE**  
 Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

#### Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDTECT	PERC		1	OSHA

#### Sample Discussion

Sample Comments

HA-02

#### SAMPLE DETAIL

Sample ID: **SID13955-04** Survey ID: **SID13955**

Sample ID: **SID13955-04**  
 Survey ID: **SID13955**  
 Sample Date: **12-OCT-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **INSULATION, BATT**  
 Location: **7035A**

#### Sample Detail

Yellow fiberglass batt insulation. Above ceiling on west side.

#### Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**

#### Other

Operation Status: **ACTIVE**  
 Area Category: **STORAGE**  
 Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

#### Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDTECT	PERC		1	OSHA

#### Sample Discussion

Sample Comments

HA-02

#### SAMPLE DETAIL

Sample ID: **SID13955-05** Survey ID: **SID13955**

Sample ID: **SID13955-05**  
 Survey ID: **SID13955**



Sample Date: **12-OCT-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **INSULATION, BATT**  
 Location: **7035A**

**Sample Detail**

Yellow fiberglass batt insulation w/ aluminum backing. Above ceiling, east side.

**Sort Groups**

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**

**Other**

Operation Status: **ACTIVE**  
 Area Category: **STORAGE**  
 Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONDETECT	PERC		1	OSHA

**Sample Discussion**

Sample Comments

HA-03

## SAMPLE DETAIL

Sample ID: **SID13955-06** Survey ID: **SID13955**

Sample ID: **SID13955-06**  
 Survey ID: **SID13955**  
 Sample Date: **12-OCT-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **INSULATION, BATT**  
 Location: **7035A**

**Sample Detail**

Yellow fiberglass batt insulation w/ aluminum backing. Above ceiling, east side.

**Sort Groups**

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**

**Other**

Operation Status: **ACTIVE**  
 Area Category: **STORAGE**  
 Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONDETECT	PERC		1	OSHA

**Sample Discussion**

Sample Comments

HA-03

## SAMPLE DETAIL

Sample ID: **SID13955-07** Survey ID: **SID13955**

Sample ID: **SID13955-07**  
 Survey ID: **SID13955**  
 Sample Date: **12-OCT-2020**  
 Assessment: **BULK SAMPLING**

Result Type: **WINDOW GLAZING**Location: **7035A****Sample Detail**

White window glazing. Interior door on west side.

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE****Other**Operation Status: **ACTIVE**Area Category: **STORAGE**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

**Sample Discussion**

Sample Comments

HA-04

## SAMPLE DETAIL

**Sample ID: SID13955-08 Survey ID: SID13955**Sample ID: **SID13955-08**Survey ID: **SID13955**Sample Date: **12-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **WINDOW GLAZING**Location: **7035A****Sample Detail**

White window glazing. Exterior door on west side.

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE****Other**Operation Status: **ACTIVE**Area Category: **STORAGE**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

**Sample Discussion**

Sample Comments

HA-04

## SAMPLE DETAIL

**Sample ID: SID13955-09 Survey ID: SID13955**Sample ID: **SID13955-09**Survey ID: **SID13955**Sample Date: **12-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **CAULKING NOT WINDOWS**Location: **7035A**

**Sample Detail**

Gray caulk over door.

**Sort Groups**

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**

**Other**

Operation Status: **ACTIVE**

Area Category: **STORAGE**

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

**Sample Discussion**

Sample Comments

HA-05

SAMPLE DETAIL

**Sample ID: SID13955-10 Survey ID: SID13955**

Sample ID: **SID13955-10**

Survey ID: **SID13955**

Sample Date: **12-OCT-2020**

Assessment: **BULK SAMPLING**

Result Type: **CAULKING NOT WINDOWS**

Location: **7035A**

**Sample Detail**

Gray caulk over door.

**Sort Groups**

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**

**Other**

Operation Status: **ACTIVE**

Area Category: **STORAGE**

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

**Sample Discussion**

Sample Comments

HA-05

SAMPLE DETAIL

**Sample ID: SID13955-11 Survey ID: SID13955**

Sample ID: **SID13955-11**

Survey ID: **SID13955**

Sample Date: **12-OCT-2020**

Assessment: **BULK SAMPLING**

Result Type: **INSULATION, BATT**

Location: **7035A**

**Sample Detail**

White fiberglass with aluminum backing. Located on interior north wall.

#### Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**

#### Other

Operation Status: **ACTIVE**

Area Category: **STORAGE**

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

#### Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

#### Sample Discussion

Sample Comments

HA-06

#### SAMPLE DETAIL

Sample ID: **SID13955-12** Survey ID: **SID13955**

Sample ID: **SID13955-12**

Survey ID: **SID13955**

Sample Date: **12-OCT-2020**

Assessment: **BULK SAMPLING**

Result Type: **INSULATION, BATT**

Location: **7035A**

#### Sample Detail

Pink fiberglass with aluminum backing. Located inside dividing wall of east room.

#### Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**

#### Other

Operation Status: **ACTIVE**

Area Category: **STORAGE**

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

#### Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

#### Sample Discussion

Sample Comments

HA-07

#### SAMPLE DETAIL

Sample ID: **SID13955-13** Survey ID: **SID13955**

Sample ID: **SID13955-13**

Survey ID: **SID13955**

Sample Date: **12-OCT-2020**

Assessment: **BULK SAMPLING**

Result Type: **DRYWALL**

Location: **7035A**

#### Sample Detail

White drywall sheets. Located on interior dividing wall.

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE****Other**Operation Status: **ACTIVE**Area Category: **STORAGE**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

**Sample Discussion**

Sample Comments

HA-08

## SAMPLE DETAIL

Sample ID: **SID13955-14** Survey ID: **SID13955**Sample ID: **SID13955-14**Survey ID: **SID13955**Sample Date: **12-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **DRYWALL**Location: **7035A****Sample Detail**

Pink drywall sheets. Located on the north facing wall.

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE****Other**Operation Status: **ACTIVE**Area Category: **STORAGE**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

**Sample Discussion**

Sample Comments

HA-09

## SAMPLE DETAIL

Sample ID: **SID13955-15** Survey ID: **SID13955**Sample ID: **SID13955-15**Survey ID: **SID13955**Sample Date: **12-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **DRYWALL**Location: **7035A****Sample Detail**

White drywall sheets. Located on the northwest wall.

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**

**Other**Operation Status: **ACTIVE**Area Category: **STORAGE**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

**Sample Discussion**

Sample Comments

HA-08

## SAMPLE DETAIL

Sample ID: SID13955-16 Survey ID: SID13955

Sample ID: **SID13955-16**Survey ID: **SID13955**Sample Date: **12-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **DRYWALL**Location: **7035A****Sample Detail**

Pink drywall sheets. Located on the west wall by door.

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE****Other**Operation Status: **ACTIVE**Area Category: **STORAGE**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

**Sample Discussion**

Sample Comments

HA-09

## SAMPLE DETAIL

Sample ID: SID13955-17 Survey ID: SID13955

Sample ID: **SID13955-17**Survey ID: **SID13955**Sample Date: **12-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **JOINT COMPOUND**Location: **7035A****Sample Detail**

Joint compound associated with pink drywall HA-09. Located on west wall by door.

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE****Other**Operation Status: **ACTIVE**

Area Category: **STORAGE**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

**Sample Discussion**

Sample Comments

HA-10

## SAMPLE DETAIL

Sample ID: SID13955-18 Survey ID: SID13955

Sample ID: **SID13955-18**Survey ID: **SID13955**Sample Date: **12-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **JOINT COMPOUND**Location: **7035A****Sample Detail**

Joint compound associated with pink drywall HA-09. Located on northwest wall.

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE****Other**Operation Status: **ACTIVE**Area Category: **STORAGE**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

**Sample Discussion**

Sample Comments

HA-10

## SAMPLE DETAIL

Sample ID: SID13955-19 Survey ID: SID13955

Sample ID: **SID13955-19**Survey ID: **SID13955**Sample Date: **12-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **JOINT COMPOUND**Location: **7035A****Sample Detail**

Joint compound associated with white drywall HA-08. Located on south wall of east room.

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE****Other**Operation Status: **ACTIVE**Area Category: **STORAGE**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

**Sample Discussion**

Sample Comments

HA-11

## SAMPLE DETAIL

Sample ID: SID13955-20 Survey ID: SID13955

Sample ID: **SID13955-20**Survey ID: **SID13955**Sample Date: **12-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **JOINT COMPOUND**Location: **7035A****Sample Detail**

Joint compound associated with white drywall HA-08. Located on the east dividing wall.

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE****Other**Operation Status: **ACTIVE**Area Category: **STORAGE**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

**Sample Discussion**

Sample Comments

HA-11

## SAMPLE DETAIL

Sample ID: SID13955-21 Survey ID: SID13955

Sample ID: **SID13955-21**Survey ID: **SID13955**Sample Date: **12-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **BASEBOARD**Location: **7035A****Sample Detail**

Gray baseboard. North dividing wall.

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE****Other**Operation Status: **ACTIVE**Area Category: **STORAGE**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**



Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

**Sample Discussion**

Sample Comments

HA-12

## SAMPLE DETAIL

Sample ID: SID13955-22 Survey ID: SID13955

Sample ID: **SID13955-22**Survey ID: **SID13955**Sample Date: **12-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **MASTIC, BASEBOARD**Location: **7035A****Sample Detail**

White mastic associated with gray baseboard HA-12. Located on north dividing wall.

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE****Other**Operation Status: **ACTIVE**Area Category: **STORAGE**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

**Sample Discussion**

Sample Comments

HA-13

## SAMPLE DETAIL

Sample ID: SID13955-23 Survey ID: SID13955

Sample ID: **SID13955-23**Survey ID: **SID13955**Sample Date: **12-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **BASEBOARD**Location: **7035A****Sample Detail**

Gray baseboard. North exterior wall.

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE****Other**Operation Status: **ACTIVE**Area Category: **STORAGE**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

**Sample Discussion**

Sample Comments

HA-12

SAMPLE DETAIL

Sample ID: SID13955-24 Survey ID: SID13955

Sample ID: **SID13955-24**

Survey ID: **SID13955**

Sample Date: **12-OCT-2020**

Assessment: **BULK SAMPLING**

Result Type: **MASTIC, BASEBOARD**

Location: **7035A**

**Sample Detail**

White mastic associated with gray baseboard HA-12. North exterior wall.

**Sort Groups**

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**

**Other**

Operation Status: **ACTIVE**

Area Category: **STORAGE**

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

**Sample Discussion**

Sample Comments

HA-13

SAMPLE DETAIL

Sample ID: SID13955-25 Survey ID: SID13955

Sample ID: **SID13955-25**

Survey ID: **SID13955**

Sample Date: **12-OCT-2020**

Assessment: **BULK SAMPLING**

Result Type: **ROOF COATING**

Location: **7035A**

**Sample Detail**

White roof caulk/coating. Located on south end of roof.

**Sort Groups**

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**

**Other**

Operation Status: **ACTIVE**

Area Category: **STORAGE**

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

**Sample Discussion**

Sample Comments

HA-14

## SAMPLE DETAIL

Sample ID: SID13955-26 Survey ID: SID13955

Sample ID: **SID13955-26**Survey ID: **SID13955**Sample Date: **12-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **CAULKING NOT WINDOWS**Location: **7035A**

## Sample Detail

Gray caulk. Located around exterior AC unit.

## Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**

## Other

Operation Status: **ACTIVE**Area Category: **STORAGE**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL**

## Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONDETECT	PERC		1	OSHA

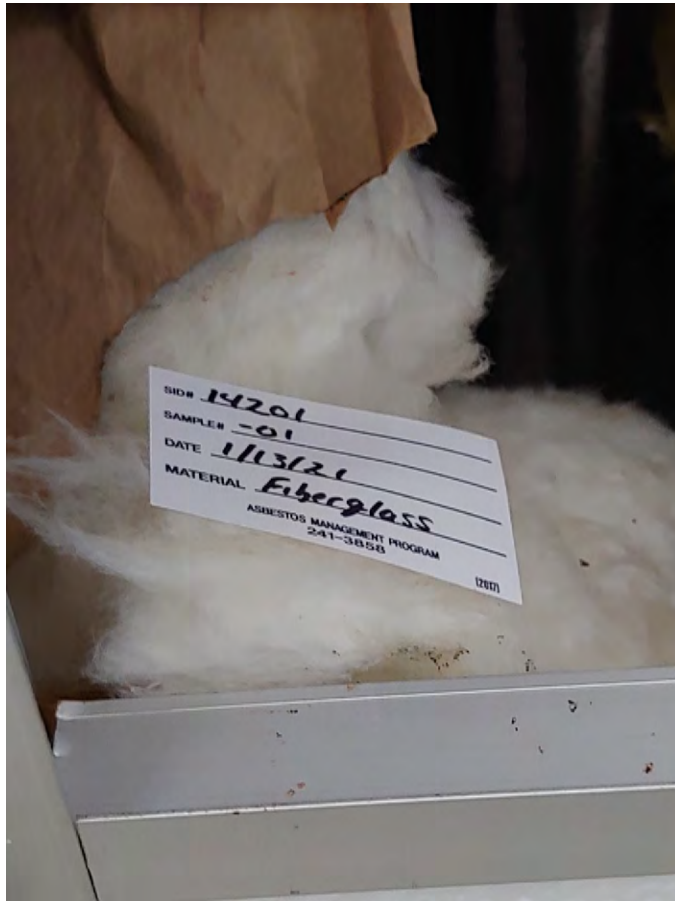
## Sample Discussion

Sample Comments

HA-15

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035A and 7035B DEMOLITION PROJECT SID 14201

<b>Date: 01/13/2021</b>	<b>Inspector: Miranda Liner</b>
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<b>HA-01</b>	<b>HA Description</b>	WHITE FIBERGLASS INSULATION
	<b>Sample #</b>	<b>SID14201-01</b>
	<b>Sample Location / Orientation</b>	SID14201-01– Northwest corner above ceiling of 7035A
	<b>Sample/Inspection Results</b>	SID14201-01 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035A and 7035B DEMOLITION PROJECT SID 14201

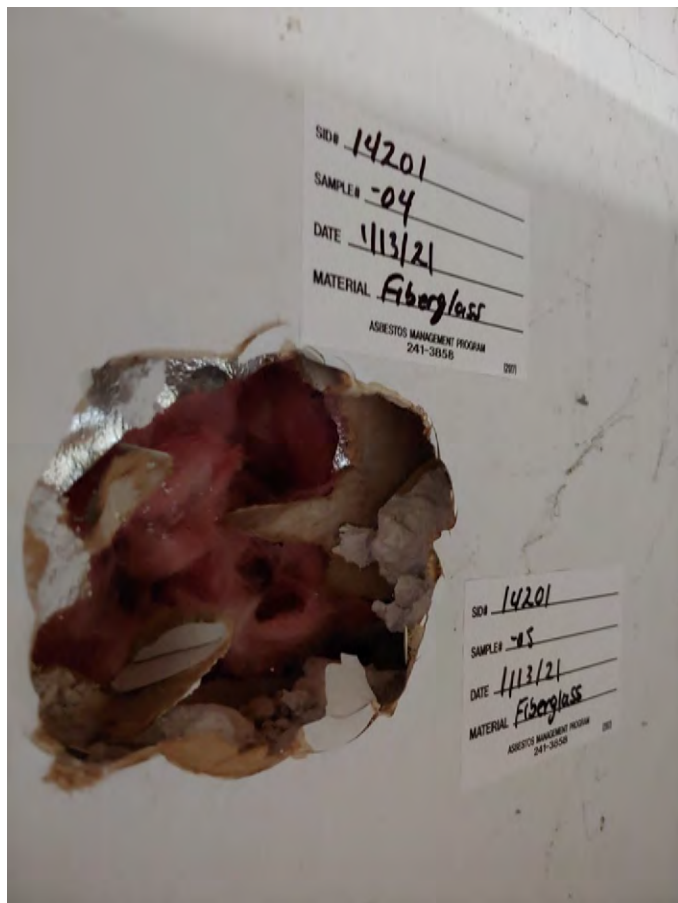
<b>Date: 01/13/2021</b>	<b>Inspector: Miranda Liner</b>
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<b>HA-06</b>	<b>HA Description</b>	WHITE FIBERGLASS INSULATION W/ ALUMINUM BACKING
	<b>Sample #</b>	SID14201-02 SID14201-03
	<b>Sample Location / Orientation</b>	SID14201-02– Northwest Wall of 7035A SID14201-03 – Northwest Wall of 7035A
	<b>Sample/Inspection Results</b>	SID14201-02 – None Detected SID14201-03 -- None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035A and 7035B DEMOLITION PROJECT SID 14201

<b>Date:</b> 01/13/2021	<b>Inspector:</b> Miranda Liner
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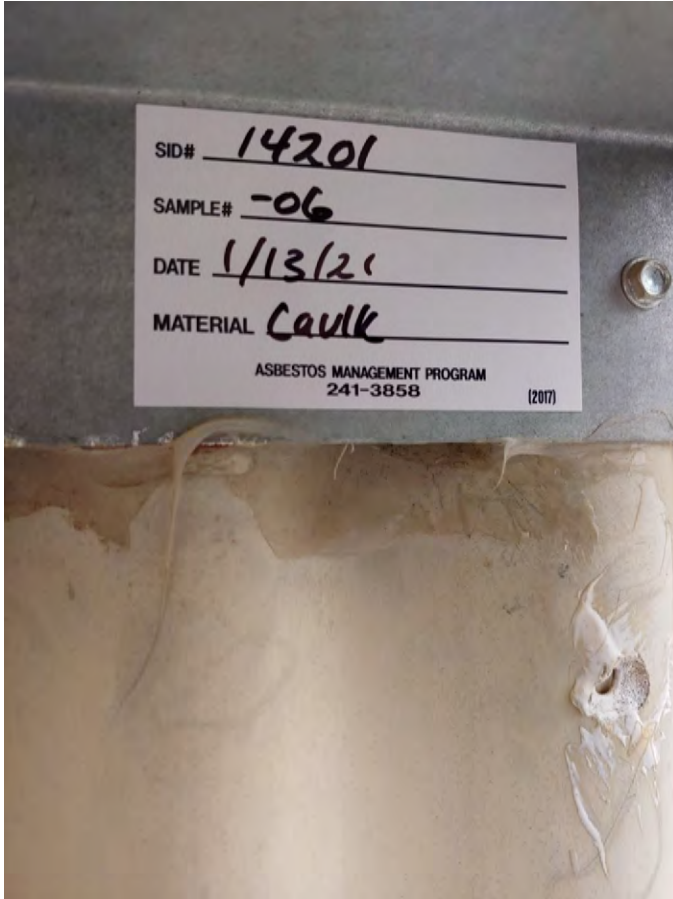


<b>HA-07</b>	<b>HA Description</b>	PINK FIBERGLASS INSULATION W/ ALUMINUM BACKING
	<b>Sample #</b>	SID14201-04 SID14201-05
	<b>Sample Location / Orientation</b>	SID14201-04– Interior wall, east side of 7035A SID14201-05 – Interior wall, east side of 7035A
	<b>Sample/Inspection Results</b>	SID14201-04 – None Detected SID14201-05 -- None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035A and 7035B DEMOLITION PROJECT SID 14201

**Date: 01/13/2021**

**Inspector: Miranda Liner**



<b>HA-15</b>	<b>HA Description</b>	GRAY CAULK AROUND AC UNIT
	<b>Sample #</b>	<b>SID14201-06</b>
	<b>Sample Location / Orientation</b>	SID14201-06– West side exterior of 7035A
	<b>Sample/Inspection Results</b>	SID14201-06 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035A and 7035B DEMOLITION PROJECT SID 14201

**Date: 01/13/2021**

**Inspector: Miranda Liner**



<b>HA-17</b>	<b>HA Description</b>	BLACK WEATHER STRIPPING
	<b>Sample #</b>	<b>SID14201-07</b>
	<b>Sample Location / Orientation</b>	SID14201-07– Southeast corner of 7035B exterior
	<b>Sample/Inspection Results</b>	SID14201-07 – None Detected
	<b>Recommendation</b>	None



## Sample Survey Profile Report

### Survey Profile Report - Survey Coversheet

Survey ID: **SID14201**  
 Status: **OPEN**  
 Survey Title: **ASBESTOS\_BULK\_7035A\_7035B\_CONTINUED  
 CHARACTERIZATION\_01/13/2021**  
 Survey Date **13-JAN-2021**  
 Location: **7035A**  
 IH-Safety officer: **HANCOCK,JULIA (00034540)**  
 Primary Sampler: **LINER,MIRANDA (03084423)**

### Request Description

#### Description of and Purpose for Sampling:

Determine the presence of asbestos fibers in the building material present in 7035A and 7035B. Survey supports upcoming CRSF Building Demolition Project. Results to Wendell Ely and Aaron Hicks. Survey was created in correlation with previous 7035 suite surveys (SID13955 and SID13956).

#### Description of Sample Equipment and Placement While Sampling:

See attached for sample locations

#### Description of Sampling Method:

Bulk Sampling

Sample Rationale: **FACILITY CHARACTERIZATION**

Work Document Project Code: **3xd87sch**

### Analytical Method

Sampling Matrix/Device: BULK MATERIAL

Sampling Method: ASBESTOS/IOP 01-12.01\_BULK

#### Description of Analysis Requested (for lab personnel)

Asbestos PLM - Bulk Analysis

### Survey Discussion

#### Discussion of Results, Expectations and History

Results for the insulation materials, caulking and weather stripping were all None Detected; therefore, no asbestos was seen during analysis.

Transite was seen upon inspection, see SID13955 and 13956 for inspection details.

#### Recommendations to Workers and Management

Transite shall be treated as ACM.

### Survey Attachments

	Description of Attachment	Filename When Uploaded

<a href="#">View/Download</a>	SID14201 Sample Plan	Bldg 7035 Suite Sample Plan REV1.docx
<a href="#">View/Download</a>	SID14201 Sample Request Form	Sampling Request SID XXX Bldg 7035 Suite Facilities.docx
<a href="#">View/Download</a>	SID14201 Sample Log	SID14201 Sample Log.pdf
<a href="#">View/Download</a>	SID14201 Sample Results	HancockSID14201.pdf
<a href="#">View/Download</a>	SID14201 Characterization Photo File FINAL 7035A 7035B	SID14201Characterization Photo File_Bldg 7035A, 7035B FINAL.pdf

## Tracking

Sample Date (or start) **13-JAN-2021**Sent to Lab **14-JAN-2021**

## Sample results list

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
<a href="#">SID14201-01</a>	13-JAN-2021	BULK SAMPLING	INSULATION, BATT		7035A	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID14201-02</a>	13-JAN-2021	BULK SAMPLING	INSULATION, BATT		7035A	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID14201-03</a>	13-JAN-2021	BULK SAMPLING	INSULATION, BATT		7035A	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID14201-04</a>	13-JAN-2021	BULK SAMPLING	INSULATION, BATT		7035A	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID14201-05</a>	13-JAN-2021	BULK SAMPLING	INSULATION, BATT		7035A	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID14201-06</a>	13-JAN-2021	BULK SAMPLING	CAULKING NOT WINDOWS		7035A	ASBESTOS - PLM	NONEDETECT	PERC	
<a href="#">SID14201-07</a>	13-JAN-2021	BULK SAMPLING	MISCELLANEOUS		7035B	ASBESTOS - PLM	NONEDETECT	PERC	1.0

## SAMPLE DETAIL

Sample ID: SID14201-01 Survey ID: SID14201

Sample ID: **SID14201-01**Survey ID: **SID14201**Sample Date: **13-JAN-2021**Assessment: **BULK SAMPLING**Result Type: **INSULATION, BATT**Location: **7035A**

## Sample Detail

White Fiberglass Insulation. Located on the northwest corner above ceiling.

## Other

Area Category: **STORAGE**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL**

## Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## Sample Discussion

Sample Comments

HA-01

## SAMPLE DETAIL

Sample ID: SID14201-02 Survey ID: SID14201

Sample ID: **SID14201-02**Survey ID: **SID14201**

Sample Date: **13-JAN-2021**  
 Assessment: **BULK SAMPLING**  
 Result Type: **INSULATION, BATT**  
 Location: **7035A**

**Sample Detail**

White Fiberglass Insulation w/ Aluminum Backing. Located on the northwest wall.

**Other**

Area Category: **STORAGE**  
 Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

**Sample Discussion**

Sample Comments

HA-06

## SAMPLE DETAIL

Sample ID: SID14201-03 Survey ID: SID14201

Sample ID: **SID14201-03**  
 Survey ID: **SID14201**  
 Sample Date: **13-JAN-2021**  
 Assessment: **BULK SAMPLING**  
 Result Type: **INSULATION, BATT**  
 Location: **7035A**

**Sample Detail**

White Fiberglass Insulation w/ Aluminum Backing. Located on the northwest wall.

**Other**

Area Category: **STORAGE**  
 Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

**Sample Discussion**

Sample Comments

HA-06

## SAMPLE DETAIL

Sample ID: SID14201-04 Survey ID: SID14201

Sample ID: **SID14201-04**  
 Survey ID: **SID14201**  
 Sample Date: **13-JAN-2021**  
 Assessment: **BULK SAMPLING**  
 Result Type: **INSULATION, BATT**  
 Location: **7035A**

**Sample Detail**

Pink Fiberglass Insulation w/ Aluminum Backing. Located on the interior wall, east side.

**Other**Area Category: **STORAGE**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

**Sample Discussion**

Sample Comments

HA-07

## SAMPLE DETAIL

Sample ID: SID14201-05 Survey ID: SID14201

Sample ID: **SID14201-05**Survey ID: **SID14201**Sample Date: **13-JAN-2021**Assessment: **BULK SAMPLING**Result Type: **INSULATION, BATT**Location: **7035A****Sample Detail**

Pink Fiberglass Insulation w/ Aluminum Backing. Located on the interior wall, east side.

**Other**Area Category: **STORAGE**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

**Sample Discussion**

Sample Comments

HA-07

## SAMPLE DETAIL

Sample ID: SID14201-06 Survey ID: SID14201

Sample ID: **SID14201-06**Survey ID: **SID14201**Sample Date: **13-JAN-2021**Assessment: **BULK SAMPLING**Result Type: **CAULKING NOT WINDOWS**Location: **7035A****Sample Detail**

Gray Caulk (AC). Located on the west side exterior of 7035A.

**Other**Area Category: **STORAGE**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC			

**Sample Discussion**

Sample Comments

HA-15

## SAMPLE DETAIL

Sample ID: SID14201-07 Survey ID: SID14201

Sample ID: **SID14201-07**Survey ID: **SID14201**Sample Date: **13-JAN-2021**Assessment: **BULK SAMPLING**Result Type: **MISCELLANEOUS**Location: **7035B****Sample Detail**

Black Weather Stripping. Located on the southeast corner of 7035B exterior.

**Other**Area Category: **STORAGE**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1.0	OSHA

**Sample Discussion**

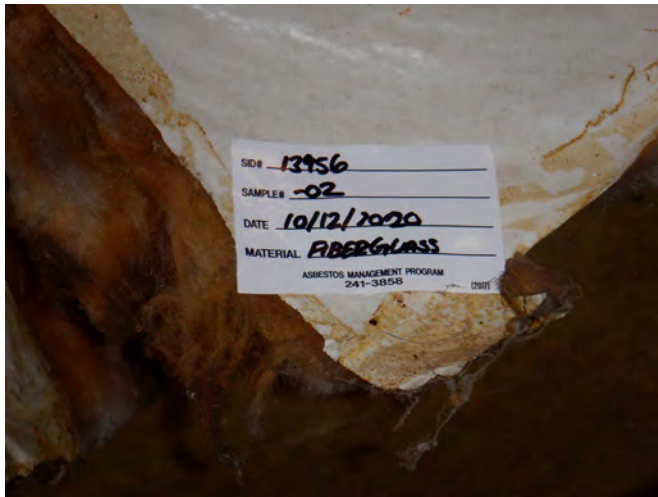
Sample Comments

HA-17

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035B DEMOLITION PROJECT SID 13956

**Date: 10/12/2020**

**Inspector: Carson Vick**



	<b>HA Description</b>	YELLOW FIBERGLASS INSULATION CEILING
	<b>Sample #</b>	SID13956-01 SID13956-02
	<b>Sample Location / Orientation</b>	SID13956-01 – South side of building SID13956-02 – North side of building
	<b>Sample/Inspection Results</b>	SID13956-01 – None Detected SID13956-02 – None Detected
	<b>Recommendation</b>	None

**CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035B  
DEMOLITION PROJECT  
SID 13956**

**Date: 10/12/2020**

**Inspector: Carson Vick**

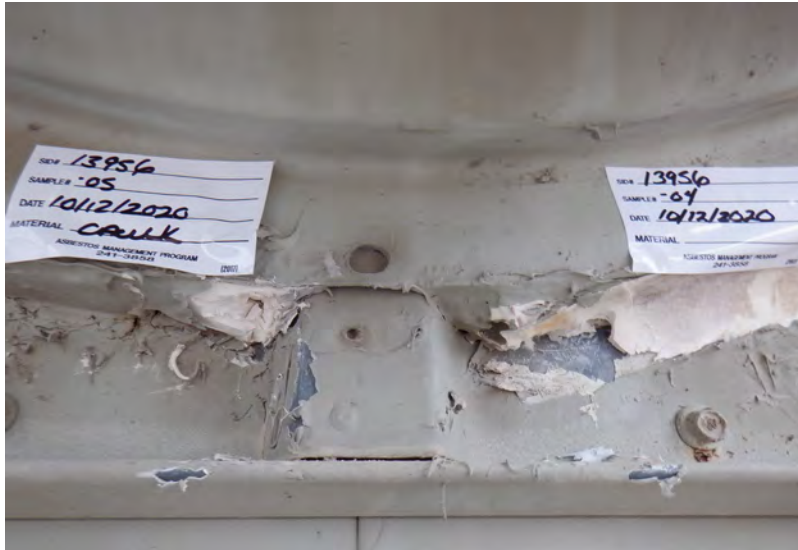


	<b>HA Description</b>	WHITE ROOF CAULKING/Coating
	<b>Sample #</b>	<b>SID13956-03</b>
	<b>Sample Location / Orientation</b>	SID13956-03 – East side exterior
	<b>Sample/Inspection Results</b>	SID13956-03 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035B DEMOLITION PROJECT SID 13956

**Date: 10/12/2020**

**Inspector: Carson Vick**



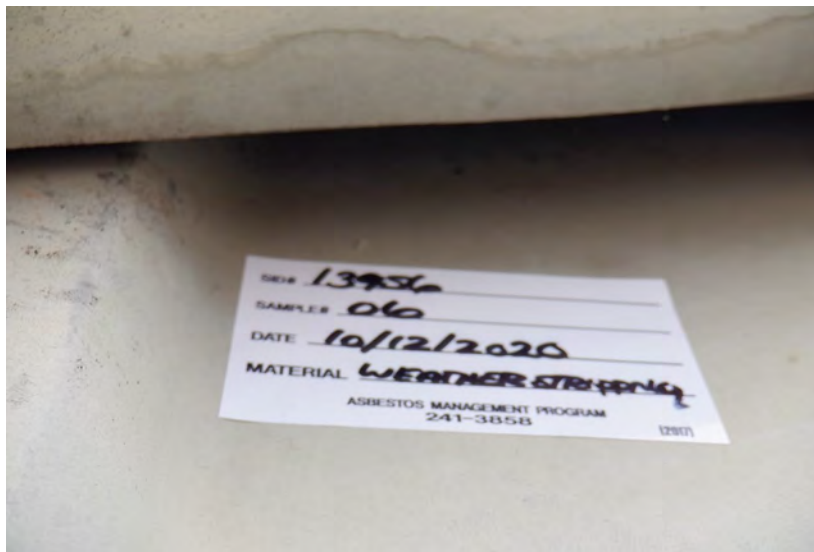
	<b>HA Description</b>	GRAY CAULK/TAPE
	<b>Sample #</b>	<b>SID13956-04</b> <b>SID13956-05</b>
	<b>Sample Location / Orientation</b>	SID13956-04 – Base of fan, east side exterior SID13956-05 – Base of fan, east side exterior
	<b>Sample/Inspection Results</b>	SID13956-04 – None Detected SID13956-05 -- None Detected
	<b>Recommendation</b>	None



CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035B  
DEMOLITION PROJECT  
SID 13956

Date: 10/12/2020

Inspector: Carson Vick

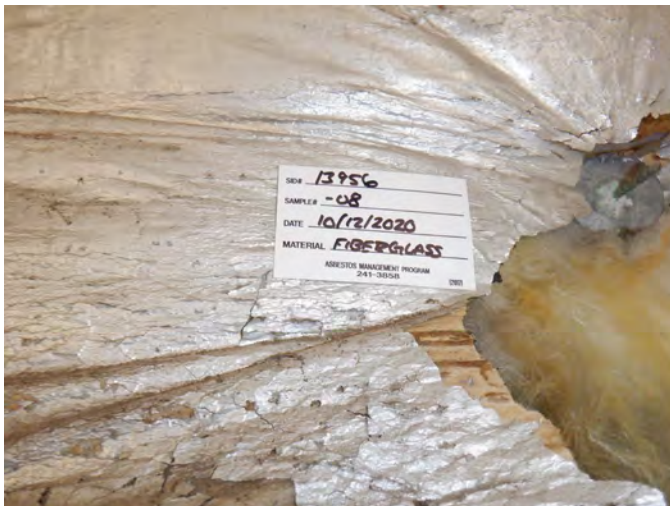


	<b>HA Description</b>	BLACK WEATHER STRIPPING
	<b>Sample #</b>	SID13956-06
	<b>Sample Location / Orientation</b>	SID13956-06 – East side exterior
	<b>Sample/Inspection Results</b>	SID13956-06 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035B DEMOLITION PROJECT SID 13956

**Date: 10/12/2020**

**Inspector: Carson Vick**



	<b>HA Description</b>	YELLOW FIBERGLASS INSULATION WITH ALUMINIUM BACKING
	<b>Sample #</b>	<b>SID13956-07</b> <b>SID13956-08</b>
	<b>Sample Location / Orientation</b>	SID13956-07 – East side wall over door. SID13956-08 – West side wall over door.
	<b>Sample/Inspection Results</b>	SID13956-07 – None Detected SID13956-08 -- None Detected
	<b>Recommendation</b>	None

## Sample Survey Profile Report

### Survey Profile Report - Survey Coversheet

Survey ID: **SID13956**  
Status: **OPEN**  
Survey Title: **ASBESTOS\_BULK\_BLDG\_7035B\_SUITE  
DEMO\_10/12/2020**  
Survey Date **12-OCT-2020**  
Location: **7035B**  
IH-Safety officer: **HANCOCK,JULIA (00034540)**  
Primary Sampler: **VICK,CARSON (03026158)**

### Request Description

#### Description of and Purpose for Sampling:

Sampling for Bldg 7035 Suite (7035A, 7035B, 7035C, 7035E, 7035F) for demolition in support of the CRSF demo. Results to Nilay Jhaveri, Wendell Ely and Aaron Hicks.

#### Description of Sample Equipment and Placement While Sampling:

See attachment for sample details.

#### Description of Sampling Method:

Bulk Sampling

Sample Rationale: **FACILITY CHARACTERIZATION**

### Analytical Method

Sampling Matrix/Device: BULK MATERIAL

Sampling Method: ASBESTOS/IOP 01-12.01\_BULK

#### Description of Analysis Requested (for lab personnel)

Asbestos PLM

### Workplace Conditions

#### Workplace Conditions

Office-Hallway; Work Area

### Survey Discussion

#### Discussion of Results, Expectations and History

Asbestos bulk sample results for the materials consisting of caulking, roof caulking/coating, weather stripping and batt insulation were all None Detected; therefore, no asbestos was seen during analysis.

Inspection revealed corrugated metal roof and ceiling, transite walls on all 4 walls totaling ~ 600 sq ft, and concrete floors for which no sampling is required of the non-suspect materials. The transite walls were not sampled as it is a known material to contain asbestos.

#### Recommendations to Workers and Management

Transite shall be treated as ACM.

### Survey Attachments

	Description of Attachment	Filename When Uploaded
<a href="#">View/Download</a>	SID13956 Sample Request Form	Sampling Request SIDXXX Bldg 7035 Suite Facilities.docx
<a href="#">View/Download</a>	SID13956 Sample Plan	Bldg 7035 Suite Sample Plan REV1.docx
<a href="#">View/Download</a>	SID13956 Asbestos Inspection Form	SID13956 Asbestos Inspection Form.pdf
<a href="#">View/Download</a>	HA List for 7035A_7035B_7035C (1977) Demolition.docx	HA List for 7035A_7035B_7035C (1977) Demolition.docx
<a href="#">View/Download</a>	SID13956 7035B Field Notes Sample Log.pdf	SID13956 7035B Field Notes Sample Log.pdf
<a href="#">View/Download</a>	SID13956 Sample Results	HancockSID13956.pdf
<a href="#">View/Download</a>	SID13956 Characterization Photo File FINAL	SID13956_Characterization Photo File_Bldg 7035B - FINAL.pdf

### Tracking

Sample Date (or start) **12-OCT-2020**

### Sample results list

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
<a href="#">SID13956-01</a>	12-OCT-2020	BULK SAMPLING	INSULATION, BATT		7035B	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13956-02</a>	12-OCT-2020	BULK SAMPLING	INSULATION, BATT		7035B	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13956-03</a>	12-OCT-2020	BULK SAMPLING	ROOF COATING		7035B	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13956-04</a>	12-OCT-2020	BULK SAMPLING	CAULKING NOT WINDOWS		7035B	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13956-05</a>	12-OCT-2020	BULK SAMPLING	CAULKING NOT WINDOWS		7035B	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13956-06</a>	12-OCT-2020	BULK SAMPLING	MISCELLANEOUS		7035B	ASBESTOS - PLM	NONEDETECT	PERC	1.0
<a href="#">SID13956-07</a>	12-OCT-2020	BULK SAMPLING	INSULATION, BATT		7035B	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13956-08</a>	12-OCT-2020	BULK SAMPLING	INSULATION, BATT		7035B	ASBESTOS - PLM	NONEDETECT	PERC	1

### SAMPLE DETAIL

Sample ID: **SID13956-01** Survey ID: **SID13956**

Sample ID: **SID13956-01**

Survey ID: **SID13956**

Sample Date: **12-OCT-2020**

Assessment: **BULK SAMPLING**

Result Type: **INSULATION, BATT**

Location: **7035B**

### Sample Detail

Yellow fiberglass batt insulation. South side, ceiling.

### Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**

### Other

Operation Status: **ACTIVE**

Area Category: **STORAGE**

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

**Sample Discussion**

Sample Comments

HA-02

## SAMPLE DETAIL

Sample ID: SID13956-02 Survey ID: SID13956

Sample ID: **SID13956-02**Survey ID: **SID13956**Sample Date: **12-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **INSULATION, BATT**Location: **7035B****Sample Detail**

Yellow fiberglass batt insulation. Located on the northeast side, ceiling.

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE****Other**Operation Status: **ACTIVE**Area Category: **STORAGE**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

**Sample Discussion**

Sample Comments

HA-02

## SAMPLE DETAIL

Sample ID: SID13956-03 Survey ID: SID13956

Sample ID: **SID13956-03**Survey ID: **SID13956**Sample Date: **12-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **ROOF COATING**Location: **7035B****Sample Detail**

White roof caulking/coating, east side exterior.

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE****Other**Operation Status: **ACTIVE**Area Category: **STORAGE**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

**Sample Discussion**

Sample Comments

HA-14

## SAMPLE DETAIL

Sample ID: SID13956-04 Survey ID: SID13956

Sample ID: **SID13956-04**Survey ID: **SID13956**Sample Date: **12-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **CAULKING NOT WINDOWS**Location: **7035B****Sample Detail**

Gray caulk/tape. Base of fan, east side exterior.

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE****Other**Operation Status: **ACTIVE**Area Category: **STORAGE**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

**Sample Discussion**

Sample Comments

HA-16

## SAMPLE DETAIL

Sample ID: SID13956-05 Survey ID: SID13956

Sample ID: **SID13956-05**Survey ID: **SID13956**Sample Date: **12-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **CAULKING NOT WINDOWS**Location: **7035B****Sample Detail**

Gray caulk/tape. Base of fan, east side exterior.

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE****Other**Operation Status: **ACTIVE**Area Category: **STORAGE**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

**Sample Discussion**

Sample Comments

HA-16

SAMPLE DETAIL

Sample ID: SID13956-06 Survey ID: SID13956

Sample ID: **SID13956-06**

Survey ID: **SID13956**

Sample Date: **12-OCT-2020**

Assessment: **BULK SAMPLING**

Result Type: **MISCELLANEOUS**

Location: **7035B**

**Sample Detail**

Black weather stripping, east side exterior.

**Sort Groups**

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**

**Other**

Operation Status: **ACTIVE**

Area Category: **STORAGE**

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1.0	OSHA

**Sample Discussion**

Sample Comments

HA-17

SAMPLE DETAIL

Sample ID: SID13956-07 Survey ID: SID13956

Sample ID: **SID13956-07**

Survey ID: **SID13956**

Sample Date: **12-OCT-2020**

Assessment: **BULK SAMPLING**

Result Type: **INSULATION, BATT**

Location: **7035B**

**Sample Detail**

Yellow fiberglass batt insulation with aluminum backing. Located on east wall over door.

**Sort Groups**

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**

**Other**

Operation Status: **ACTIVE**

Area Category: **STORAGE**

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

**Sample Discussion**

Sample Comments

HA-03

SAMPLE DETAIL

Sample ID: SID13956-08 Survey ID: SID13956

Sample ID: **SID13956-08**

Survey ID: **SID13956**

Sample Date: **12-OCT-2020**

Assessment: **BULK SAMPLING**

Result Type: **INSULATION, BATT**

Location: **7035B**

**Sample Detail**

Yellow fiberglass batt insulation with aluminum backing. Located on west wall over door.

**Sort Groups**

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**

**Other**

Operation Status: **ACTIVE**

Area Category: **STORAGE**

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONDETECT	PERC		1	OSHA

**Sample Discussion**

Sample Comments

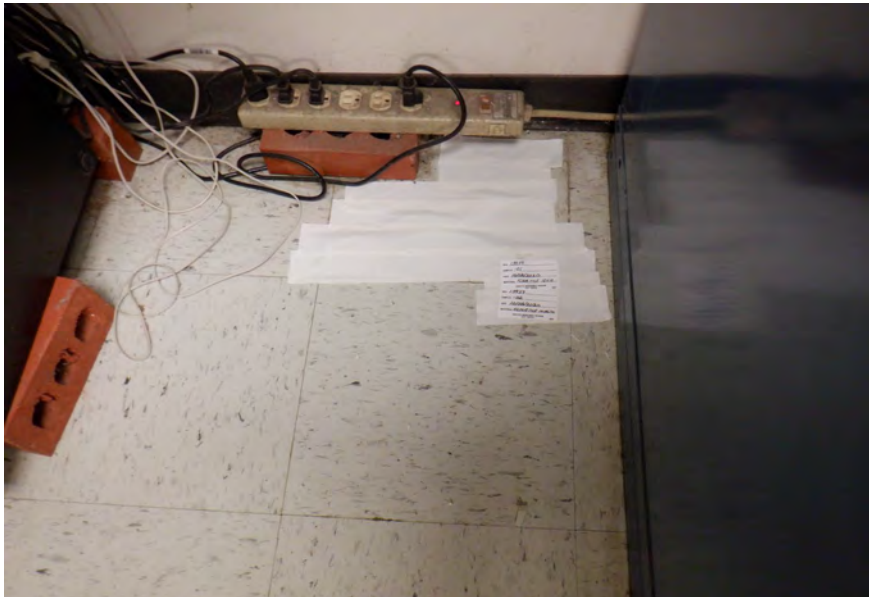
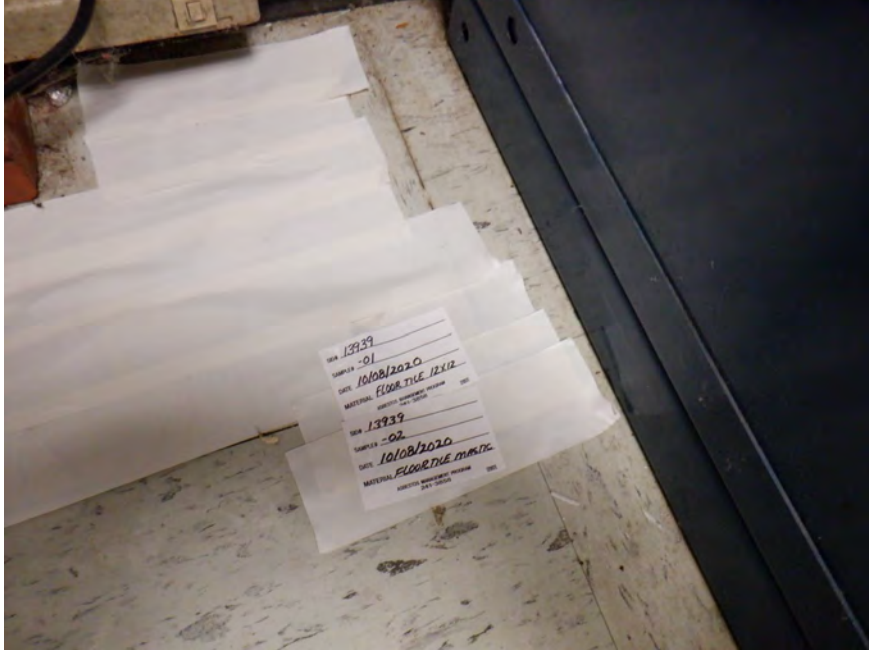
HA-03



# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035C SID13939

**Date: 12/08/2020**

**Photographer: Carson Vick**

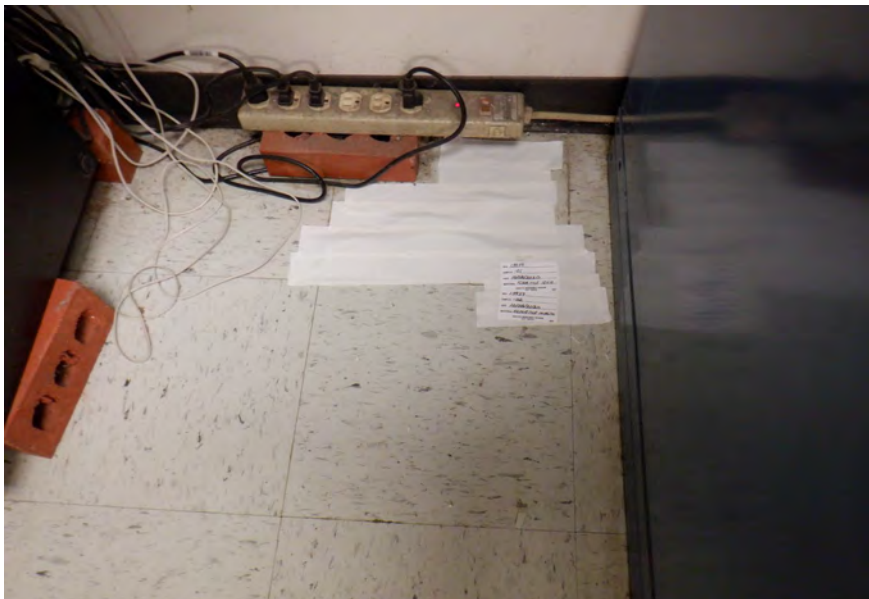
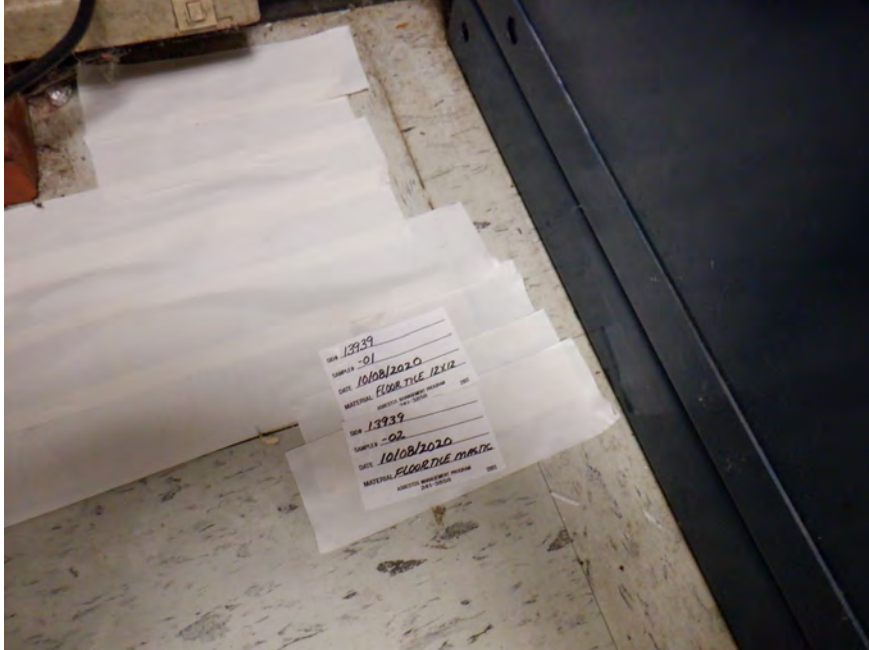


	<b>HA Description</b>	<b>12X12 white with black streaks floor tile</b>
	<b>Sample #</b>	<b>SID13939-01</b>
	<b>Sample Location / Orientation</b>	<b>North Side of room.</b>
	<b>Sample/Inspection Results</b>	<b>SID13939-01 – None Detected</b>
	<b>Recommendation</b>	<b>None</b>

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035C SID13939

**Date: 12/08/2020**

**Photographer: Carson Vick**



	<b>HA Description</b>	White mastic associated with floor tile
	<b>Sample #</b>	SID13939-02
	<b>Sample Location / Orientation</b>	North Side of room.
	<b>Sample/Inspection Results</b>	SID13939-02 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035C SID13939

**Date: 12/08/2020**

**Photographer: Carson Vick**



	<b>HA Description</b>	<b>Black baseboard</b>
	<b>Sample #</b>	<b>SID13939-03</b>
	<b>Sample Location / Orientation</b>	<b>North wall</b>
	<b>Sample/Inspection Results</b>	<b>SID13939-03 – None Detected</b>
	<b>Recommendation</b>	<b>None</b>

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035C SID13939

**Date: 12/08/2020**

**Photographer: Carson Vick**

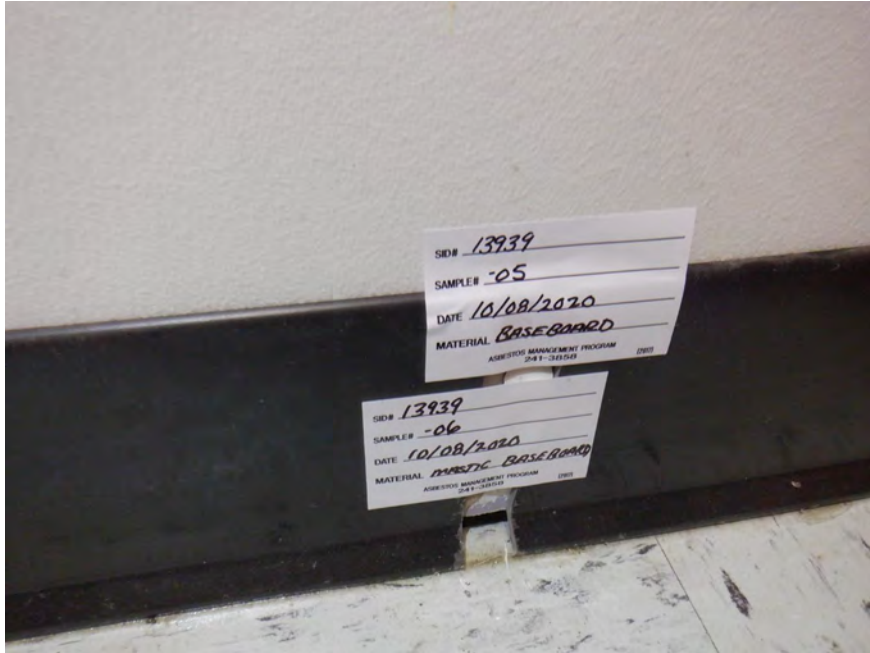


	<b>HA Description</b>	<b>Gray mastic adhesive associated with baseboard</b>
	<b>Sample #</b>	<b>SID13939-04</b>
	<b>Sample Location / Orientation</b>	<b>North side of room.</b>
	<b>Sample/Inspection Results</b>	<b>SID13939-04 – None Detected</b>
	<b>Recommendation</b>	<b>None</b>

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035C SID13939

**Date:** 12/08/2020

**Photographer:** Carson Vick

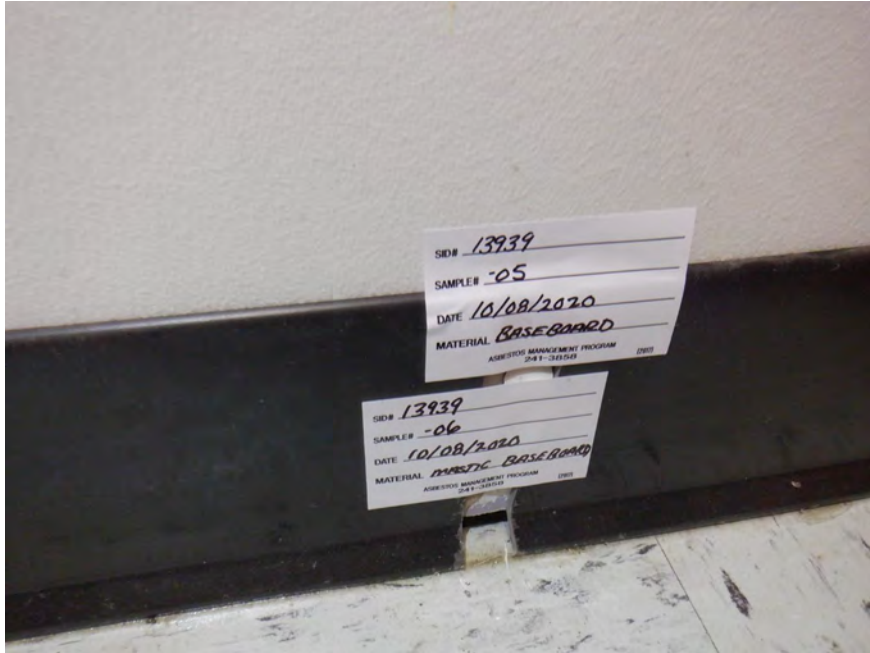


	<b>HA Description</b>	Black baseboard
	<b>Sample #</b>	SID13939-05
	<b>Sample Location / Orientation</b>	North wall
	<b>Sample/Inspection Results</b>	SID13939-05 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035C SID13939

**Date:** 12/08/2020

**Photographer:** Carson Vick

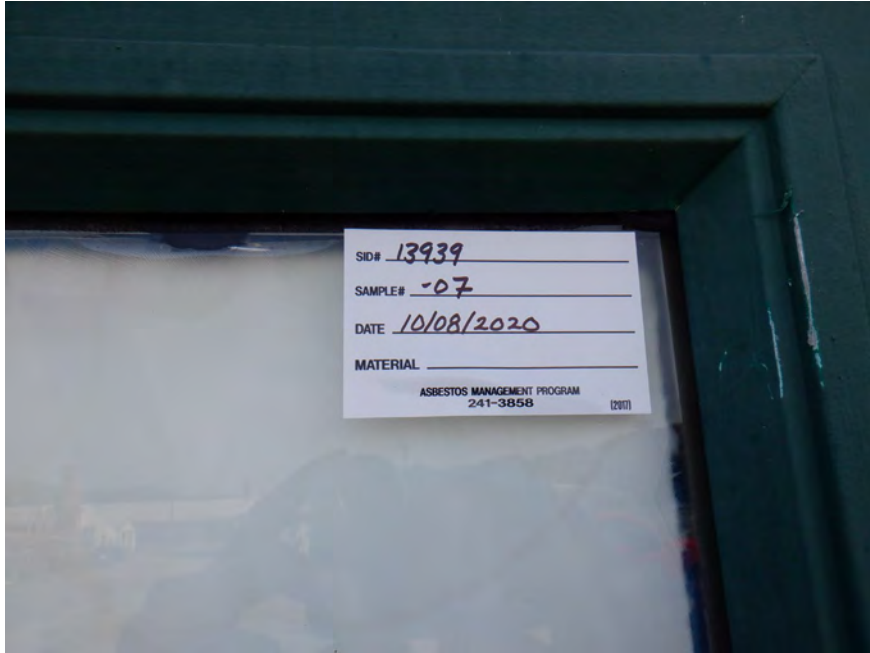


	<b>HA Description</b>	Gray mastic adhesive associated with baseboard
	<b>Sample #</b>	SID13939-06
	<b>Sample Location / Orientation</b>	East wall of room.
	<b>Sample/Inspection Results</b>	SID13939-06 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035C SID13939

**Date: 12/08/2020**

**Photographer: Carson Vick**



	<b>HA Description</b>	<b>Black window caulk</b>
	<b>Sample #</b>	<b>SID13939-07</b>
	<b>Sample Location / Orientation</b>	<b>Outside west facing door.</b>
	<b>Sample/Inspection Results</b>	<b>SID13939-07 – None Detected</b>
	<b>Recommendation</b>	<b>None</b>

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035C SID13939

**Date: 12/08/2020**

**Photographer: Carson Vick**



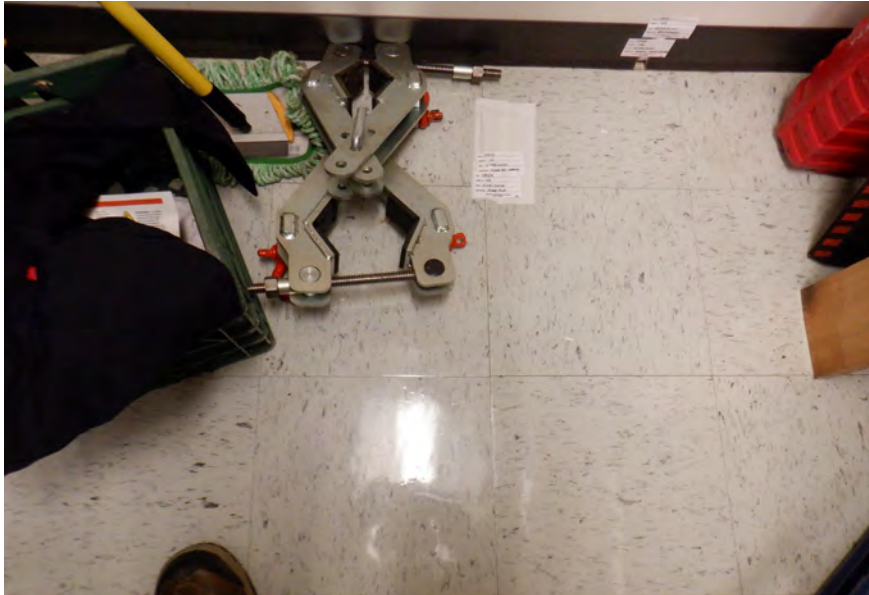
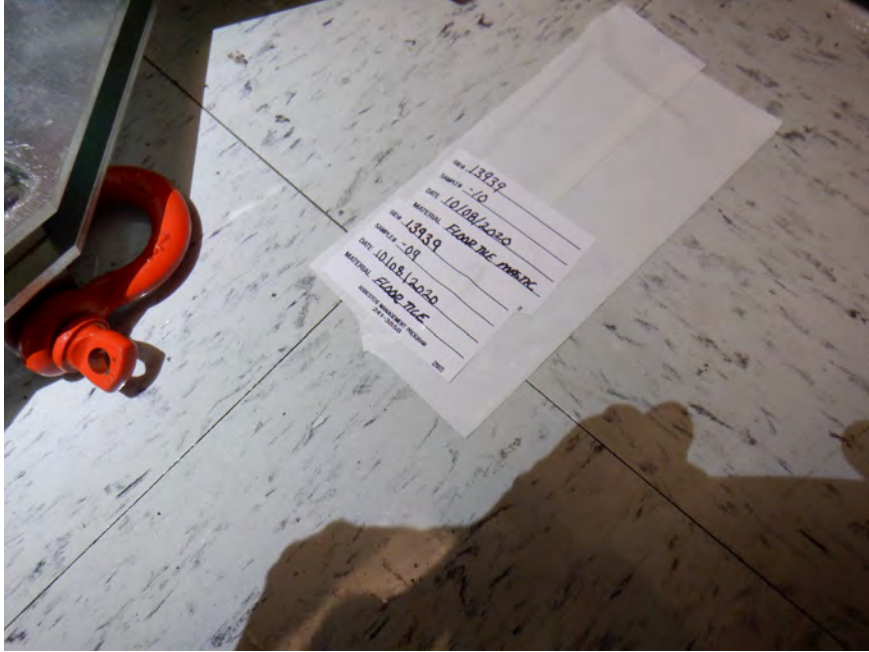
	<b>HA Description</b>	Black window caulk
	<b>Sample #</b>	SID13939-08
	<b>Sample Location / Orientation</b>	Outside west facing door.
	<b>Sample/Inspection Results</b>	SID13939-08 – None Detected
	<b>Recommendation</b>	None



# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035C SID13939

**Date:** 12/08/2020

**Photographer:** Carson Vick

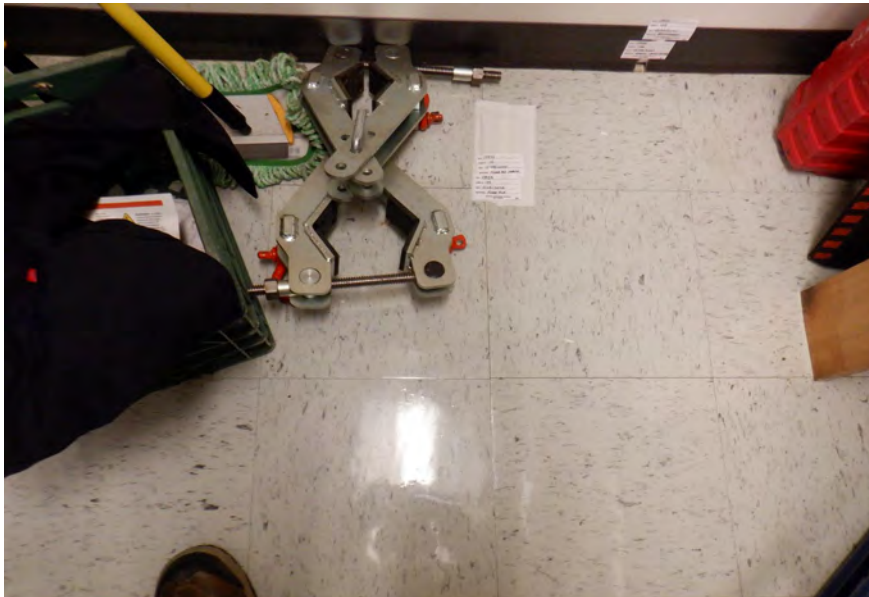
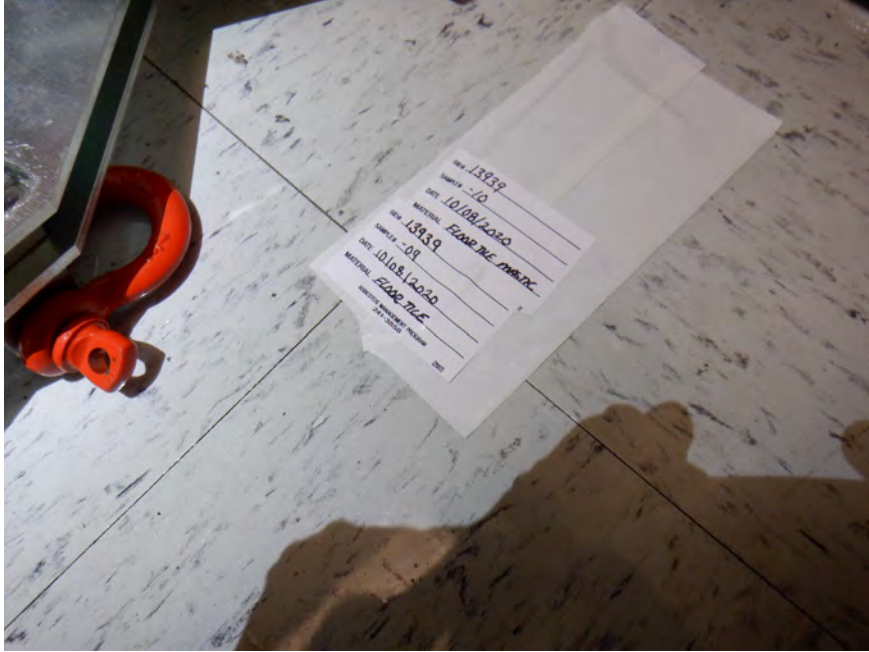


	<b>HA Description</b>	12X12 white with black streaks floor tile
	<b>Sample #</b>	SID13939-09
	<b>Sample Location / Orientation</b>	East side of room.
	<b>Sample/Inspection Results</b>	SID13939-09 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035C SID13939

**Date:** 12/08/2020

**Photographer:** Carson Vick



	<b>HA Description</b>	Gray mastic associated with sample 09 floor tile
	<b>Sample #</b>	SID13939-10
	<b>Sample Location / Orientation</b>	East side of room.
	<b>Sample/Inspection Results</b>	SID13939-10 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035C SID13939

**Date:** 12/08/2020

**Photographer:** Carson Vick

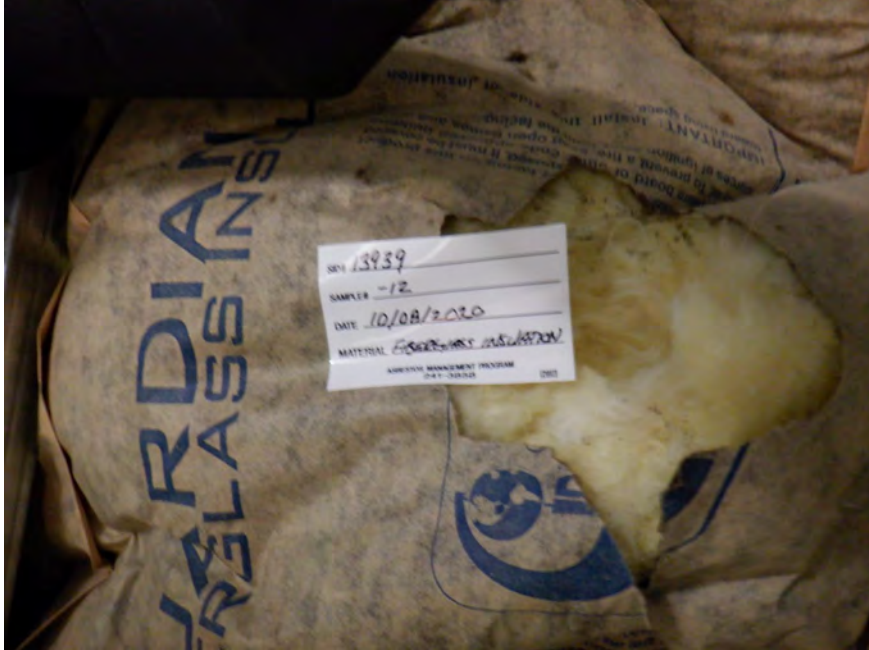


	<b>HA Description</b>	Yellow fiberglass wall insulation
	<b>Sample #</b>	SID13939-11
	<b>Sample Location / Orientation</b>	SE exterior wall.
	<b>Sample/Inspection Results</b>	SID13939-11 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035C SID13939

**Date: 12/08/2020**

**Photographer: Carson Vick**



	<b>HA Description</b>	<b>Yellow fiberglass wall insulation</b>
	<b>Sample #</b>	<b>SID13939-12</b>
	<b>Sample Location / Orientation</b>	<b>Above ceiling, center east wall.</b>
	<b>Sample/Inspection Results</b>	<b>SID13939-12 – None Detected</b>
	<b>Recommendation</b>	<b>None</b>

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035C SID13939

**Date: 12/08/2020**

**Photographer: Carson Vick**

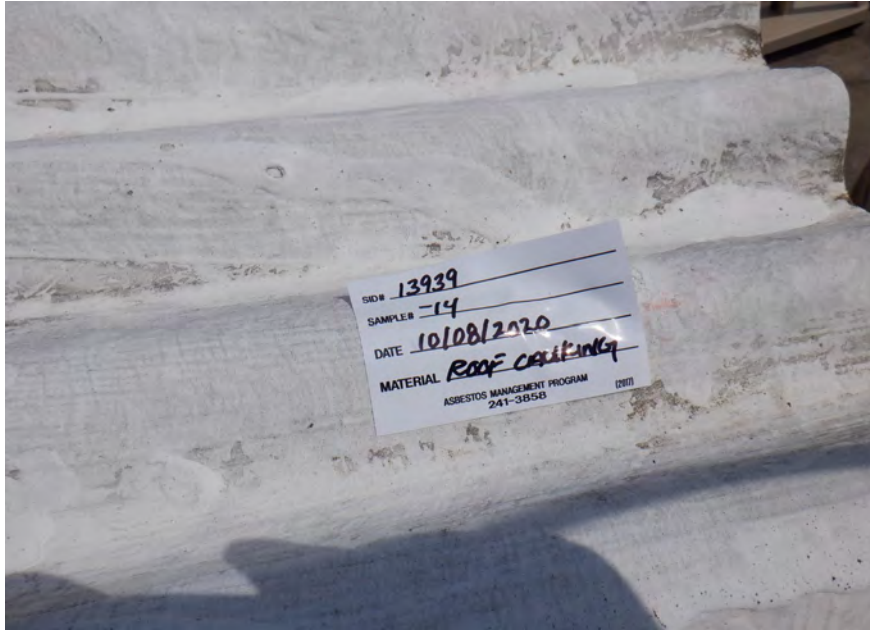


	<b>HA Description</b>	<b>White/Gray corrugated metal roof caulking/coating material</b>
	<b>Sample #</b>	<b>SID13939-13</b>
	<b>Sample Location / Orientation</b>	<b>Eastside exterior roof.</b>
	<b>Sample/Inspection Results</b>	<b>SID13939-13 – None Detected</b>
	<b>Recommendation</b>	<b>None</b>

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035C SID13939

**Date: 12/08/2020**

**Photographer: Carson Vick**



	<b>HA Description</b>	White/Gray corrugated metal roof caulking/coating material
	<b>Sample #</b>	SID13939-14
	<b>Sample Location / Orientation</b>	West side exterior roof.
	<b>Sample/Inspection Results</b>	SID13939-14 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035C SID13939

**Date: 12/08/2020**

**Photographer: Carson Vick**

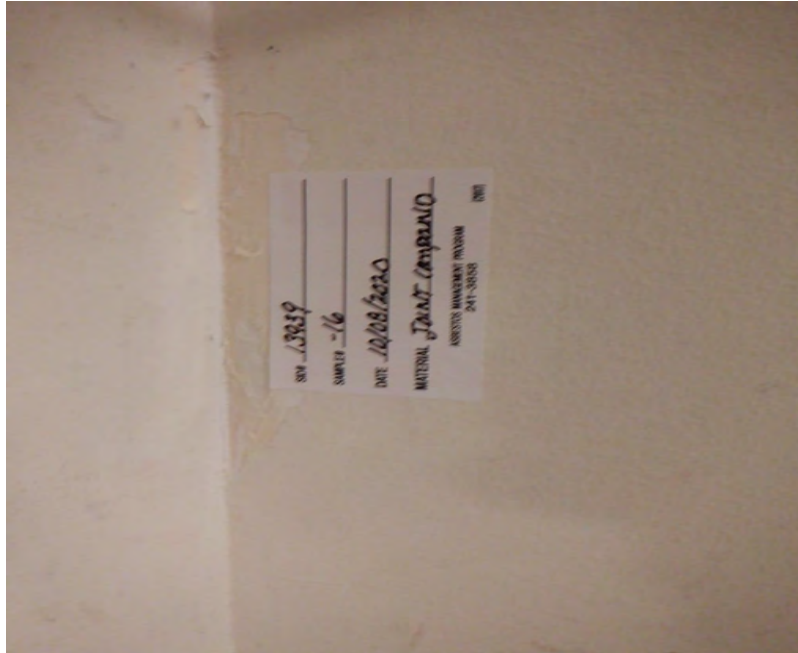


	<b>HA Description</b>	<b>White drywall sheets</b>
	<b>Sample #</b>	<b>SID13939-15</b>
	<b>Sample Location / Orientation</b>	<b>North wall by door.</b>
	<b>Sample/Inspection Results</b>	<b>SID13939-15 – None Detected</b>
	<b>Recommendation</b>	<b>None</b>

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035C SID13939

**Date: 12/08/2020**

**Photographer: Carson Vick**



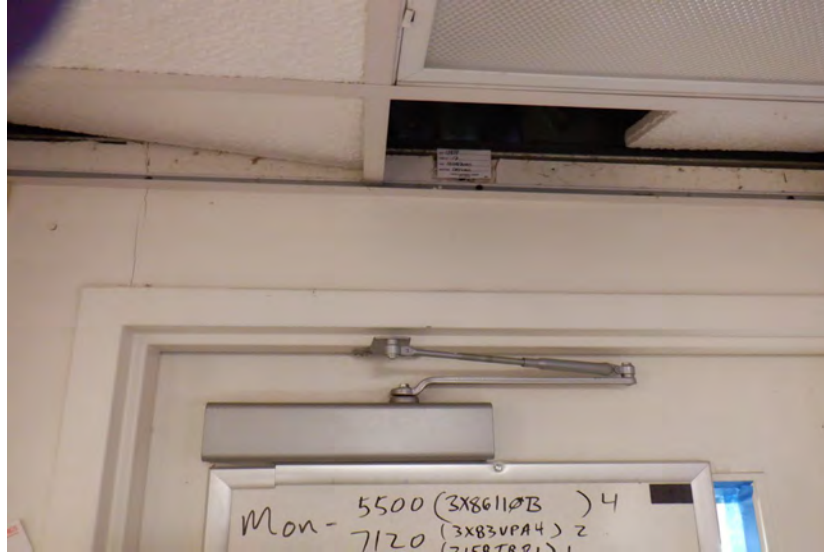
	<b>HA Description</b>	Joint compound associated with sample 15.
	<b>Sample #</b>	SID13939-16
	<b>Sample Location / Orientation</b>	North wall by door.
	<b>Sample/Inspection Results</b>	SID13939-16 – None Detected
	<b>Recommendation</b>	None



# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035C SID13939

**Date: 12/08/2020**

**Photographer: Carson Vick**

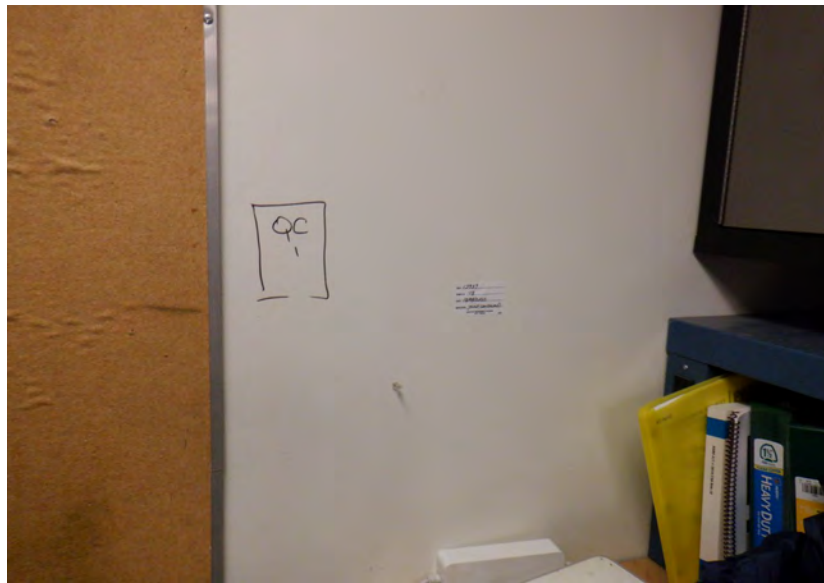
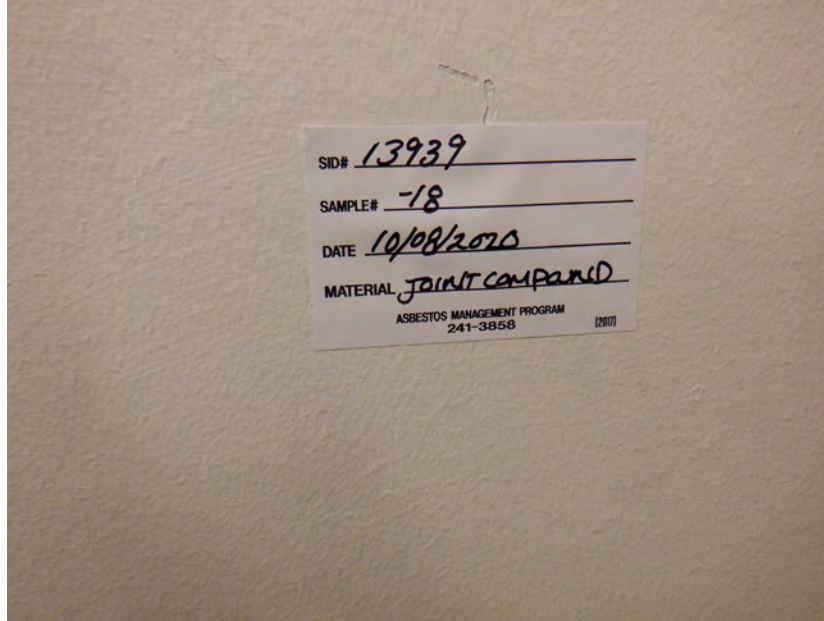


	<b>HA Description</b>	<b>White drywall sheets</b>
	<b>Sample #</b>	<b>SID13939-17</b>
	<b>Sample Location / Orientation</b>	<b>West wall over door.</b>
	<b>Sample/Inspection Results</b>	SID13939-17 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035C SID13939

**Date:** 12/08/2020

**Photographer:** Carson Vick



	<b>HA Description</b>	Joint compound associated with sample 17.
	<b>Sample #</b>	SID13939-18
	<b>Sample Location / Orientation</b>	West wall over door.
	<b>Sample/Inspection Results</b>	SID13939-18 – None Detected
	<b>Recommendation</b>	None

## Sample Survey Profile Report

### Survey Profile Report - Survey Coversheet

Survey ID: **SID13939**  
 Status: **OPEN**  
 Survey Title: **ASBESTOS BULK BLDG 7035C  
 DEMO 10/08/2020**  
 Survey Date: **08-OCT-2020**  
 Location: **7035C**  
 IH-Safety officer: **HANCOCK,JULIA (00034540)**  
 Primary Sampler: **VICK,CARSON (03026158)**

### Request Description

#### Description of and Purpose for Sampling:

Sampling for Bldg 7035 Suite (7035A, 7035B, 7035C, 7035E, 7035F) for demolition in support of the CRSF demo. Results to Nilay Jhaveri, Wendell Ely and Aaron Hicks.

#### Description of Sample Equipment and Placement While Sampling:

See photo file.

Sample Rationale: **FACILITY CHARACTERIZATION**

### Analytical Method

Sampling Matrix/Device: BULK MATERIAL

Sampling Method: ASBESTOS/IOP 01-12.01\_BULK

#### Description of Analysis Requested (for lab personnel)

Asbestos - PLM

### Survey Discussion

#### Discussion of Results, Expectations and History

Results for the materials consisting of roof caulking/coating, wall insulation, floor tile, mastic, baseboard and associated mastic, window caulking, drywall, and joint compound were all None Detected; therefore no asbestos was seen during analysis.

Inspection revealed metal roof, corrugated metal walls, styrofoam ceiling tiles, black armaflex (rubber) insulation on piping and no window glazing. These are non suspect materials therefore no samples were collected.

#### Recommendations to Workers and Management

None, no asbestos present.

### Survey Attachments

	Description of Attachment	Filename When Uploaded
<a href="#">View/Download</a>	Sampling Request SID XXX Bldg 7035 Suite Facilities.docx	Sampling Request SID XXX Bldg 7035 Suite Facilities.docx
<a href="#">View/Download</a>	SID13939 Asbestos Inspection Form.pdf	SID13939 Asbestos Inspection Form.pdf

<a href="#">View/Download</a>	SID13939 Sample Log.pdf	SID13939 Sample Log.pdf
<a href="#">View/Download</a>	SID13939 Sample Results	HancockSID13939.pdf
<a href="#">View/Download</a>	SID13939 Characterization Photo File FINAL	SID13939 Characterization Photo File 7035C FINAL.pdf
<a href="#">View/Download</a>	HA List for 7035 (A, B, and C) Bldgs	HA List for 7035A_7035B_7035C (1977) Demolition.docx

## Tracking

Sample Date (or start) **08-OCT-2020**Sent to Lab **13-OCT-2020**

## Sample results list

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
<a href="#">SID13939-01</a>	08-OCT-2020	BULK SAMPLING	FLOOR TILE		7035C	ASBESTOS - PLM	NONEDETEC	PERC	1
<a href="#">SID13939-02</a>	08-OCT-2020	BULK SAMPLING	MASTIC, FLOOR TILE		7035C	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13939-03</a>	08-OCT-2020	BULK SAMPLING	BASEBOARD		7035C	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13939-04</a>	08-OCT-2020	BULK SAMPLING	MASTIC, BASEBOARD		7035C	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13939-05</a>	08-OCT-2020	BULK SAMPLING	BASEBOARD		7035C	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13939-06</a>	08-OCT-2020	BULK SAMPLING	MASTIC, BASEBOARD		7035C	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13939-07</a>	08-OCT-2020	BULK SAMPLING	WINDOW CAULKING		7035C	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13939-08</a>	08-OCT-2020	BULK SAMPLING	WINDOW CAULKING		7035C	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13939-09</a>	08-OCT-2020	BULK SAMPLING	FLOOR TILE		7035C	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13939-10</a>	08-OCT-2020	BULK SAMPLING	MASTIC, FLOOR TILE		7035C	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13939-11</a>	08-OCT-2020	BULK SAMPLING	INSULATION, BATT		7035C	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13939-12</a>	08-OCT-2020	BULK SAMPLING	INSULATION, BATT		7035C	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13939-13</a>	08-OCT-2020	BULK SAMPLING	ROOF COATING		7035C	ASBESTOS - PLM	NONEDETECT	PERC	
<a href="#">SID13939-14</a>	08-OCT-2020	BULK SAMPLING	ROOF COATING		7035C	ASBESTOS - PLM	NONEDETECT	PERC	
<a href="#">SID13939-15</a>	08-OCT-2020	BULK SAMPLING	DRYWALL		7035C	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13939-16</a>	08-OCT-2020	BULK SAMPLING	JOINT COMPOUND		7035C	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13939-17</a>	08-OCT-2020	BULK SAMPLING	DRYWALL		7035C	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13939-18</a>	08-OCT-2020	BULK SAMPLING	JOINT COMPOUND		7035C	ASBESTOS - PLM	NONEDETECT	PERC	1

## SAMPLE DETAIL

Sample ID: SID13939-01 Survey ID: SID13939

Sample ID: **SID13939-01**Survey ID: **SID13939**Sample Date: **08-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **FLOOR TILE**Location: **7035C**

## Sample Detail

12X12 white with black streaks floor tile - North Side of room.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL**

## Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETEC	PERC		1	OSHA

**Sample Discussion**

Sample Comments

HA-18

## SAMPLE DETAIL

Sample ID: SID13939-02 Survey ID: SID13939

Sample ID: **SID13939-02**Survey ID: **SID13939**Sample Date: **08-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **MASTIC, FLOOR TILE**Location: **7035C****Sample Detail**

White mastic associated with floor tile HA-18 - North side of room.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONDETECT	PERC		1	OSHA

**Sample Discussion**

Sample Comments

HA-19

## SAMPLE DETAIL

Sample ID: SID13939-03 Survey ID: SID13939

Sample ID: **SID13939-03**Survey ID: **SID13939**Sample Date: **08-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **BASEBOARD**Location: **7035C****Sample Detail**

Black baseboard - North wall.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONDETECT	PERC		1	OSHA

**Sample Discussion**

Sample Comments

HA-20

## SAMPLE DETAIL

Sample ID: SID13939-04 Survey ID: SID13939

Sample ID: **SID13939-04**Survey ID: **SID13939**Sample Date: **08-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **MASTIC, BASEBOARD**

Location: **7035C****Sample Detail**

Gray mastic adhesive associated with baseboard - North side of room.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

**Sample Discussion**

Sample Comments

HA-21

## SAMPLE DETAIL

Sample ID: SID13939-05 Survey ID: SID13939

Sample ID: **SID13939-05**Survey ID: **SID13939**Sample Date: **08-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **BASEBOARD**Location: **7035C****Sample Detail**

Black baseboard - East wall.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

**Sample Discussion**

Sample Comments

HA-20

## SAMPLE DETAIL

Sample ID: SID13939-06 Survey ID: SID13939

Sample ID: **SID13939-06**Survey ID: **SID13939**Sample Date: **08-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **MASTIC, BASEBOARD**Location: **7035C****Sample Detail**

Gray mastic adhesive associated with baseboard HA-20 - East wall of room.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

**Sample Discussion**

Sample Comments

HA-21

## SAMPLE DETAIL

Sample ID: SID13939-07 Survey ID: SID13939

Sample ID: **SID13939-07**Survey ID: **SID13939**Sample Date: **08-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **WINDOW CAULKING**Location: **7035C**

## Sample Detail

Black window caulk - Outside west facing door.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL**

## Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## Sample Discussion

Sample Comments

HA-22

## SAMPLE DETAIL

Sample ID: SID13939-08 Survey ID: SID13939

Sample ID: **SID13939-08**Survey ID: **SID13939**Sample Date: **08-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **WINDOW CAULKING**Location: **7035C**

## Sample Detail

Black window caulk - Outside west facing door.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL**

## Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## Sample Discussion

Sample Comments

HA-22

## SAMPLE DETAIL

Sample ID: SID13939-09 Survey ID: SID13939

Sample ID: **SID13939-09**Survey ID: **SID13939**Sample Date: **08-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **FLOOR TILE**Location: **7035C**

## Sample Detail

12X12 white with black streaks floor tile - East side of room.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

#### Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

#### Sample Discussion

Sample Comments

HA-18

#### SAMPLE DETAIL

Sample ID: **SID13939-10** Survey ID: **SID13939**

Sample ID: **SID13939-10**

Survey ID: **SID13939**

Sample Date: **08-OCT-2020**

Assessment: **BULK SAMPLING**

Result Type: **MASTIC, FLOOR TILE**

Location: **7035C**

#### Sample Detail

Gray mastic associated with HA-18 - East side of room.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

#### Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

#### Sample Discussion

Sample Comments

HA-19

#### SAMPLE DETAIL

Sample ID: **SID13939-11** Survey ID: **SID13939**

Sample ID: **SID13939-11**

Survey ID: **SID13939**

Sample Date: **08-OCT-2020**

Assessment: **BULK SAMPLING**

Result Type: **INSULATION, BATT**

Location: **7035C**

#### Sample Detail

Yellow fiberglass wall insulation - SE exterior wall.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

#### Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

#### Sample Discussion

Sample Comments

HA-02



## SAMPLE DETAIL

Sample ID: SID13939-12 Survey ID: SID13939

Sample ID: **SID13939-12**Survey ID: **SID13939**Sample Date: **08-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **INSULATION, BATT**Location: **7035C**

## Sample Detail

Yellow fiberglass wall insulation - Above ceiling, center east wall.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL**

## Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## Sample Discussion

Sample Comments

HA-02

## SAMPLE DETAIL

Sample ID: SID13939-13 Survey ID: SID13939

Sample ID: **SID13939-13**Survey ID: **SID13939**Sample Date: **08-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **ROOF COATING**Location: **7035C**

## Sample Detail

White/Gray corrugated metal roof caulking/coating material - Eastside exterior roof.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL**

## Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC			

## Sample Discussion

Sample Comments

HA-23

## SAMPLE DETAIL

Sample ID: SID13939-14 Survey ID: SID13939

Sample ID: **SID13939-14**Survey ID: **SID13939**Sample Date: **08-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **ROOF COATING**Location: **7035C**

## Sample Detail

White/Gray corrugated metal roof caulking/coating material - West side exterior roof.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC			

**Sample Discussion**

Sample Comments

HA-23

## SAMPLE DETAIL

Sample ID: SID13939-15 Survey ID: SID13939

Sample ID: **SID13939-15**Survey ID: **SID13939**Sample Date: **08-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **DRYWALL**Location: **7035C****Sample Detail**

White drywall sheets - North wall by door.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

**Sample Discussion**

Sample Comments

HA-08

## SAMPLE DETAIL

Sample ID: SID13939-16 Survey ID: SID13939

Sample ID: **SID13939-16**Survey ID: **SID13939**Sample Date: **08-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **JOINT COMPOUND**Location: **7035C****Sample Detail**

Joint compound associated with drywall - North wall by door

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

**Sample Discussion**

Sample Comments

HA-11

## SAMPLE DETAIL

Sample ID: SID13939-17 Survey ID: SID13939

Sample ID: **SID13939-17**  
 Survey ID: **SID13939**  
 Sample Date: **08-OCT-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **DRYWALL**  
 Location: **7035C**

**Sample Detail**

White drywall sheets - West wall over door.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

**Sample Discussion**

Sample Comments  
 HA-08

SAMPLE DETAIL

**Sample ID: SID13939-18 Survey ID: SID13939**

Sample ID: **SID13939-18**  
 Survey ID: **SID13939**  
 Sample Date: **08-OCT-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **JOINT COMPOUND**  
 Location: **7035C**

**Sample Detail**

Joint compound associated with drywall - West wall over door.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

**Sample Discussion**

Sample Comments  
 HA-11

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035E DEMOLITION PROJECT SID 13947

**Date: 10/08/2020**

**Inspector: Carson Vick**

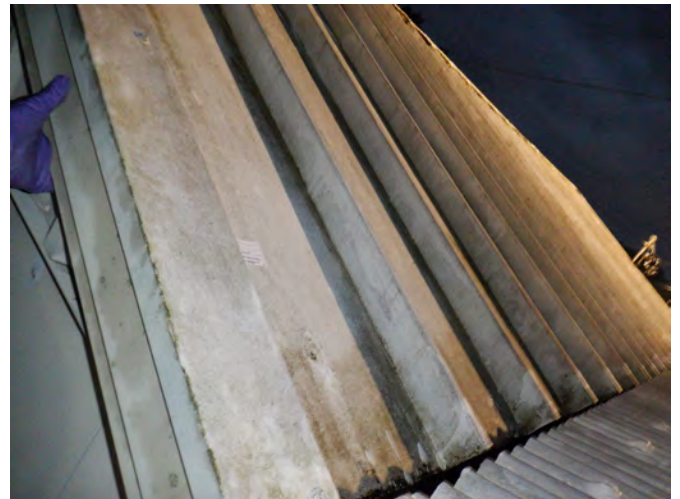
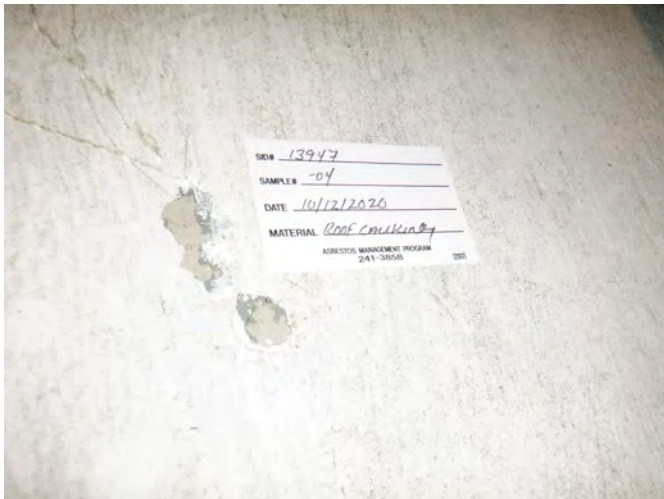
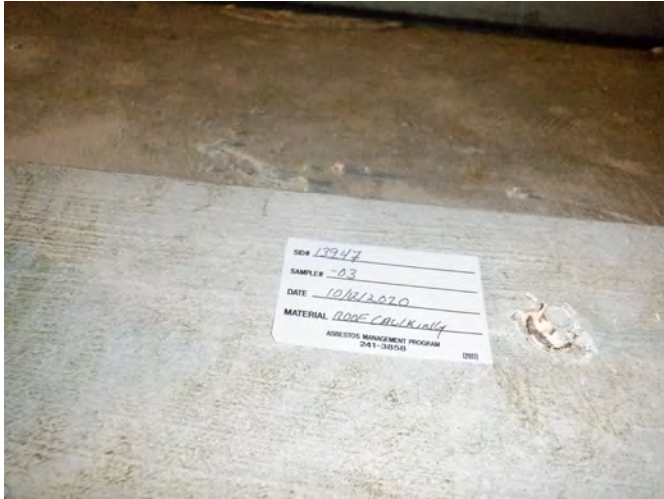


	<b>HA Description</b>	WHITE/BROWN WALL INSULATION
	<b>Sample #</b>	<b>SID13947-01</b> <b>SID13947-02</b>
	<b>Sample Location / Orientation</b>	SID13947-01– West side above ceiling SID13947-02 – West side above ceiling
	<b>Sample/Inspection Results</b>	SID13947-01 – None Detected SID13947-02 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035E DEMOLITION PROJECT SID 13947

**Date: 10/12/2020**

**Inspector: Carson Vick**



	<b>HA Description</b>	WHITE ROOF CAULKING/Coating
	<b>Sample #</b>	<b>SID13947-03</b> <b>SID13947-04</b>
	<b>Sample Location / Orientation</b>	SID13947-03– Southwest corner of roof SID13947-04 – Southeast corner of roof.
	<b>Sample/Inspection Results</b>	SID13947-03 – None Detected SID13947-04 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035E DEMOLITION PROJECT SID 13947

**Date: 10/12/2020**

**Inspector: Carson Vick**

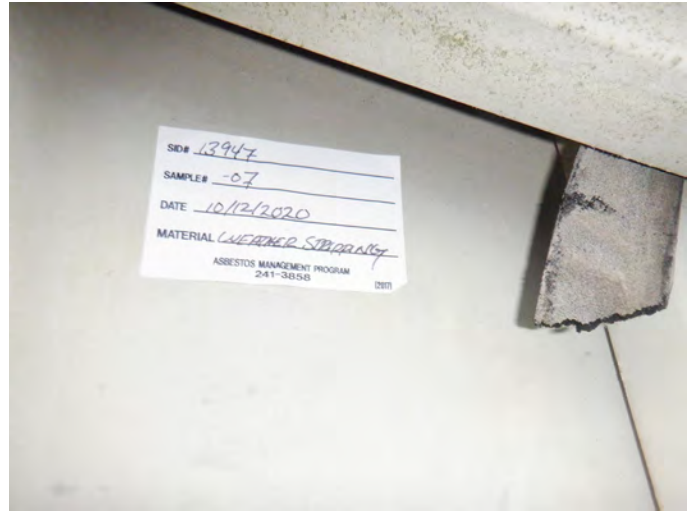


	<b>HA Description</b>	TAN FOAM INSULATION
	<b>Sample #</b>	<b>SID13947-05</b>
	<b>Sample Location / Orientation</b>	SID13947-05– South side exterior of building
	<b>Sample/Inspection Results</b>	SID13947-05 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035E DEMOLITION PROJECT SID 13947

**Date: 10/12/2020**

**Inspector: Carson Vick**

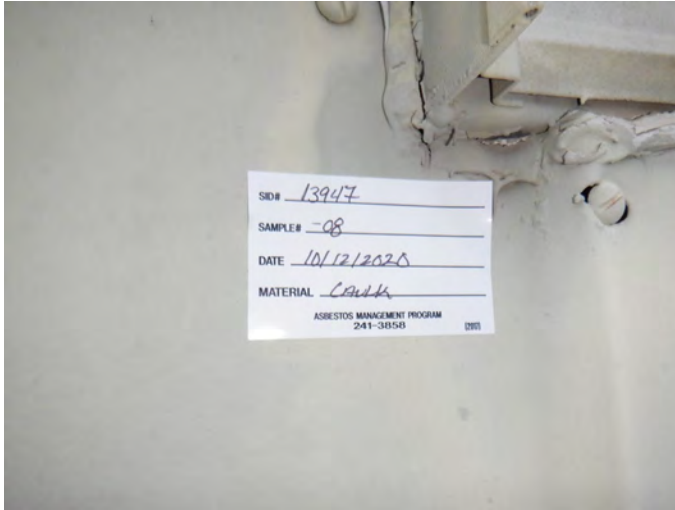


	<b>HA Description</b>	BLACK WEATHER STRIPPING
	<b>Sample #</b>	<b>SID13947-06</b> <b>SID13947-07</b>
	<b>Sample Location / Orientation</b>	SID13947-05– Southeast corner, exterior SID13947-07– Northeast corner, exterior
	<b>Sample/Inspection Results</b>	SID13947-06 – None Detected SID13947-07– None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035E DEMOLITION PROJECT SID 13947

**Date: 10/12/2020**

**Inspector: Carson Vick**



	<b>HA Description</b>	GRAY CAULK
	<b>Sample #</b>	<b>SID13947-08</b> <b>SID13947-09</b>
	<b>Sample Location / Orientation</b>	SID13947-08– Southside exterior vent SID13947-09– Southside exterior vent
	<b>Sample/Inspection Results</b>	SID13947-08 – None Detected SID13947-09– None Detected
	<b>Recommendation</b>	None



# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035E DEMOLITION PROJECT SID 13947

**Date: 10/12/2020**

**Inspector: Carson Vick**

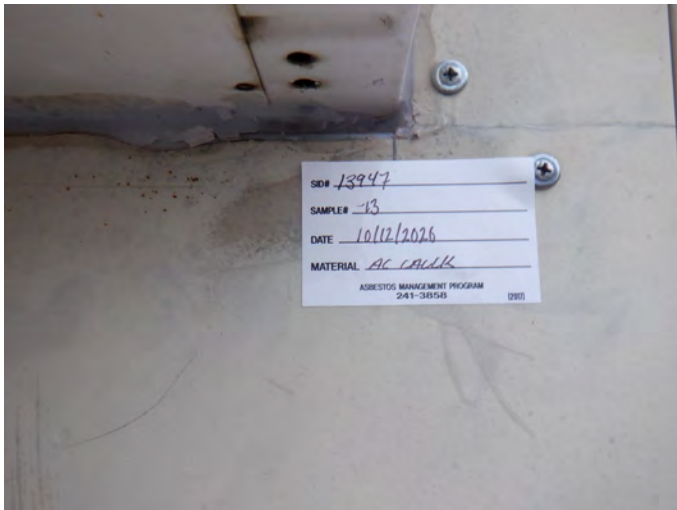
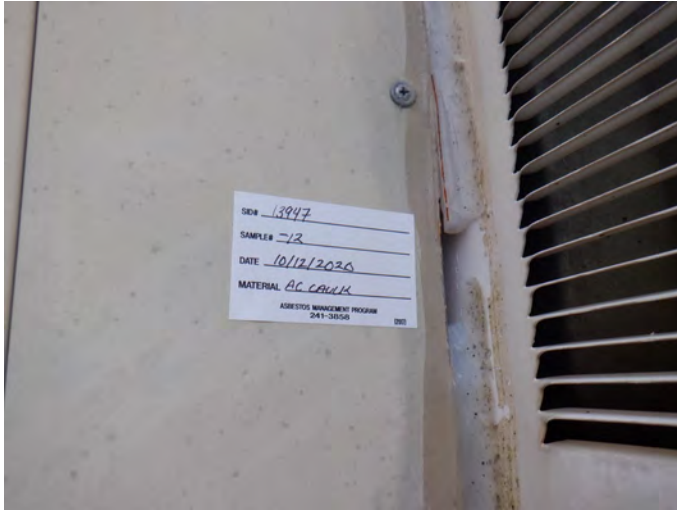


	<b>HA Description</b>	WINDOW GLAZING
	<b>Sample #</b>	<b>SID13947-10</b> <b>SID13947-11</b>
	<b>Sample Location / Orientation</b>	SID13947-10– East side door, lower pane SID13947-11– East side door, upper pane
	<b>Sample/Inspection Results</b>	SID13947-10 – None Detected SID13947-11– None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035E DEMOLITION PROJECT SID 13947

**Date: 10/12/2020**

**Inspector: Carson Vick**



	<b>HA Description</b>	CLEAR CAULK
	<b>Sample #</b>	<b>SID13947-12</b> <b>SID13947-13</b>
	<b>Sample Location / Orientation</b>	SID13947-12– AC unit, west side exterior SID13947-13– AC unite, west side exterior
	<b>Sample/Inspection Results</b>	SID13947-12 – None Detected SID13947-13– None Detected
	<b>Recommendation</b>	None

## Sample Survey Profile Report

### Survey Profile Report - Survey Coversheet

Survey ID: **SID13947**  
 Status: **OPEN**  
 Survey Title: **ASBESTOS\_BULK\_BLDG\_7035E\_SUITE  
 DEMO\_10/08/2020**  
 Survey Date **08-OCT-2020**  
 Location: **7035E**  
 IH-Safety officer: **HANCOCK,JULIA (00034540)**  
 Primary Sampler: **VICK,CARSON (03026158)**

### Request Description

#### Description of and Purpose for Sampling:

Sampling for Bldg 7035 Suite (7035A, 7035B, 7035C, 7035E, 7035F) for demolition in support of the CRSF demo. Results to Nilay Jhaveri, Wendell Ely and Aaron Hicks.

#### Description of Sample Equipment and Placement While Sampling:

See attachments for sample details.

#### Description of Sampling Method:

Bulk Sampling.

Sample Rationale: **FACILITY CHARACTERIZATION**

### Analytical Method

Sampling Matrix/Device: BULK MATERIAL

Sampling Method: ASBESTOS/IOP 01-12.01\_BULK

#### Description of Analysis Requested (for lab personnel)

Asbestos PLM

### Survey Discussion

#### Discussion of Results, Expectations and History

Results for the materials consisting of wall insulation, roof caulking/coating, window glazing, weather stripping, spray foam filler insulation, and caulking were None Detected; therefore, no asbestos was seen during analysis.

Inspection revealed transite is present and assumption is that it is present behind the plywood walls and located on all four walls at ~ 600 sq ft. Floor is concrete, roof is metal, and ceiling tiles are styrofoam. Transite is known to contain asbestos.

#### Recommendations to Workers and Management

Transite walls shall be treated as ACM.

### Survey Attachments

	Description of Attachment	Filename When Uploaded

<a href="#">View/Download</a>	SID13947 Sample Plan	Bldg 7035 Suite Sample Plan REV1.docx
<a href="#">View/Download</a>	SID13947 Sample Request Form	Sampling Request SIDXXX Bldg 7035 Suite Facilities.docx
<a href="#">View/Download</a>	SID13947 Sample Inspection Form	SID13947 Asbestos Inspection Form.pdf
<a href="#">View/Download</a>	SID13947 7035E Field Notes Sample Log.pdf	SID13947 7035E Field Notes Sample Log.pdf
<a href="#">View/Download</a>	HA List for 7035E_7035F (1990) Demolition.docx	HA List for 7035E_7035F (1990) Demolition.docx
<a href="#">View/Download</a>	SID13947 Sample Results	HancockSID13947.pdf
<a href="#">View/Download</a>	SID13947 Characterization Photo File FINAL	SID13947 Characterization Photo File Bldg 7035E FINAL.pdf

## Tracking

Sample Date (or start) **08-OCT-2020**

## Sample results list

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
<a href="#">SID13947-01</a>	08-OCT-2020	BULK SAMPLING	INSULATION MATERIAL		7035E	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13947-02</a>	08-OCT-2020	BULK SAMPLING	INSULATION MATERIAL		7035E	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13947-03</a>	12-OCT-2020	BULK SAMPLING	ROOF COATING		7035E	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13947-04</a>	12-OCT-2020	BULK SAMPLING	ROOF COATING		7035E	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13947-05</a>	12-OCT-2020	BULK SAMPLING	FILLERS, WALLS		7035E	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13947-06</a>	12-OCT-2020	BULK SAMPLING	MISCELLANEOUS		7035E	ASBESTOS - PLM	NONEDETECT	PERC	1.0
<a href="#">SID13947-07</a>	12-OCT-2020	BULK SAMPLING	MISCELLANEOUS		7035E	ASBESTOS - PLM	NONEDETECT	PERC	1.0
<a href="#">SID13947-08</a>	12-OCT-2020	BULK SAMPLING	CAULKING NOT WINDOWS		7035E	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13947-09</a>	12-OCT-2020	BULK SAMPLING	CAULKING NOT WINDOWS		7035E	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13947-10</a>	12-OCT-2020	BULK SAMPLING	WINDOW GLAZING		7035E	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13947-11</a>	12-OCT-2020	BULK SAMPLING	WINDOW GLAZING		7035E	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13947-12</a>	12-OCT-2020	BULK SAMPLING	CAULKING NOT WINDOWS		7035E	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13947-13</a>	12-OCT-2020	BULK SAMPLING	CAULKING NOT WINDOWS		7035E	ASBESTOS - PLM	NONEDETECT	PERC	1

## SAMPLE DETAIL

Sample ID: SID13947-01 Survey ID: SID13947

Sample ID: **SID13947-01**Survey ID: **SID13947**Sample Date: **08-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **INSULATION MATERIAL**Location: **7035E**

## Sample Detail

White/brown fiberglass wall insulation. Located on west wall above ceiling.

## Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**

## Other

Operation Status: **ACTIVE**Area Category: **STORAGE**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID13947-02 Survey ID: SID13947

Sample ID: **SID13947-02**Survey ID: **SID13947**Sample Date: **08-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **INSULATION MATERIAL**Location: **7035E****Sample Detail**

White/brown fiberglass wall insulation. Located on west wall above ceiling.

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE****Other**Operation Status: **ACTIVE**Area Category: **STORAGE**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

**Sample Discussion**

Sample Comments

Analysis revealed the gray/yellow fibrous insulation layer and the brown/black/silver fibrous wrap layer as both None Detected; with overall results as None Detected.

## SAMPLE DETAIL

Sample ID: SID13947-03 Survey ID: SID13947

Sample ID: **SID13947-03**Survey ID: **SID13947**Sample Date: **12-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **ROOF COATING**Location: **7035E****Sample Detail**

White roof caulking/coating. Located on southwest corner of roof.

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE****Other**Operation Status: **ACTIVE**Area Category: **STORAGE**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID13947-04 Survey ID: SID13947

Sample ID: **SID13947-04**

Survey ID: **SID13947**  
 Sample Date: **12-OCT-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **ROOF COATING**  
 Location: **7035E**

**Sample Detail**

White roof caulking/coating. Located on southeast corner of roof.

**Sort Groups**

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**

**Other**

Operation Status: **ACTIVE**  
 Area Category: **STORAGE**  
 Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDTECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: **SID13947-05** Survey ID: **SID13947**

Sample ID: **SID13947-05**  
 Survey ID: **SID13947**  
 Sample Date: **12-OCT-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **FILLERS, WALLS**  
 Location: **7035E**

**Sample Detail**

Tan foam insulation. Located on south exterior.

**Sort Groups**

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**

**Other**

Operation Status: **ACTIVE**  
 Area Category: **STORAGE**  
 Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDTECT	PERC		1	OSHA

**Sample Discussion**

Sample Comments

HA-03 (E & F)

## SAMPLE DETAIL

Sample ID: **SID13947-06** Survey ID: **SID13947**

Sample ID: **SID13947-06**  
 Survey ID: **SID13947**  
 Sample Date: **12-OCT-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **MISCELLANEOUS**  
 Location: **7035E**

**Sample Detail**

Black weather stripping. Located on southeast exterior.

#### Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**

#### Other

Operation Status: **ACTIVE**

Area Category: **STORAGE**

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

#### Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONDETECT	PERC		1.0	OSHA

#### SAMPLE DETAIL

Sample ID: **SID13947-07** Survey ID: **SID13947**

Sample ID: **SID13947-07**

Survey ID: **SID13947**

Sample Date: **12-OCT-2020**

Assessment: **BULK SAMPLING**

Result Type: **MISCELLANEOUS**

Location: **7035E**

#### Sample Detail

Black weather stripping. Located on northeast exterior.

#### Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**

#### Other

Operation Status: **ACTIVE**

Area Category: **STORAGE**

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

#### Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONDETECT	PERC		1.0	OSHA

#### SAMPLE DETAIL

Sample ID: **SID13947-08** Survey ID: **SID13947**

Sample ID: **SID13947-08**

Survey ID: **SID13947**

Sample Date: **12-OCT-2020**

Assessment: **BULK SAMPLING**

Result Type: **CAULKING NOT WINDOWS**

Location: **7035E**

#### Sample Detail

Gray caulk. Exterior vent, south side.

#### Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**

#### Other

Operation Status: **ACTIVE**

Area Category: **STORAGE**

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

#### Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID13947-09 Survey ID: SID13947

Sample ID: **SID13947-09**

Survey ID: **SID13947**

Sample Date: **12-OCT-2020**

Assessment: **BULK SAMPLING**

Result Type: **CAULKING NOT WINDOWS**

Location: **7035E**

#### Sample Detail

Gray caulk. Exterior vent, south side.

#### Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**

#### Other

Operation Status: **ACTIVE**

Area Category: **STORAGE**

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

#### Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID13947-10 Survey ID: SID13947

Sample ID: **SID13947-10**

Survey ID: **SID13947**

Sample Date: **12-OCT-2020**

Assessment: **BULK SAMPLING**

Result Type: **WINDOW GLAZING**

Location: **7035E**

#### Sample Detail

White window glazing/caulk. East side door, lower pane.

#### Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**

#### Other

Operation Status: **ACTIVE**

Area Category: **STORAGE**

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

#### Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID13947-11 Survey ID: SID13947

Sample ID: **SID13947-11**

Survey ID: **SID13947**

Sample Date: **12-OCT-2020**

Assessment: **BULK SAMPLING**

Result Type: **WINDOW GLAZING**

Location: **7035E**



**Sample Detail**

White window glazing/caulk. East side door, upper pane.

**Sort Groups**

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**

**Other**

Operation Status: **ACTIVE**

Area Category: **STORAGE**

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: **SID13947-12** Survey ID: **SID13947**

Sample ID: **SID13947-12**

Survey ID: **SID13947**

Sample Date: **12-OCT-2020**

Assessment: **BULK SAMPLING**

Result Type: **CAULKING NOT WINDOWS**

Location: **7035E**

**Sample Detail**

Clear caulk. West exterior AC unit.

**Sort Groups**

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**

**Other**

Operation Status: **ACTIVE**

Area Category: **STORAGE**

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: **SID13947-13** Survey ID: **SID13947**

Sample ID: **SID13947-13**

Survey ID: **SID13947**

Sample Date: **12-OCT-2020**

Assessment: **BULK SAMPLING**

Result Type: **CAULKING NOT WINDOWS**

Location: **7035E**

**Sample Detail**

Clear caulk. West exterior AC unit.

**Sort Groups**

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**

**Other**

Operation Status: **ACTIVE**

Area Category: **STORAGE**

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

Sample Results								
Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035E DEMOLITION PROJECT SID 14202

**Date: 01/13/2021**

**Inspector: Miranda Liner**



HA-7035E-003	<b>HA Description</b>	TAN FOAM FILLER
	<b>Sample #</b>	SID14202-01
	<b>Sample Location / Orientation</b>	SID14202-01– Southeast side of building exterior
	<b>Sample/Inspection Results</b>	SID14202-01 – None Detected
	<b>Recommendation</b>	None

## Sample Survey Profile Report

### Survey Profile Report - Survey Coversheet

Survey ID: **SID14202**  
 Status: **OPEN**  
 Survey Title: **ASBESTOS\_BULK\_7035E\_CONTINUED  
 CHARACTERIZATION\_01/13/2021**  
 Survey Date: **13-JAN-2021**  
 Location: **7035E**  
 IH-Safety officer: **HANCOCK,JULIA (00034540)**  
 Primary Sampler: **LINER,MIRANDA (03084423)**

### Request Description

#### Description of and Purpose for Sampling:

Determine the presence of asbestos fibers in building materials found in 7035E. Survey supports the CRSF Buildings Demolition Project. Results to Wendell Ely and Aaron Hicks.

NOTE: Survey was created in conjunction with SID13947. See SID13947 for additional samples.

#### Description of Sample Equipment and Placement While Sampling:

See attached for sample locations.

#### Description of Sampling Method:

Bulk Sampling.

Sample Rationale: **FACILITY CHARACTERIZATION**

Work Document Project Code: **3xd87sch**

### Analytical Method

Sampling Matrix/Device: BULK MATERIAL

Sampling Method: ASBESTOS/IOP 01-12.01\_BULK

#### Description of Analysis Requested (for lab personnel)

Asbestos PLM - Bulk Analysis

### Survey Discussion

#### Discussion of Results, Expectations and History

Results for the foam insulation wall filler material were None Detected; therefore, no asbestos was seen during analysis. Inspection revealed transite walls in this facility. See SID13947 for inspection details.

#### Recommendations to Workers and Management

Transite shall be treated as ACM.

### Survey Attachments

	Description of Attachment	Filename When Uploaded

<a href="#">View/Download</a>	SID14202 Sample Plan	Bldg 7035 Suite Sample Plan REV1.docx
<a href="#">View/Download</a>	SID14202 Building Inspection Form	SID13947 Asbestos Inspection Form.pdf
<a href="#">View/Download</a>	SID14202 Sample Request Form	Sampling Request SID XXX Bldg 7035 Suite Facilities.docx
<a href="#">View/Download</a>	SID14202 Sample Log	SID14202 Sample Log.pdf
<a href="#">View/Download</a>	SID14202 Sample Results	HancockSID14202.pdf
<a href="#">View/Download</a>	SID14202 Characterization Photo File	SID14202_Characterization Photo File_Bldg 7035E.pptx
<a href="#">View/Download</a>	SID14202 Characterization Photo File FINAL	SID14202 Characterization Photo File Bldg 7035E FINAL.pdf

## Tracking

Sample Date (or start) **13-JAN-2021**

Sent to Lab **14-JAN-2021**

## Sample results list

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
SID14202-01	13-JAN-2021	BULK SAMPLING	FILLERS, WALLS		7035E	ASBESTOS - PLM	NONEDETECT	PERC	

## SAMPLE DETAIL

Sample ID: SID14202-01 Survey ID: SID14202

Sample ID: **SID14202-01**

Survey ID: **SID14202**

Sample Date: **13-JAN-2021**

Assessment: **BULK SAMPLING**

Result Type: **FILLERS, WALLS**

Location: **7035E**

### Sample Detail

Tan Foam Filler. Located on the south side exterior of 7035E

### Sort Groups

Org Category: **\_N/A**

### Other

Area Category: **STORAGE**

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

### Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC			

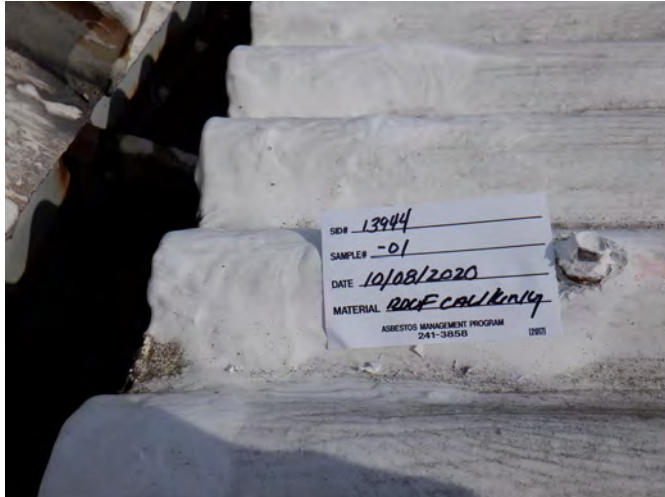
### Sample Discussion

Sample Comments

HA-03 (E & F)

CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035F Demolition  
Project  
SID 13944

<b>Date: 10/08/2020</b>	<b>Inspector: Carson Vick</b>
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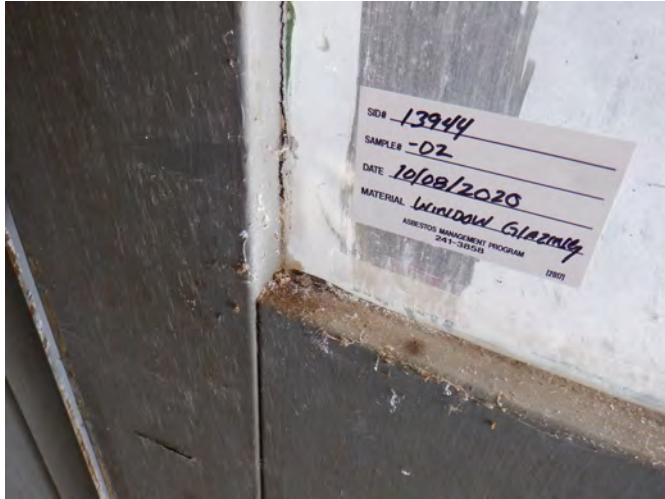


	<b>HA Description</b>	Corrugated Metal Roof Caulking/Coating /White Caulk
	<b>Sample #</b>	<b>SID13944-01</b>
	<b>Sample Location / Orientation</b>	SID13944-01 – Roof/West Side
	<b>Sample/Inspection Results</b>	SID13944-01 – None Detected
	<b>Recommendation</b>	None

CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035F Demolition  
Project  
SID 13944

Date: 10/08/2020

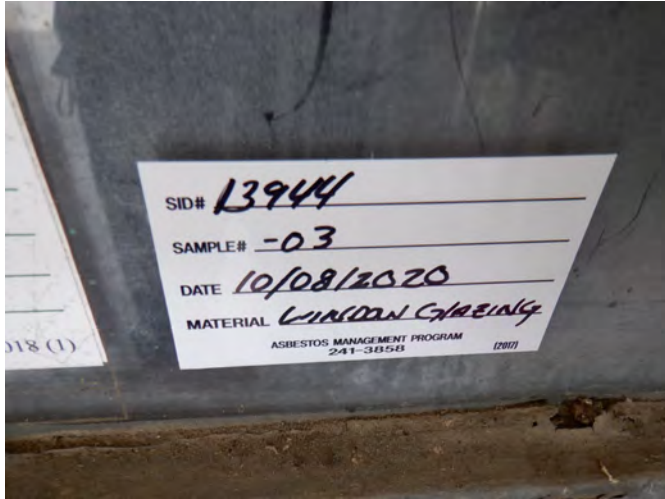
Inspector: Carson Vick



	<b>HA Description</b>	Window Glazing
	<b>Sample #</b>	<b>SID13944-02</b>
	<b>Sample Location / Orientation</b>	SID13944-02 – Door/Inside of Door
	<b>Sample/Inspection Results</b>	SID13944-02 – None Detected
	<b>Recommendation</b>	None

CHARACTERIZATION PHOTO REPORT FOR BUILDING 7035F Demolition  
Project  
SID 13944

<b>Date: 10/08/2020</b>	<b>Inspector: Carson Vick</b>
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	<b>HA Description</b>	Window Glazing
	<b>Sample #</b>	<b>SID13746-03</b>
	<b>Sample Location / Orientation</b>	SID13746-03 – Door/Outside of Door
	<b>Sample/Inspection Results</b>	SID13944-03 – None Detected
	<b>Recommendation</b>	None



## Sample Survey Profile Report

### Survey Profile Report - Survey Coversheet

Survey ID: **SID13944**  
Status: **OPEN**  
Survey Title: **ASBESTOS\_BULK\_BLDG\_7035F\_SUITE  
DEMO\_10/08/2020**  
Survey Date **08-OCT-2020**  
Location: **7035F**  
IH-Safety  
officer: **HANCOCK,JULIA (00034540)**  
Primary  
Sampler: **VICK,CARSON (03026158)**

### Request Description

#### Description of and Purpose for Sampling:

Sampling for Bldg 7035 Suite (7035A, 7035B, 7035C, 7035E, 7035F) for demolition in support of the CRSF demo. Results to Nilay Jhaveri, Wendell Ely and Aaron Hicks.

#### Description of Sample Equipment and Placement While Sampling:

See attachment for sample details.

#### Description of Sampling Method:

Bulk Sampling

Sample Rationale: **FACILITY CHARACTERIZATION**

### Analytical Method

Sampling Matrix/Device: BULK MATERIAL

Sampling Method: ASBESTOS/IOP 01-12.01\_BULK

#### Description of Analysis Requested (for lab personnel)

Asbestos PLM

### Workplace Conditions

#### Workplace Conditions

Work Area

### Survey Discussion

#### Discussion of Results, Expectations and History

Results for the roof caulking/coating and the window glazing materials were None Detected; therefore, no asbestos was seen during analysis.

Inspection revealed corrugated metal roof and metal walls, concrete floors, and armacell (rubber) pipe insulation. These are non-suspect materials therefore, they were not sampled.

#### Recommendations to Workers and Management

None, no asbestos is present.

**Survey Attachments**

	Description of Attachment	Filename When Uploaded
<a href="#">View/Download</a>	Sampling Request SID XXX Bldg 7035 Suite Facilities.docx	Sampling Request SID XXX Bldg 7035 Suite Facilities.docx
<a href="#">View/Download</a>	SID13944 Sample Plan	Bldg 7035 Suite Sample Plan REV1.docx
<a href="#">View/Download</a>	SID13944 Asbestos Inspection Form.pdf	SID13944 Asbestos Inspection Form.pdf
<a href="#">View/Download</a>	SID13944 7035F Field Notes Sample Log.pdf	SID13944 7035F Field Notes Sample Log.pdf
<a href="#">View/Download</a>	HA List for 7035E_7035F (1990) Demolition.docx	HA List for 7035E_7035F (1990) Demolition.docx
<a href="#">View/Download</a>	SID13939 7035C Field Notes Sample Log.pdf	SID13939 7035C Field Notes Sample Log.pdf
<a href="#">View/Download</a>	HA List for 7035A_7035B_7035C (1977) Demolition.docx	HA List for 7035A_7035B_7035C (1977) Demolition.docx
<a href="#">View/Download</a>	SID13944 Sample Results	HancockSID13944.pdf
<a href="#">View/Download</a>	SID13944 Characterization Photo File FINAL	SID13944 Characterization Photo File 7035F FINAL.pdf

**Tracking**Sample Date (or start) **08-OCT-2020****Sample results list**

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
<a href="#">SID13944-01</a>	08-OCT-2020	BULK SAMPLING	ROOF COATING		7035F	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13944-02</a>	08-OCT-2020	BULK SAMPLING	WINDOW GLAZING		7035F	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13944-03</a>	08-OCT-2020	BULK SAMPLING	WINDOW GLAZING		7035F	ASBESTOS - PLM	NONEDETECT	PERC	1

**SAMPLE DETAIL**Sample ID: **SID13944-01** Survey ID: **SID13944**Sample ID: **SID13944-01**Survey ID: **SID13944**Sample Date: **08-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **ROOF COATING**Location: **7035F****Sample Detail**

White metal roof caulking/Coating. Located on the west side exterior.

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE****Other**Operation Status: **ACTIVE**Area Category: **STORAGE**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID13944-02 Survey ID: SID13944

Sample ID: **SID13944-02**  
 Survey ID: **SID13944**  
 Sample Date: **08-OCT-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **WINDOW GLAZING**  
 Location: **7035F**

## Sample Detail

White window glazing. Inside of door.

## Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**

## Other

Operation Status: **ACTIVE**  
 Area Category: **STORAGE**  
 Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

## Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID13944-03 Survey ID: SID13944

Sample ID: **SID13944-03**  
 Survey ID: **SID13944**  
 Sample Date: **08-OCT-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **WINDOW GLAZING**  
 Location: **7035F**

## Sample Detail

White window glazing. Outside of door.

## Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**

## Other

Operation Status: **ACTIVE**  
 Area Category: **STORAGE**  
 Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

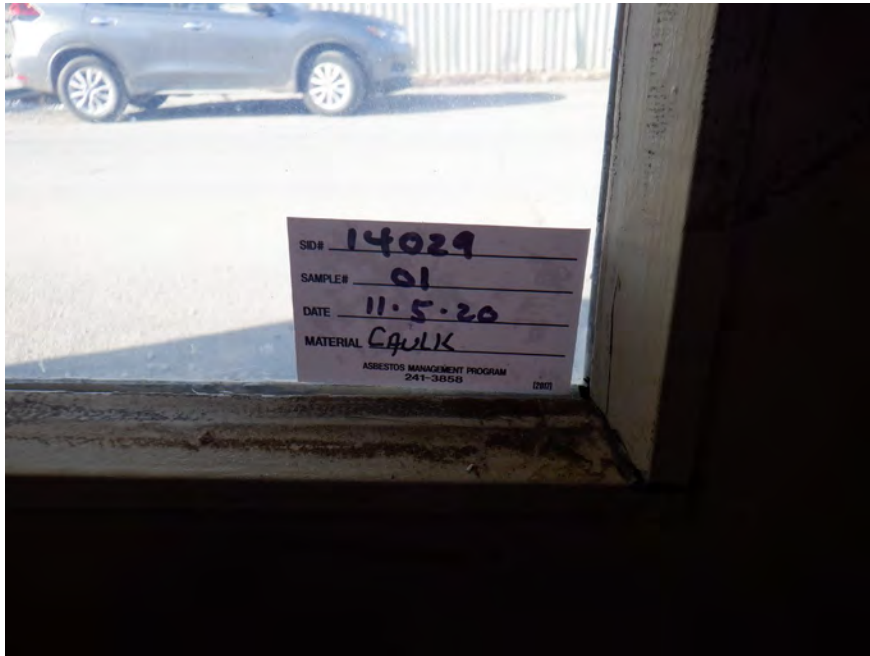
## Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7062 SID 14029

Date: 11/05/2020

Photographer: Carson Vick

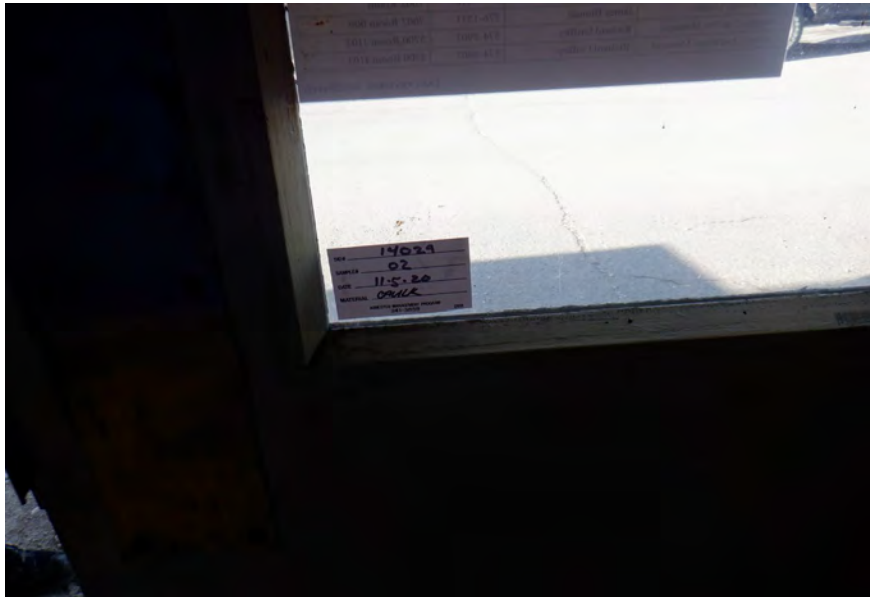
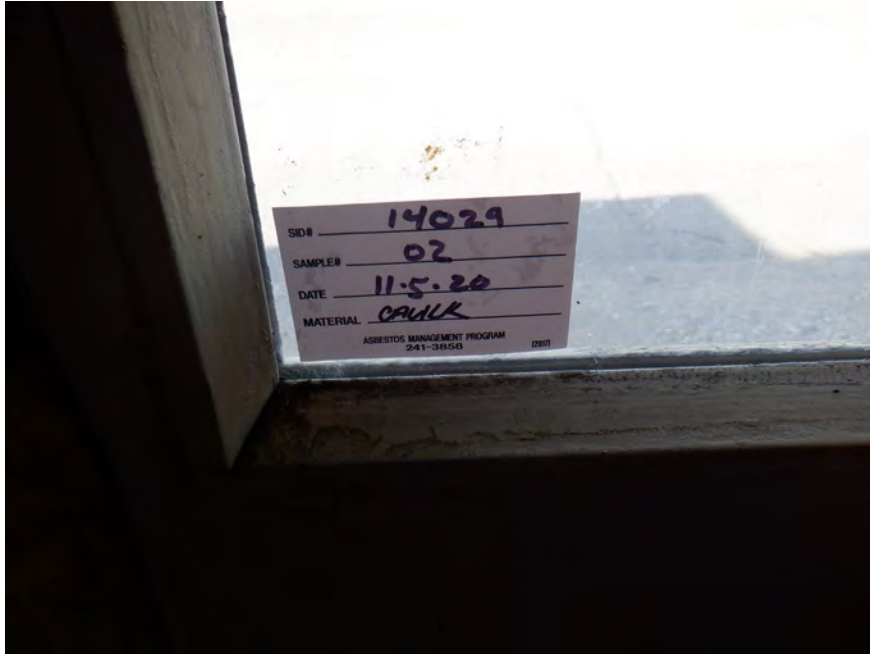


	<b>HA Description</b>	<b>Black Window Caulk</b>
	<b>Sample #</b>	<b>SID14029-01</b>
	<b>Sample Location / Orientation</b>	<b>Interior door, west side</b>
	<b>Sample/Inspection Results</b>	<b>SID14029-01 – 3% Asbestos Chrysotile</b>
	<b>Recommendation</b>	<b>Wrap and dispose of door as non-friable asbestos waste.</b>

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7062 SID 14029

Date: 11/05/2020

Photographer: Carson Vick



	<b>HA Description</b>	Black Window Caulk
	<b>Sample #</b>	SID14029-02
	<b>Sample Location / Orientation</b>	Interior door, west side
	<b>Sample/Inspection Results</b>	SID14029-02 – 3% Asbestos Chrysotile
	<b>Recommendation</b>	Wrap and dispose of door as non-friable asbestos waste.

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7062 SID 14029

Date: 11/05/2020

Photographer: Carson Vick



	<b>HA Description</b>	<b>Yellow Foam Insulation / Filler, Walls</b>
	<b>Sample #</b>	<b>SID14029-03</b>
	<b>Sample Location / Orientation</b>	<b>NW exterior between wall and roof</b>
	<b>Sample/Inspection Results</b>	<b>SID14029-03 – None Detected</b>
	<b>Recommendation</b>	<b>None</b>

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7062 SID 14029

Date: 11/05/2020

Photographer: Carson Vick

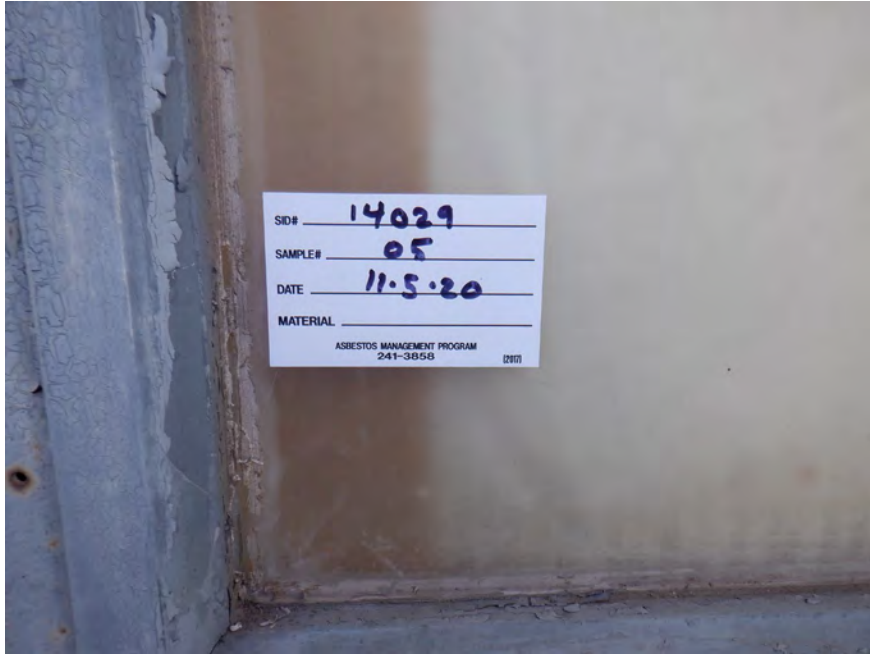


	<b>HA Description</b>	<b>White Fiberglass Insulation</b>
	<b>Sample #</b>	<b>SID14029-04</b>
	<b>Sample Location / Orientation</b>	<b>NW exterior between layers of roof</b>
	<b>Sample/Inspection Results</b>	<b>SID14029-04 – None Detected</b>
	<b>Recommendation</b>	<b>None</b>

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7062 SID 14029

**Date: 11/05/2020**

**Photographer: Carson Vick**



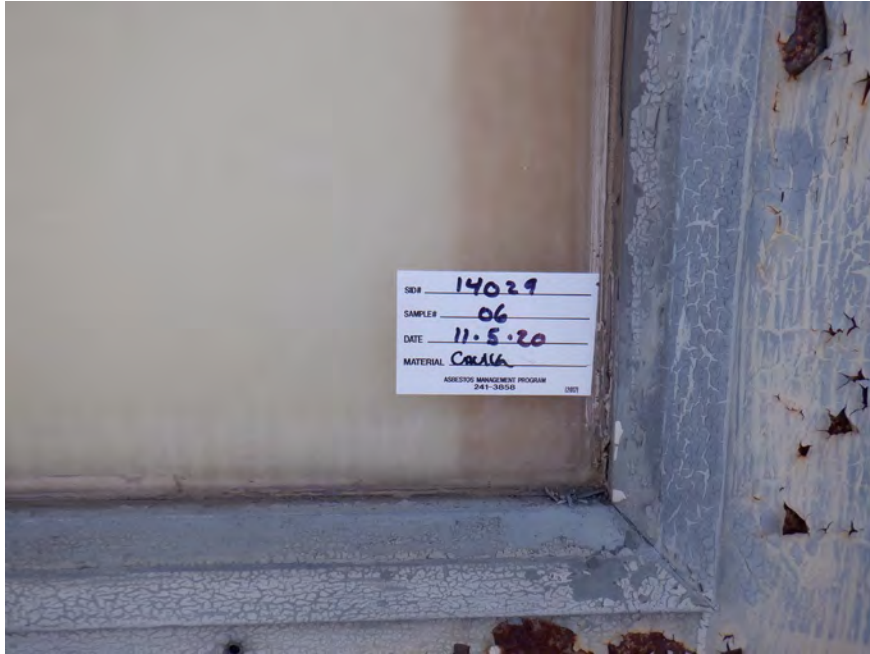
	<b>HA Description</b>	White Caulk
	<b>Sample #</b>	SID14029-05
	<b>Sample Location / Orientation</b>	Exterior door, west side
	<b>Sample/Inspection Results</b>	SID14029-05 – None Detected
	<b>Recommendation</b>	None



# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7062 SID 14029

**Date: 11/05/2020**

**Photographer: Carson Vick**



	<b>HA Description</b>	White Caulk
	<b>Sample #</b>	SID14029-06
	<b>Sample Location / Orientation</b>	Exterior door, west side
	<b>Sample/Inspection Results</b>	SID14029-06 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7062 SID 14029

Date: 11/05/2020

Photographer: Carson Vick



	<b>HA Description</b>	<b>Yellow Foam Insulation / Filler Walls</b>
	<b>Sample #</b>	<b>SID14029-07</b>
	<b>Sample Location / Orientation</b>	<b>West wall</b>
	<b>Sample/Inspection Results</b>	<b>SID14029-07 – None Detected</b>
	<b>Recommendation</b>	<b>None</b>

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7062 SID 14029

Date: 11/05/2020

Photographer: Carson Vick



	<b>HA Description</b>	<b>Yellow Foam Insulation / Filler Walls</b>
	<b>Sample #</b>	<b>SID14029-08</b>
	<b>Sample Location / Orientation</b>	<b>West wall</b>
	<b>Sample/Inspection Results</b>	<b>SID14029-08 – None Detected</b>
	<b>Recommendation</b>	<b>None</b>

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7062 SID 14029

**Date: 11/05/2020**

**Photographer: Carson Vick**



	<b>HA Description</b>	White Roof Caulk/Coating
	<b>Sample #</b>	SID14029-09
	<b>Sample Location / Orientation</b>	NW side of roof
	<b>Sample/Inspection Results</b>	SID14029-09 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7062 SID 14029

Date: 11/05/2020

Photographer: Carson Vick



	<b>HA Description</b>	White Roof Caulk/Coating
	<b>Sample #</b>	SID14029-10
	<b>Sample Location / Orientation</b>	SE side of roof
	<b>Sample/Inspection Results</b>	SID14029-10 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7062 SID 14029

Date: 11/05/2020

Photographer: Carson Vick



	<b>HA Description</b>	Window Glazing
	<b>Sample #</b>	SID14029-11
	<b>Sample Location / Orientation</b>	North interior window
	<b>Sample/Inspection Results</b>	SID14029-11 – 3% Asbestos Chrysotile
	<b>Recommendation</b>	Wrap and Dispose of window as non-friable asbestos waste

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7062 SID 14029

**Date: 11/05/2020**

**Photographer: Carson Vick**



	<b>HA Description</b>	<b>Window Glazing</b>
	<b>Sample #</b>	<b>SID14029-12</b>
	<b>Sample Location / Orientation</b>	<b>South interior window</b>
	<b>Sample/Inspection Results</b>	<b>SID14029-12 – 3% Asbestos Chrysotile</b>
	<b>Recommendation</b>	<b>Wrap and dispose of window as non-friable asbestos waste.</b>

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7062 SID 14029

Date: 11/05/2020

Photographer: Carson Vick



	<b>HA Description</b>	White Caulk Painted Blue
	<b>Sample #</b>	SID14029-13
	<b>Sample Location / Orientation</b>	South facing exterior door window
	<b>Sample/Inspection Results</b>	SID14029-13 – None Detected
	<b>Recommendation</b>	None



# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7062 SID 14029

Date: 11/05/2020

Photographer: Carson Vick



	<b>HA Description</b>	White Caulk Painted Blue
	<b>Sample #</b>	SID14029-14
	<b>Sample Location / Orientation</b>	South facing exterior door window, room 101
	<b>Sample/Inspection Results</b>	SID14029-14 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7062 SID 14029

**Date: 11/05/2020**

**Photographer: Carson Vick**



	<b>HA Description</b>	<b>White Caulk</b>
	<b>Sample #</b>	<b>SID14029-15</b>
	<b>Sample Location / Orientation</b>	<b>North side exterior AC unit</b>
	<b>Sample/Inspection Results</b>	<b>SID14029-15 – None Detected</b>
	<b>Recommendation</b>	<b>None</b>

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7062 SID 14029

**Date: 11/05/2020**

**Photographer: Carson Vick**



	<b>HA Description</b>	White Caulk
	<b>Sample #</b>	SID14029-16
	<b>Sample Location / Orientation</b>	North side exterior AC unit
	<b>Sample/Inspection Results</b>	SID14029-16 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7062 SID 14029

**Date: 11/05/2020**

**Photographer: Carson Vick**



	<b>HA Description</b>	<b>Yellow Foam Insulation</b>
	<b>Sample #</b>	<b>SID14029-17</b>
	<b>Sample Location / Orientation</b>	<b>NE corner of building between roof layers</b>
	<b>Sample/Inspection Results</b>	<b>SID14029-17 – None Detected</b>
	<b>Recommendation</b>	<b>None</b>

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7062 SID 14029

**Date: 11/05/2020**

**Photographer: Carson Vick**



	<b>HA Description</b>	<b>White Fiberglass Insulation</b>
	<b>Sample #</b>	<b>SID14029-18</b>
	<b>Sample Location / Orientation</b>	<b>NE corner of building between roof and exterior wall.</b>
	<b>Sample/Inspection Results</b>	<b>SID14029-18 – None Detected</b>
	<b>Recommendation</b>	<b>None</b>

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7062 SID 14029

**Date: 11/05/2020**

**Photographer: Carson Vick**



	<b>HA Description</b>	<b>White Caulk</b>
	<b>Sample #</b>	<b>SID14029-19</b>
	<b>Sample Location / Orientation</b>	<b>SE Building exterior</b>
	<b>Sample/Inspection Results</b>	<b>SID14029-19 – None Detected</b>
	<b>Recommendation</b>	<b>None</b>

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7062 SID 14029

**Date: 11/05/2020**

**Photographer: Carson Vick**



	<b>HA Description</b>	White Caulk
	<b>Sample #</b>	SID14029-20
	<b>Sample Location / Orientation</b>	East Building exterior
	<b>Sample/Inspection Results</b>	SID14029-20 – None Detected
	<b>Recommendation</b>	None

## Sample Survey Profile Report

### Survey Profile Report - Survey Coversheet

Survey ID: **SID14029**  
 Status: **OPEN**  
 Survey Title: **ASBESTOS BULK BLDG 7062 FOR  
CRSF DEMO 11/05/2020**  
 Survey Date: **05-NOV-2020**  
 Location: **7062**  
 IH-Safety officer: **HANCOCK,JULIA (00034540)**  
 Primary Sampler: **VICK,CARSON (03026158)**

### Request Description

#### Description of and Purpose for Sampling:

Inspection and sampling of 7062. See attached sampling plan for additional information and listing of suspect and non-suspect materials. Contact information listed on sampling plan. Sampling for Bldg 7062 for demolition in support of the CRSF demo. Results to Nilay Jhaveri, Wendell Ely and Aaron Hicks.

#### Description of Sampling Method:

Bulk Sampling (Asbestos PLM).

Sample Rationale: **FACILITY CHARACTERIZATION**

### Analytical Method

Sampling Matrix/Device: BULK MATERIAL

Sampling Method: ASBESTOS/IOP 01-12.01\_BULK

#### Description of Analysis Requested (for lab personnel)

Asbestos - PLM

### Survey Discussion

#### Discussion of Results, Expectations and History

Bulk sample results for the miscellaneous caulking, window caulking on the exterior of the south and west doors, wall filler, white insulation at roof, yellow filler at roof, roof caulk/coating materials were all None Detected, therefore, no asbestos was present during analysis. However, the black window caulking on the interior of the west facing door and the window glazing of the south interior window and the north exterior window were all 3% asbestos chrysotile. See recommendations below.

Inspection revealed the roof was metal, walls were metal and plywood which was inaccessible to inspect further behind. Floors were concrete. Expansion Joints were not present during inspection. Pipes were insulated with a foam insulation around AC unit.

#### Recommendations to Workers and Management

Remove the west facing door and south and north windows and wrap and dispose of as non-friable asbestos waste utilizing an AWA for work and waste disposal.

### Survey Attachments

	Description of Attachment	Filename When Uploaded



<a href="#">View/Download</a>	SID14029 Sample Log	SID14029 Sample Log.pdf
<a href="#">View/Download</a>	SID14029 Building Inspection Form	Buidling 7062 Asbestos Inspection Form.pdf
<a href="#">View/Download</a>	SID14029 Sample Request Form	Sampling Request SID XXX Bldg 7062 for CRSF Demo.docx
<a href="#">View/Download</a>	SID14029 Sample Plan	Bldg 7062 Sample Plan.docx
<a href="#">View/Download</a>	SID14029 Sample Results	HancockSID14029.pdf
<a href="#">View/Download</a>	SID14029 Characterization Photo File FINAL	SID14029 Characterization Photo File Bldg 7062 FINAL.pdf

## Tracking

Sample Date (or start) **05-NOV-2020**Sent to Lab **06-NOV-2020**

## Sample results list

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
<a href="#">SID14029-01</a>	05-NOV-2020	BULK SAMPLING	WINDOW CAULKING		7062	ASBESTOS - CHRYSOTILE	3	PERC	
<a href="#">SID14029-02</a>	05-NOV-2020	BULK SAMPLING	WINDOW CAULKING		7062	ASBESTOS - CHRYSOTILE	3	PERC	
<a href="#">SID14029-03</a>	05-NOV-2020	BULK SAMPLING	FILLERS, WALLS		7062	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID14029-04</a>	05-NOV-2020	BULK SAMPLING	INSULATION, BATT		7062	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID14029-05</a>	05-NOV-2020	BULK SAMPLING	WINDOW CAULKING		7062	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID14029-06</a>	05-NOV-2020	BULK SAMPLING	WINDOW CAULKING		7062	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID14029-07</a>	05-NOV-2020	BULK SAMPLING	FILLERS, WALLS		7062	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID14029-08</a>	05-NOV-2020	BULK SAMPLING	FILLERS, WALLS		7062	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID14029-09</a>	05-NOV-2020	BULK SAMPLING	ROOF COATING		7062	ASBESTOS - PLM	NONEDETECT	PERC	
<a href="#">SID14029-10</a>	05-NOV-2020	BULK SAMPLING	ROOF COATING		7062	ASBESTOS - PLM	NONEDETECT	PERC	
<a href="#">SID14029-11</a>	05-NOV-2020	BULK SAMPLING	WINDOW GLAZING		7062	ASBESTOS - CHRYSOTILE	3	PERC	
<a href="#">SID14029-12</a>	05-NOV-2020	BULK SAMPLING	WINDOW GLAZING		7062	ASBESTOS - CHRYSOTILE	3	PERC	
<a href="#">SID14029-13</a>	05-NOV-2020	BULK SAMPLING	WINDOW CAULKING		7062	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID14029-14</a>	05-NOV-2020	BULK SAMPLING	WINDOW CAULKING		7062	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID14029-15</a>	05-NOV-2020	BULK SAMPLING	CAULKING NOT WINDOWS		7062	ASBESTOS - PLM	NONEDETECT	PERC	
<a href="#">SID14029-16</a>	05-NOV-2020	BULK SAMPLING	CAULKING NOT WINDOWS		7062	ASBESTOS - PLM	NONEDETECT	PERC	

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
SID14029-17	05-NOV-2020	BULK SAMPLING	FILLERS, WALLS		7062	ASBESTOS - PLM	NONEDETECT	PERC	1
SID14029-18	05-NOV-2020	BULK SAMPLING	INSULATION, BATT		7062	ASBESTOS - PLM	NONEDETECT	PERC	1
SID14029-19	05-NOV-2020	BULK SAMPLING	CAULKING NOT WINDOWS		7062	ASBESTOS - PLM	NONEDETECT	PERC	
SID14029-20	05-NOV-2020	BULK SAMPLING	CAULKING NOT WINDOWS		7062	ASBESTOS - PLM	NONEDETECT	PERC	

## SAMPLE DETAIL

Sample ID: SID14029-01 Survey ID: SID14029

Sample ID: **SID14029-01**Survey ID: **SID14029**Sample Date: **05-NOV-2020**Assessment: **BULK SAMPLING**Result Type: **WINDOW CAULKING**Location: **7062**

## Sample Detail

Black Window Caulk. Located on the interior, west facing door.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL**

## Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - CHRYSOTILE				3	PERC			

## SAMPLE DETAIL

Sample ID: SID14029-02 Survey ID: SID14029

Sample ID: **SID14029-02**Survey ID: **SID14029**Sample Date: **05-NOV-2020**Assessment: **BULK SAMPLING**Result Type: **WINDOW CAULKING**Location: **7062**

## Sample Detail

Black Window Caulk. Located on the interior, west facing door.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL**

## Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - CHRYSOTILE				3	PERC			

## SAMPLE DETAIL

Sample ID: SID14029-03 Survey ID: SID14029

Sample ID: **SID14029-03**Survey ID: **SID14029**Sample Date: **05-NOV-2020**Assessment: **BULK SAMPLING**Result Type: **FILLERS, WALLS**Location: **7062**

**Sample Detail**

Yellow Foam wall filler Insulation. Located on the north exterior between the wall and the roof.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID14029-04 Survey ID: SID14029

Sample ID: **SID14029-04**

Survey ID: **SID14029**

Sample Date: **05-NOV-2020**

Assessment: **BULK SAMPLING**

Result Type: **INSULATION, BATT**

Location: **7062**

**Sample Detail**

White Fiberglass batt Insulation. Located on the northwest exterior between layers of the roof.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID14029-05 Survey ID: SID14029

Sample ID: **SID14029-05**

Survey ID: **SID14029**

Sample Date: **05-NOV-2020**

Assessment: **BULK SAMPLING**

Result Type: **WINDOW CAULKING**

Location: **7062**

**Sample Detail**

White Caulk. Located on the exterior door, west side.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID14029-06 Survey ID: SID14029

Sample ID: **SID14029-06**

Survey ID: **SID14029**

Sample Date: **05-NOV-2020**

Assessment: **BULK SAMPLING**

Result Type: **WINDOW CAULKING**

Location: **7062**

**Sample Detail**

White Caulk. Located on the exterior door, west side.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID14029-07 Survey ID: SID14029

Sample ID: **SID14029-07**Survey ID: **SID14029**Sample Date: **05-NOV-2020**Assessment: **BULK SAMPLING**Result Type: **FILLERS, WALLS**Location: **7062****Sample Detail**

Yellow Foam wall filler Insulation. Located on the west wall interior.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID14029-08 Survey ID: SID14029

Sample ID: **SID14029-08**Survey ID: **SID14029**Sample Date: **05-NOV-2020**Assessment: **BULK SAMPLING**Result Type: **FILLERS, WALLS**Location: **7062****Sample Detail**

Yellow Foam wall filler Insulation. Located on the west wall interior.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID14029-09 Survey ID: SID14029

Sample ID: **SID14029-09**Survey ID: **SID14029**Sample Date: **05-NOV-2020**Assessment: **BULK SAMPLING**Result Type: **ROOF COATING**Location: **7062****Sample Detail**

White Roof Caulk/Coating. North side of the roof.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC			

## SAMPLE DETAIL

Sample ID: SID14029-10 Survey ID: SID14029

Sample ID: **SID14029-10**  
 Survey ID: **SID14029**  
 Sample Date: **05-NOV-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **ROOF COATING**  
 Location: **7062**

## Sample Detail

White Roof Caulk/Coating. Southeast of the roof.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

## Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC			

## SAMPLE DETAIL

Sample ID: SID14029-11 Survey ID: SID14029

Sample ID: **SID14029-11**  
 Survey ID: **SID14029**  
 Sample Date: **05-NOV-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **WINDOW GLAZING**  
 Location: **7062**

## Sample Detail

White Window Glazing on north exterior window.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

## Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - CHRYSOTILE				3	PERC			

## SAMPLE DETAIL

Sample ID: SID14029-12 Survey ID: SID14029

Sample ID: **SID14029-12**  
 Survey ID: **SID14029**  
 Sample Date: **05-NOV-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **WINDOW GLAZING**  
 Location: **7062**

## Sample Detail

White Window Glazing on south interior window.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

## Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - CHRYSOTILE				3	PERC			

## SAMPLE DETAIL

Sample ID: **SID14029-13**  
 Survey ID: **SID14029**  
 Sample Date: **05-NOV-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **WINDOW CAULKING**  
 Location: **7062**

**Sample Detail**

White, Painted Blue Window Caulk. Located on the south exterior door of room 101.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: **SID14029-14** Survey ID: **SID14029**

Sample ID: **SID14029-14**  
 Survey ID: **SID14029**  
 Sample Date: **05-NOV-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **WINDOW CAULKING**  
 Location: **7062**

**Sample Detail**

White, Painted Blue Window Caulk. Located on the south exterior door of room 102.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: **SID14029-15** Survey ID: **SID14029**

Sample ID: **SID14029-15**  
 Survey ID: **SID14029**  
 Sample Date: **05-NOV-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **CAULKING NOT WINDOWS**  
 Location: **7062**

**Sample Detail**

White Caulk around AC. Located on the north side exterior.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC			

## SAMPLE DETAIL

Sample ID: **SID14029-16** Survey ID: **SID14029**

Sample ID: **SID14029-16**  
 Survey ID: **SID14029**  
 Sample Date: **05-NOV-2020**  
 Assessment: **BULK SAMPLING**

Result Type: **CAULKING NOT WINDOWS**Location: **7062****Sample Detail**

White Caulk around AC. Located on the northeast side exterior.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC			

## SAMPLE DETAIL

Sample ID: SID14029-17 Survey ID: SID14029

Sample ID: **SID14029-17**Survey ID: **SID14029**Sample Date: **05-NOV-2020**Assessment: **BULK SAMPLING**Result Type: **FILLERS, WALLS**Location: **7062****Sample Detail**

Yellow Foam wall filler Insulation. Located on the northeast corner.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID14029-18 Survey ID: SID14029

Sample ID: **SID14029-18**Survey ID: **SID14029**Sample Date: **05-NOV-2020**Assessment: **BULK SAMPLING**Result Type: **INSULATION, BATT**Location: **7062****Sample Detail**

White Fiberglass batt Insulation. Located on the northeast corner.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID14029-19 Survey ID: SID14029

Sample ID: **SID14029-19**Survey ID: **SID14029**Sample Date: **05-NOV-2020**Assessment: **BULK SAMPLING**Result Type: **CAULKING NOT WINDOWS**Location: **7062****Sample Detail**

White caulk. Located on southeast building exterior.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC			

SAMPLE DETAIL

Sample ID: **SID14029-20** Survey ID: **SID14029**

Sample ID: **SID14029-20**

Survey ID: **SID14029**

Sample Date: **05-NOV-2020**

Assessment: **BULK SAMPLING**

Result Type: **CAULKING NOT WINDOWS**

Location: **7062**

**Sample Detail**

White caulk. Located on east building exterior.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

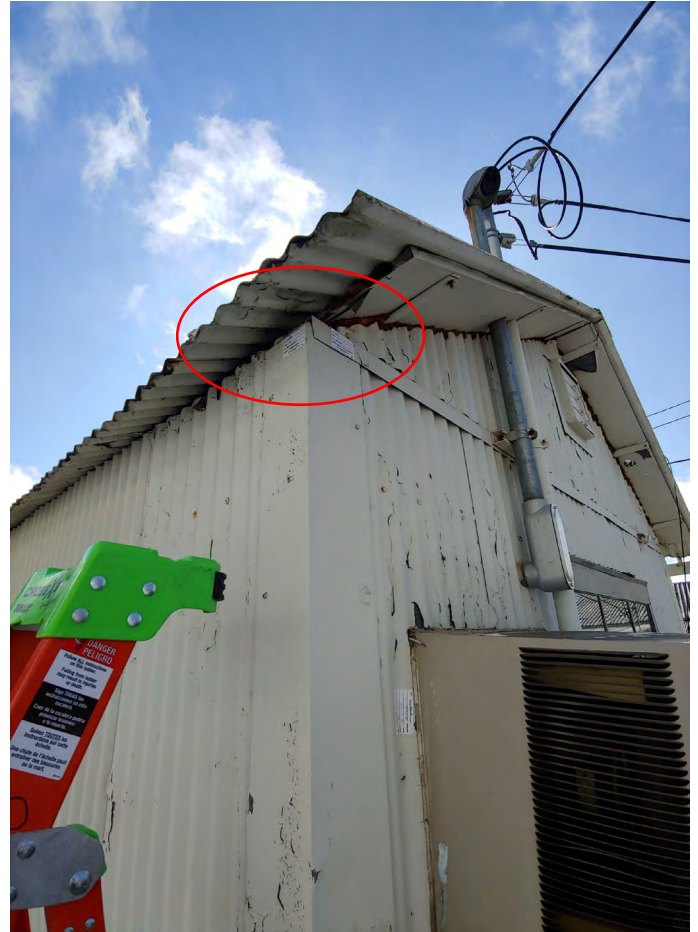
Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC			



# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7062 DEMOLITION PROJECT SID 14199

**Date: 01/13/2021**

**Inspector: Miranda Liner**



	<b>HA Description</b>	WHITE FIBERGLASS INSULATION
	<b>Sample #</b>	SID14199-01
	<b>Sample Location / Orientation</b>	SID14199-01– Northeast corner of building exterior
	<b>Sample/Inspection Results</b>	SID14199-01- None Detected
	<b>Recommendation</b>	None

## Sample Survey Profile Report

### Survey Profile Report - Survey Coversheet

Survey ID: **SID14199**  
 Status: **OPEN**  
 Survey Title: **ASBESTOS\_BULK\_7062\_CONTINUED  
 CHARACTERIZATION\_01/13/2021**  
 Survey Date: **13-JAN-2021**  
 Location: **7062**  
 IH-Safety officer: **HANCOCK,JULIA (00034540)**  
 Primary Sampler: **LINER,MIRANDA (03084423)**

### Request Description

#### Description of and Purpose for Sampling:

Determine the presence of asbestos fibers in building material from 7062 prior to demolition. Survey correlates to SID14029. See SID14029 for additional samples. This supports the CRSF Buildings Demolition project. Send results to Wendell Ely and Aaron Hicks.

#### Description of Sample Equipment and Placement While Sampling:

See attachment for sample photos.

#### Description of Sampling Method:

Bulk Sampling.

Sample Rationale: **FACILITY CHARACTERIZATION**

Work Document Project Code: **3xd87sch**

### Analytical Method

Sampling Matrix/Device: BULK MATERIAL

Sampling Method: ASBESTOS/IOP 01-12.01\_BULK

#### Description of Analysis Requested (for lab personnel)

Asbestos PLM - Bulk Analysis

### Survey Discussion

#### Discussion of Results, Expectations and History

Results for the insulation material were None Detected; therefore, no asbestos was seen during analysis. See SID14029 for additional samples and inspection report.

#### Recommendations to Workers and Management

None, no asbestos present for this sample. See SID14029 for additional samples for asbestos materials.

### Survey Attachments

	Description of Attachment	Filename When Uploaded
<a href="#">View/Download</a>	SID14199 Sample Plan	Bldg 7062 Sample Plan.docx

<a href="#">View/Download</a>	SID14199 Sample Request Form	Sampling Request SID XXX Bldg 7062 for CRSF Demo.docx
<a href="#">View/Download</a>	SID14199 Sample Log	SID14199 Sample Log.pdf
<a href="#">View/Download</a>	Building 7062 Inspection Form	Buidling 7062 Asbestos Inspection Form.pdf
<a href="#">View/Download</a>	SID14199 Sample Results	HancockSID14199.pdf
<a href="#">View/Download</a>	SID14199 Characterization Photo File FINAL	SID14199 Characterization Photo File 7062 FINAL.pdf

## Tracking

Sample Date (or start) **13-JAN-2021**

Sent to Lab **14-JAN-2021**

## Sample results list

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
SID14199-01	13-JAN-2021	BULK SAMPLING	INSULATION, BATT		7062	ASBESTOS - PLM	NoneDetect	PERC	1

## SAMPLE DETAIL

Sample ID: SID14199-01 Survey ID: SID14199

Sample ID: **SID14199-01**

Survey ID: **SID14199**

Sample Date: **13-JAN-2021**

Assessment: **BULK SAMPLING**

Result Type: **INSULATION, BATT**

Location: **7062**

### Sample Detail

White Fiberglass Insulation. Located on the northeast corner of the building's exterior.

### Sort Groups

Org Category: **\_N/A**

### Other

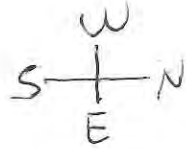
Area Category: **STORAGE**

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

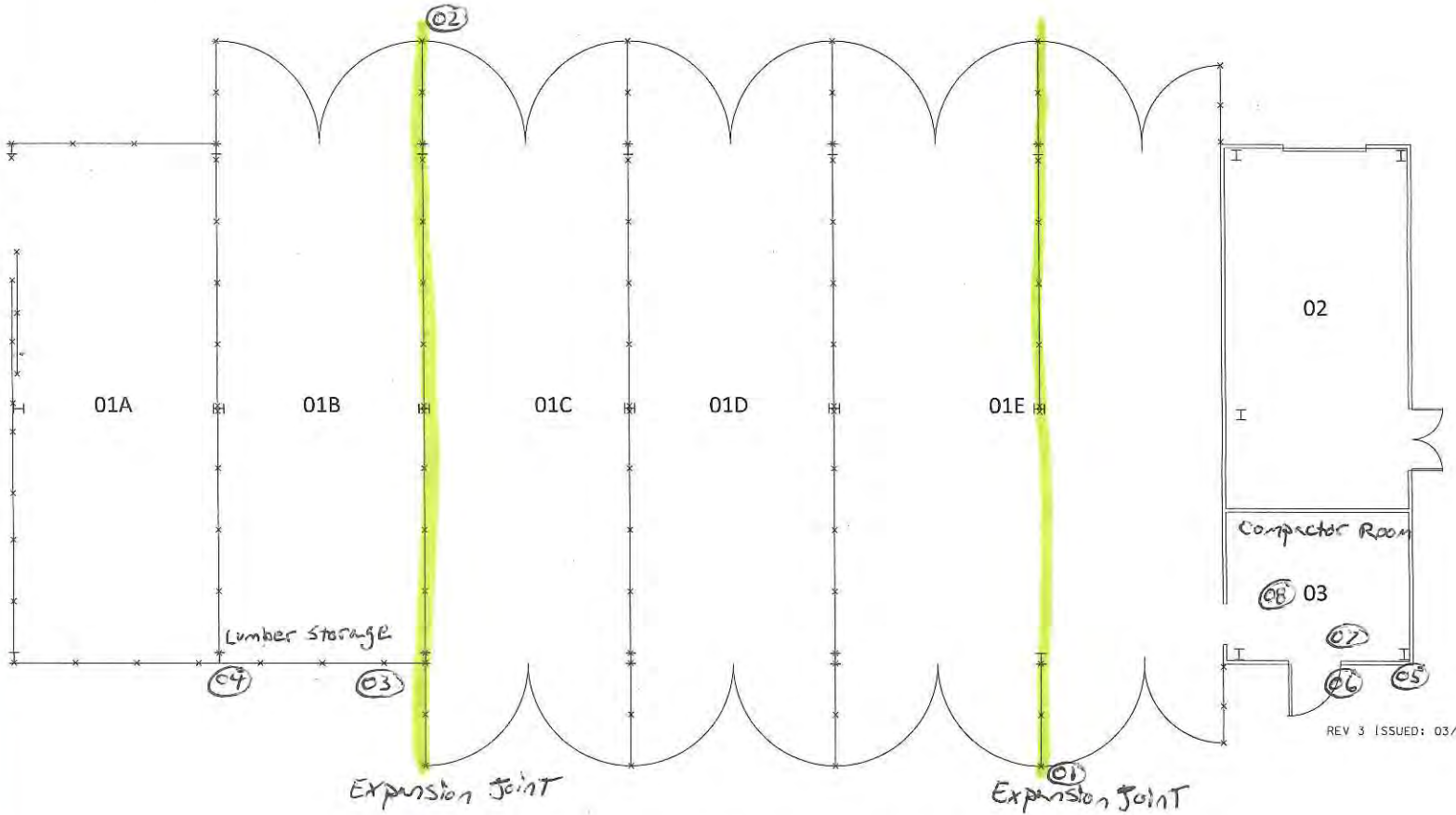
Sample Matrix/Device: **BULK MATERIAL**

### Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NoneDetect	PERC		1	OSHA



Expansion Joint Locations East to West  
and Sample Locations



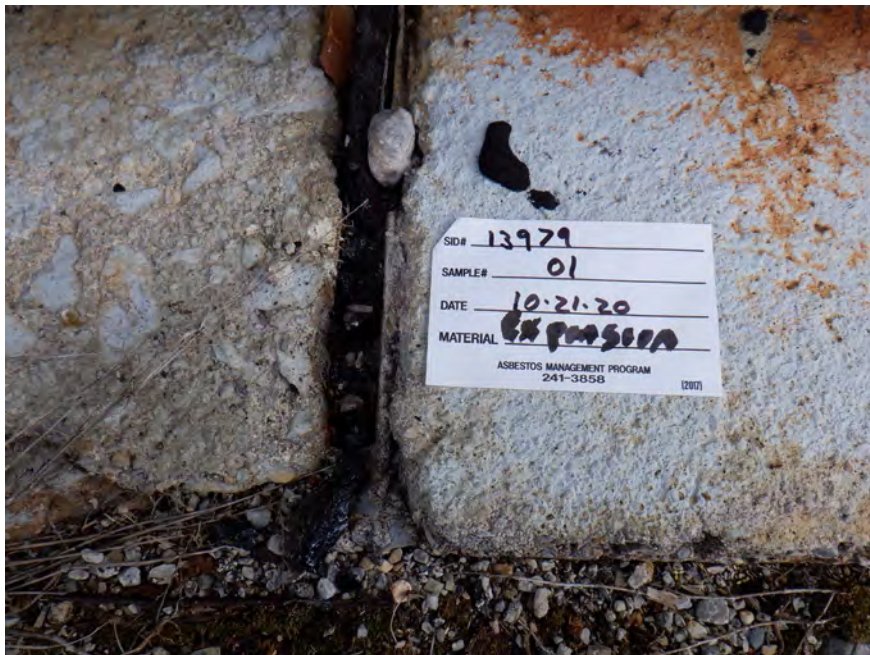
REV 3 ISSUED: 03/16

# BUILDING 7070 FIRST FLOOR PLAN

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7070 SID 13979

**Date: 10/21/2020**

**Photographer: Carson Vick**



	<b>HA Description</b>	<b>Black expansion joint</b>
	<b>Sample #</b>	<b>SID13979-01</b>
	<b>Sample Location / Orientation</b>	<b>East side of building below green gate.</b>
	<b>Sample/Inspection Results</b>	<b>SID13979-01 - None Detected</b>
	<b>Recommendation</b>	<b>None</b>

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7070 SID 13979

**Date: 10/21/2020**

**Photographer: Carson Vick**



	<b>HA Description</b>	<b>Black expansion joint</b>
	<b>Sample #</b>	<b>SID13979-02</b>
	<b>Sample Location / Orientation</b>	<b>West side of building below lumber storage gate.</b>
	<b>Sample/Inspection Results</b>	<b>SID13979-02 - None Detected</b>
	<b>Recommendation</b>	<b>None</b>

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7070 SID 13979

**Date:** 10/21/2020

**Photographer:** Carson Vick



	<b>HA Description</b>	<b>Black tar flashing w/white paper cover</b>
	<b>Sample #</b>	<b>SID13979-03</b>
	<b>Sample Location / Orientation</b>	<b>East side of building in front of lumber storage. North of sample 04.</b>
	<b>Sample/Inspection Results</b>	<b>SID13979-03 - 3% Asbestos Chrysotile – Silver Paint None Detected - Black Tar Felt</b>
	<b>Recommendation</b>	<b>Silver Paint Coating on Flashing is ACM.</b>

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7070 SID 13979

Date: 10/21/2020

Photographer: Carson Vick



	<b>HA Description</b>	Black tar flashing w/white paper cover
	<b>Sample #</b>	SID13979-04
	<b>Sample Location / Orientation</b>	East side of building in front of lumber storage. South of sample 03.
	<b>Sample/Inspection Results</b>	SID13979-04 - 3% Asbestos Chrysotile – Silver Paint None Detected - Black Tar Felt
	<b>Recommendation</b>	Silver Paint Coating on Flashing is ACM.



# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7070 SID 13979

**Date: 10/21/2020**

**Photographer: Carson Vick**



<b>HA Description</b>	Gray caulk
<b>Sample #</b>	SID13979-05
<b>Sample Location / Orientation</b>	Outside NE corner of building on east side. Between corrugated metal wall and concrete floor. North of sample 06.
<b>Sample/Inspection Results</b>	SID13979-05 -None Detected
<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7070 SID 13979

**Date:** 10/21/2020

**Photographer:** Carson Vick



	<b>HA Description</b>	Gray caulk
	<b>Sample #</b>	SID13979-06
	<b>Sample Location / Orientation</b>	Outside east side of building. Between corrugated metal wall and concrete floor. South of sample 05.
	<b>Sample/Inspection Results</b>	SID13979-06 - None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7070 SID 13979

**Date:** 10/21/2020

**Photographer:** Carson Vick



	<b>HA Description</b>	Cellulose ceiling tile (2X4)
	<b>Sample #</b>	SID13979-07
	<b>Sample Location / Orientation</b>	East side of compactor room (room 03).
	<b>Sample/Inspection Results</b>	SID13979-07 - None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7070 SID 13979

**Date: 10/21/2020**

**Photographer: Carson Vick**



	<b>HA Description</b>	Cellulose ceiling tile (2X4)
	<b>Sample #</b>	SID13979-08
	<b>Sample Location / Orientation</b>	Center of compactor room (room 03).
	<b>Sample/Inspection Results</b>	SID13979-08 - None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7070 SID 13979

**Date: 10/21/2020**

**Photographer: Carson Vick**

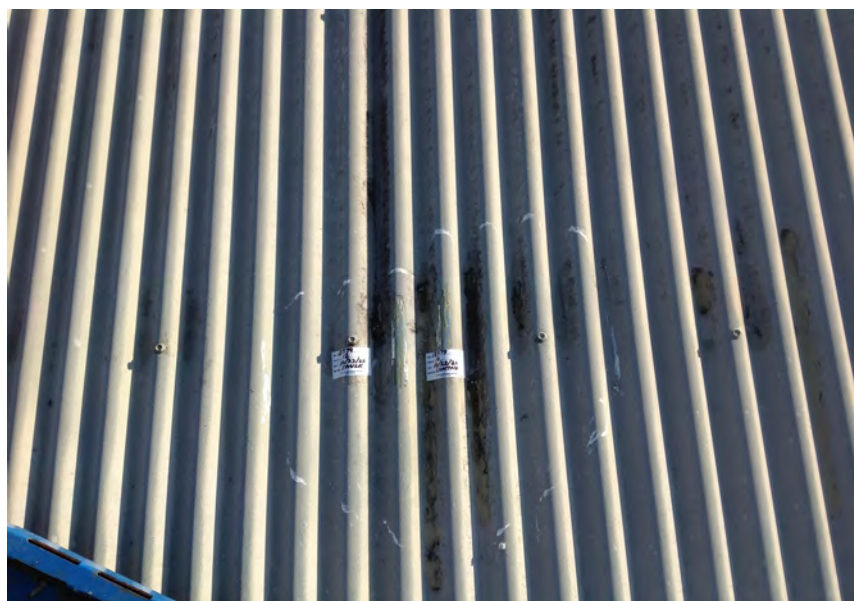


	<b>HA Description</b>	Green roof coating
	<b>Sample #</b>	SID13979-09
	<b>Sample Location / Orientation</b>	West side middle.
	<b>Sample/Inspection Results</b>	SID13979-09 - None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7070 SID 13979

**Date: 10/21/2020**

**Photographer: Carson Vick**



	<b>HA Description</b>	<b>Green roof coating</b>
	<b>Sample #</b>	<b>SID13979-10</b>
	<b>Sample Location / Orientation</b>	<b>West side around screws.</b>
	<b>Sample/Inspection Results</b>	<b>SID13979-10 - None Detected</b>
	<b>Recommendation</b>	<b>None</b>

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7070 SID 13979

**Date: 10/21/2020**

**Photographer: Carson Vick**

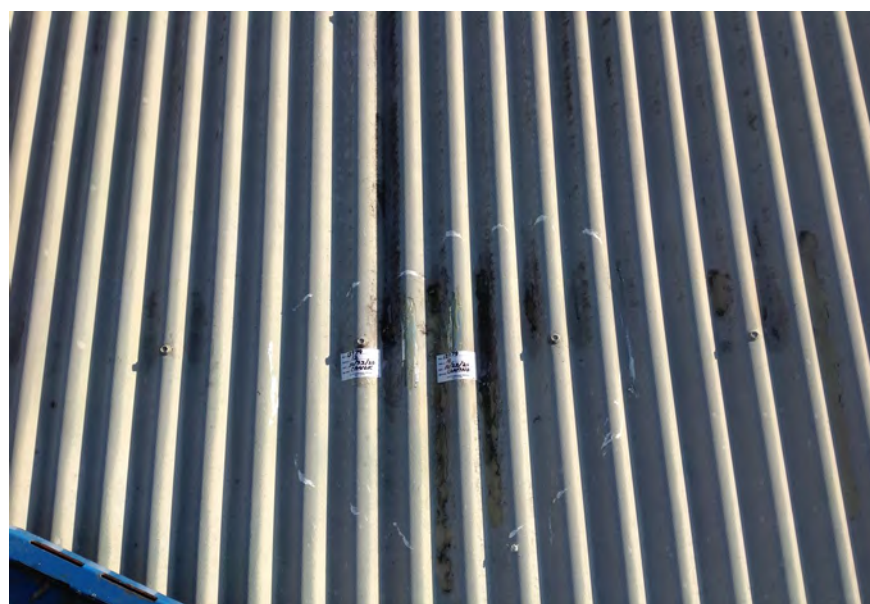


	<b>HA Description</b>	Black roof tar
	<b>Sample #</b>	SID13979-11
	<b>Sample Location / Orientation</b>	West side middle.
	<b>Sample/Inspection Results</b>	SID13979-11 - None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7070 SID 13979

**Date: 10/21/2020**

**Photographer: Carson Vick**



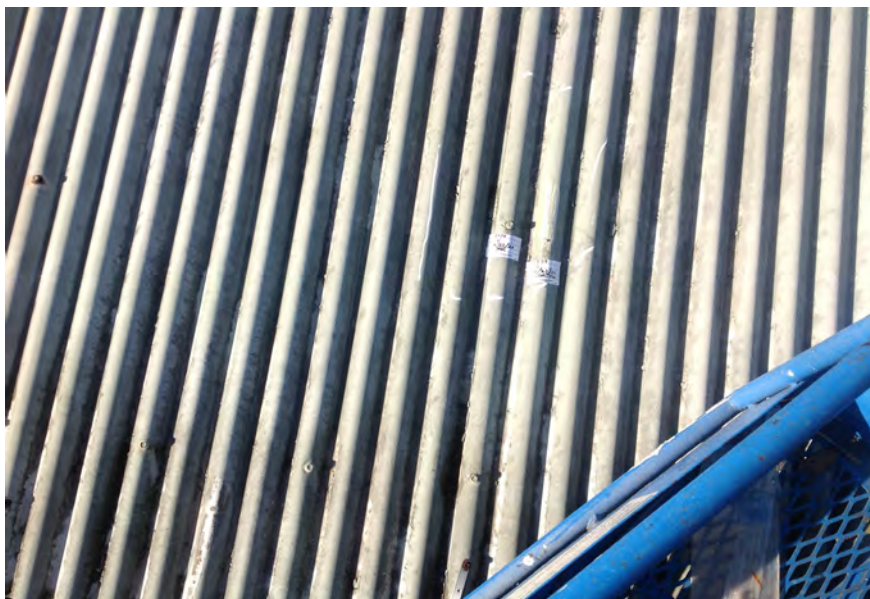
	<b>HA Description</b>	Black roof tar
	<b>Sample #</b>	SID13979-12
	<b>Sample Location / Orientation</b>	West side around screws.
	<b>Sample/Inspection Results</b>	SID13979-12 - <1 % Asbestos Chrysotile
	<b>Recommendation</b>	Use OSHA <1% asbestos rules for removal and disposal.



# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7070 SID 13979

Date: 10/21/2020

Photographer: Carson Vick

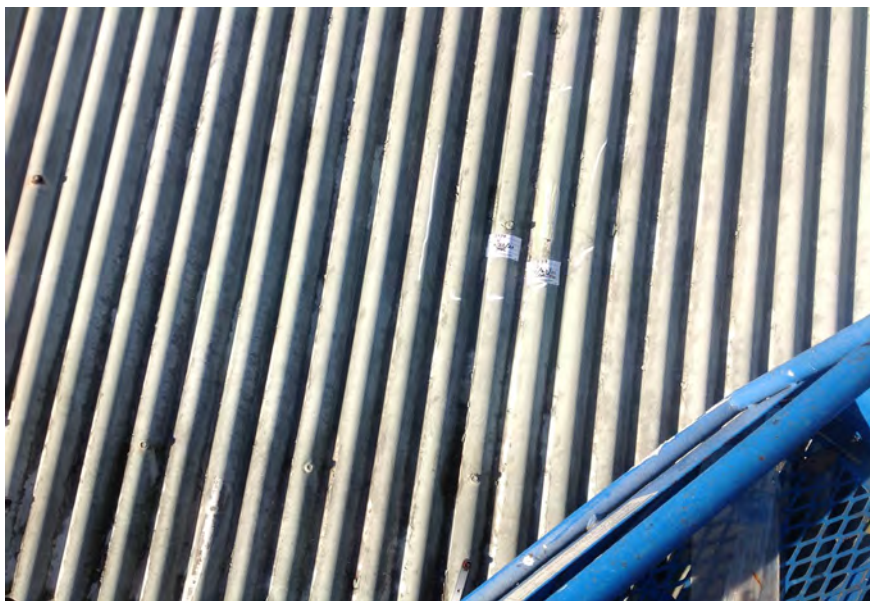


	<b>HA Description</b>	Black roof coating
	<b>Sample #</b>	SID13979-13
	<b>Sample Location / Orientation</b>	South east roof
	<b>Sample/Inspection Results</b>	SID13979-13 - None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7070 SID 13979

Date: 10/21/2020

Photographer: Carson Vick



	<b>HA Description</b>	Black roof tar
	<b>Sample #</b>	SID13979-14
	<b>Sample Location / Orientation</b>	West side around screws.
	<b>Sample/Inspection Results</b>	SID13979-14 - None Detected
	<b>Recommendation</b>	None

## Sample Survey Profile Report

### Survey Profile Report - Survey Coversheet

Survey ID: **SID13979**  
 Status: **OPEN**  
 Survey Title: **ASBESTOS BULK BLDG 7070 FOR  
CRSF DEMO 10/21/2020**  
 Survey Date: **21-OCT-2020**  
 Location: **7070**  
 IH-Safety officer: **HANCOCK,JULIA (00034540)**  
 Primary Sampler: **VICK,CARSON (03026158)**

### Request Description

#### Description of and Purpose for Sampling:

Inspection and sampling of 7070 Trailer. See attached sampling plan for additional information and listing of suspect and non-suspect materials. Contact information listed on sampling plan.  
 Sampling for Bldg 7070 for demolition in support of the CRSF demo. Results to Nilay Jhaveri, Wendell Ely and Aaron Hicks.

#### Description of Sample Equipment and Placement While Sampling:

See individual samples

Sample Rationale: **FACILITY CHARACTERIZATION**

### Analytical Method

Sampling Matrix/Device: BULK MATERIAL  
 Sampling Method: ASBESTOS/IOP 01-12.01\_BULK  
 Description of Analysis Requested (for lab personnel)

Asbestos PLM

### Survey Discussion

#### Discussion of Results, Expectations and History

Bulk sample results revealed the silver paint layer of roof flashing material located at ground level on the east facing foundation of building was 3% asbestos chrysotile and the black roof tar material located on the roof screws as <1% asbestos chrysotile. This black tar on the roof screws was all over entire roof. The roof flashing on the foundation has concrete block behind it. This is 18 feet long and ranges from 5 inches to 2 feet in height. All other sampled material results such as expansion joints, suspended ceiling tiles, roof coating and miscellaneous caulking at ground level were None Detected; therefore, no asbestos was seen during analysis of those materials. See expansion joint sample map for sample locations of roof flashing.

Inspection revealed the walls were corrugated metal and walls on portion of the building contained the asbestos roof flashing material, the roof is corrugated metal, and the floor is concrete with no asbestos in the east/west expansion joint materials. Rm 2 was an enclosed metal storage room with no suspect materials. Rm 3 had sampled materials.

#### Recommendations to Workers and Management

Remove roof flashing material from walls of structure located at base of building utilizing AWA for work and disposal. Also, the black roof tar material located on the roof screws may remain during demolition and be disposed of as construction debris since results for samples collected were <1% asbestos chrysotile; however, an AWA for the work utilizing wet methods, HEPA Vac as necessary for decon and cleaning, and an exposure assessment performed by an Asbestos Competent Person is required per OSHA regulations.

## Survey Attachments

	Description of Attachment	Filename When Uploaded
<a href="#">View/Download</a>	Sampling Request SID XXX Bldg 7070 for CRSF Demo (002).docx	Sampling Request SID XXX Bldg 7070 for CRSF Demo (002).docx
<a href="#">View/Download</a>	Bldg 7070 Sample Plan.docx	Bldg 7070 Sample Plan.docx
<a href="#">View/Download</a>	7070 Expansion Joint Locations.pdf	7070 Expansion Joint Locations.pdf
<a href="#">View/Download</a>	7070 Asbestos Inspection Form.pdf	7070 Asbestos Inspection Form.pdf
<a href="#">View/Download</a>	7070 Asbestos Characterization Sample Log.pdf	7070 Asbestos Characterization Sample Log.pdf
<a href="#">View/Download</a>	SID13979 Sample Results	HancockSID13979.pdf
<a href="#">View/Download</a>	SID13979 Characterization Photo File FINAL	SID13979 Characterization Photo File Bldg 7070 FINAL.pdf

## Tracking

Sample Date (or start) **21-OCT-2020**Sent to Lab **26-OCT-2020**

## Sample results list

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
<a href="#">SID13979-01</a>	21-OCT-2020	BULK SAMPLING	EXPANSION JOINT		7070	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13979-02</a>	21-OCT-2020	BULK SAMPLING	EXPANSION JOINT		7070	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13979-03</a>	21-OCT-2020	BULK SAMPLING	ROOF FLASHING		7070	ASBESTOS - CHRYSOTILE	3	PERC	
<a href="#">SID13979-04</a>	21-OCT-2020	BULK SAMPLING	ROOF FLASHING		7070	ASBESTOS - CHRYSOTILE	3	PERC	
<a href="#">SID13979-05</a>	21-OCT-2020	BULK SAMPLING	CAULKING NOT WINDOWS		7070	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13979-06</a>	21-OCT-2020	BULK SAMPLING	CAULKING NOT WINDOWS		7070	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13979-07</a>	21-OCT-2020	BULK SAMPLING	TILE, CELLULOSE		7070	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13979-08</a>	21-OCT-2020	BULK SAMPLING	TILE, CELLULOSE		7070	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13979-09</a>	23-OCT-2020	BULK SAMPLING	ROOF COATING		7070	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13979-10</a>	23-OCT-2020	BULK SAMPLING	ROOF COATING		7070	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13979-11</a>	23-OCT-2020	BULK SAMPLING	ROOF TAR		7070	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13979-12</a>	23-OCT-2020	BULK SAMPLING	ROOF TAR		7070	ASBESTOS - CHRYSOTILE	<1	PERC	
<a href="#">SID13979-13</a>	23-OCT-2020	BULK SAMPLING	ROOF COATING		7070	ASBESTOS - PLM	NONEDETECT	PERC	1

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
SID13979-14	23-OCT-2020	BULK SAMPLING	ROOF TAR		7070	ASBESTOS - PLM	NONEDETECT	PERC	1

## SAMPLE DETAIL

Sample ID: SID13979-01 Survey ID: SID13979

Sample ID: **SID13979-01**

Survey ID: **SID13979**

Sample Date: **21-OCT-2020**

Assessment: **BULK SAMPLING**

Result Type: **EXPANSION JOINT**

Location: **7070**

## Sample Detail

Black expansion joint - East side of building below green gate.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

## Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID13979-02 Survey ID: SID13979

Sample ID: **SID13979-02**

Survey ID: **SID13979**

Sample Date: **21-OCT-2020**

Assessment: **BULK SAMPLING**

Result Type: **EXPANSION JOINT**

Location: **7070**

## Sample Detail

Black expansion joint - West side of building below lumber storage gate.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

## Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID13979-03 Survey ID: SID13979

Sample ID: **SID13979-03**

Survey ID: **SID13979**

Sample Date: **21-OCT-2020**

Assessment: **BULK SAMPLING**

Result Type: **ROOF FLASHING**

Location: **7070**

## Sample Detail

Black tar flashing w/white paper cover - East side of building in front of lumber storage. North of sample 04.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

## Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - CHRYSOTILE				3	PERC			

**Sample Discussion**

## Sample Comments

Analysis revealed the silver paint layer as 3% asbestos chrysotile and the black tar felt layer as None Detected.

## SAMPLE DETAIL

Sample ID: SID13979-04 Survey ID: SID13979

Sample ID: **SID13979-04**

Survey ID: **SID13979**

Sample Date: **21-OCT-2020**

Assessment: **BULK SAMPLING**

Result Type: **ROOF FLASHING**

Location: **7070**

**Sample Detail**

Black tar flashing w/white paper cover - East side of building in front of lumber storage. South of sample 03.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - CHRYSOTILE				3	PERC			

**Sample Discussion**

## Sample Comments

Analysis revealed the silver paint layer as 3% asbestos chrysotile and the black tar felt layer as None Detected.

## SAMPLE DETAIL

Sample ID: SID13979-05 Survey ID: SID13979

Sample ID: **SID13979-05**

Survey ID: **SID13979**

Sample Date: **21-OCT-2020**

Assessment: **BULK SAMPLING**

Result Type: **CAULKING NOT WINDOWS**

Location: **7070**

**Sample Detail**

Gray caulk - Outside NE corner of building on east side. Between corrugated metal wall and concrete floor. North of sample 06.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDTECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID13979-06 Survey ID: SID13979

Sample ID: **SID13979-06**

Survey ID: **SID13979**

Sample Date: **21-OCT-2020**

Assessment: **BULK SAMPLING**

Result Type: **CAULKING NOT WINDOWS**

Location: **7070**

**Sample Detail**

Gray caulk - Outside east side of building. Between corrugated metal wall and concrete floor. South of sample 05.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

#### Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

#### SAMPLE DETAIL

Sample ID: SID13979-07 Survey ID: SID13979

Sample ID: **SID13979-07**

Survey ID: **SID13979**

Sample Date: **21-OCT-2020**

Assessment: **BULK SAMPLING**

Result Type: **TILE, CELLULOSE**

Location: **7070**

#### Sample Detail

Cellulose ceiling tile (2X4) - East side of compactor room (room 03).

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

#### Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

#### SAMPLE DETAIL

Sample ID: SID13979-08 Survey ID: SID13979

Sample ID: **SID13979-08**

Survey ID: **SID13979**

Sample Date: **21-OCT-2020**

Assessment: **BULK SAMPLING**

Result Type: **TILE, CELLULOSE**

Location: **7070**

#### Sample Detail

Cellulose ceiling tile (2X4) - Center of compactor room (room 03).

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

#### Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

#### SAMPLE DETAIL

Sample ID: SID13979-09 Survey ID: SID13979

Sample ID: **SID13979-09**

Survey ID: **SID13979**

Sample Date: **23-OCT-2020**

Assessment: **BULK SAMPLING**

Result Type: **ROOF COATING**

Location: **7070**

#### Sample Detail

Green roof coating - West side middle.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID13979-10 Survey ID: SID13979

Sample ID: **SID13979-10**

Survey ID: **SID13979**

Sample Date: **23-OCT-2020**

Assessment: **BULK SAMPLING**

Result Type: **ROOF COATING**

Location: **7070**

**Sample Detail**

Green roof coating - West side around screws.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID13979-11 Survey ID: SID13979

Sample ID: **SID13979-11**

Survey ID: **SID13979**

Sample Date: **23-OCT-2020**

Assessment: **BULK SAMPLING**

Result Type: **ROOF TAR**

Location: **7070**

**Sample Detail**

Black roof tar - West side middle.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID13979-12 Survey ID: SID13979

Sample ID: **SID13979-12**

Survey ID: **SID13979**

Sample Date: **23-OCT-2020**

Assessment: **BULK SAMPLING**

Result Type: **ROOF TAR**

Location: **7070**

**Sample Detail**

Black roof tar - West side around screws.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - CHRYSOTILE				<1	PERC			



## SAMPLE DETAIL

Sample ID: SID13979-13 Survey ID: SID13979

Sample ID: **SID13979-13**Survey ID: **SID13979**Sample Date: **23-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **ROOF COATING**Location: **7070****Sample Detail**

Black roof coating - South east roof

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID13979-14 Survey ID: SID13979

Sample ID: **SID13979-14**Survey ID: **SID13979**Sample Date: **23-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **ROOF TAR**Location: **7070****Sample Detail**

Black roof tar - West side around screws.

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONDETECT	PERC		1	OSHA

## Sample Survey Profile Report

### Survey Profile Report - Survey Coversheet

Survey ID: **SID14269**  
 Status: **OPEN**  
 Survey Title: **ASBESTOS BULK BLDG 7082 INSPECTION ONLY**  
 Survey Date: **29-JAN-2021**  
 Location: **7082**  
 IH-Safety officer: **HANCOCK,JULIA (00034540)**  
 Primary Sampler: **HANCOCK,JULIA (00034540)**

### Request Description

Description of and Purpose for Sampling:

Inspection of suspect asbestos materials of Bldg 7082 for the CRSF Buildings Demolition Project. Results to Wendell Ely and Aaron Hicks

Sample Rationale: **FACILITY CHARACTERIZATION**

### Survey Discussion

Discussion of Results, Expectations and History

Inspection revealed metal roof, metal walls, and concrete floors. Electrical conduit was seen but unable to sample as energized.

Recommendations to Workers and Management

Treat all braided, cloth-braided, rubber-like braided, and wiring with insulation materials inside as suspect for asbestos.

### Survey Attachments

	Description of Attachment	Filename When Uploaded
<a href="#">View/Download</a>	SID14269 Inspection Form	Bldg 7082 Salt Shed Inspection Form REV1.pdf

### Tracking

Sample Date (or start) **29-JAN-2021**

### Sample results list

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
SID14269-01	29-JAN-2021	BULK SAMPLING	INSPECTION		7082	ASBESTOS - PLM	INSPECTION	PERC	

### Notification List

Email	Contact	Role
BEELERJK@ORNL.GOV	HANCOCK,JULIA (00034540)	IH-SAFETY OFFICER

## SAMPLE DETAIL

Sample ID: SID14269-01 Survey ID: SID14269

Sample ID: **SID14269-01**Survey ID: **SID14269**Sample Date: **29-JAN-2021**Assessment: **BULK SAMPLING**Result Type: **INSPECTION**Location: **7082****Sample Detail**

Inspection only

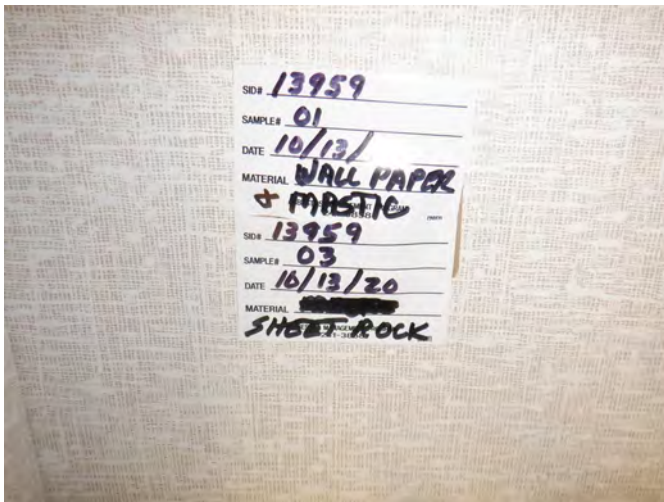
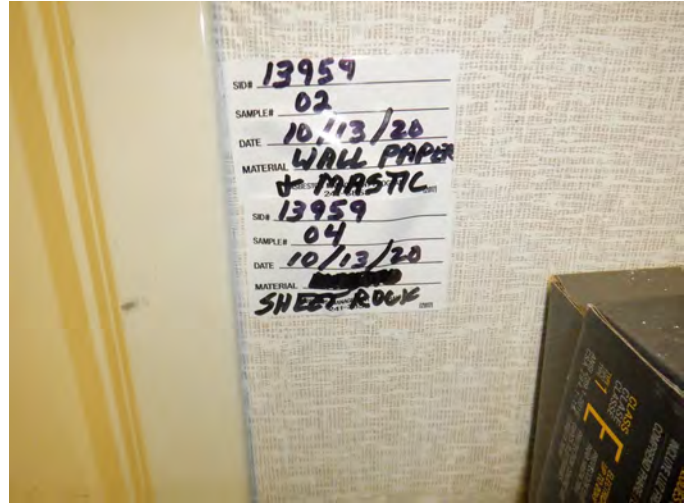
**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50134269 50183866 EXCESSED/LEASED/Y-12 FACILITIES****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				INSPECTION	PERC			

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7105 DEMOLITION PROJECT SID 13959

Date: 10/13/2020

Inspector: Jeff Morris

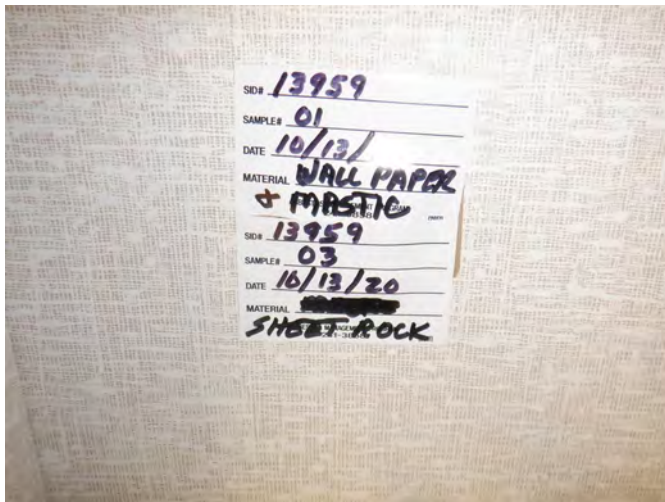
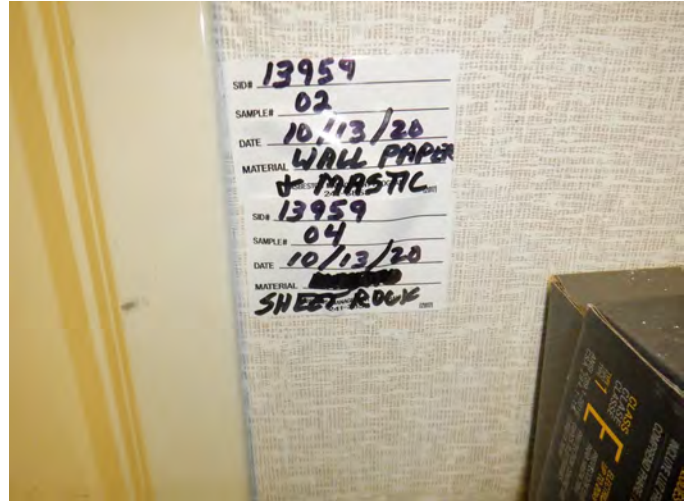


	<b>HA Description</b>	TAN AND WHITE WALLPAPER W/ ASSOCIATED MASTIC
	<b>Sample #</b>	SID13959-01 SID13959-02
	<b>Sample Location / Orientation</b>	SID13959-01– Southwest corner SID13959-02 – Northwest corner
	<b>Sample/Inspection Results</b>	SID13959-01 – None Detected SID13959-02 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7105 DEMOLITION PROJECT SID 13959

**Date: 10/13/2020**

**Inspector: Jeff Morris**

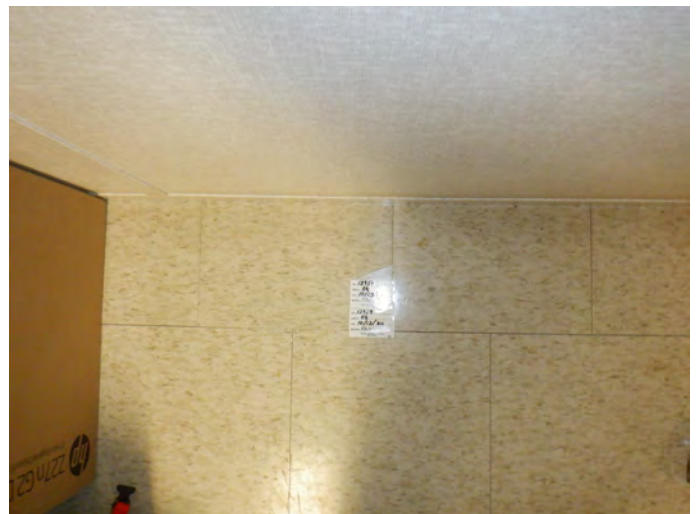
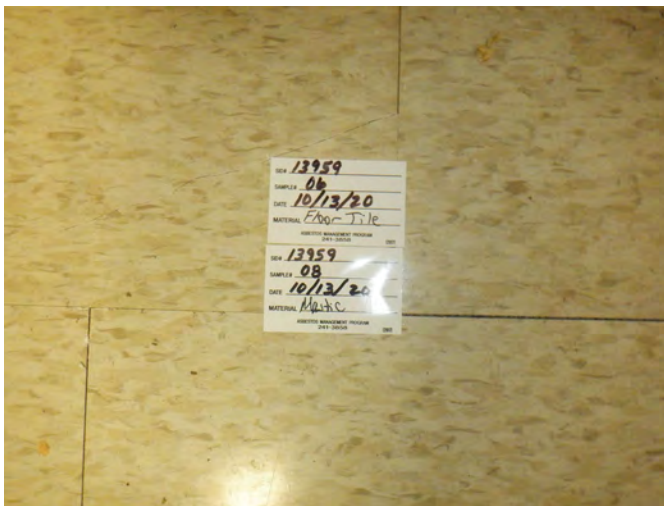


	<b>HA Description</b>	DRYWALL (SHEETROCK)
	<b>Sample #</b>	SID13959-03 SID13959-04
	<b>Sample Location / Orientation</b>	SID13959-03 – Southwest corner, behind wallpaper SID13959-04 – Northwest corner, behind wallpaper
	<b>Sample/Inspection Results</b>	SID13959-03 – None Detected SID13959-04 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7105 DEMOLITION PROJECT SID 13959

**Date: 10/13/2020**

**Inspector: Jeff Morris**

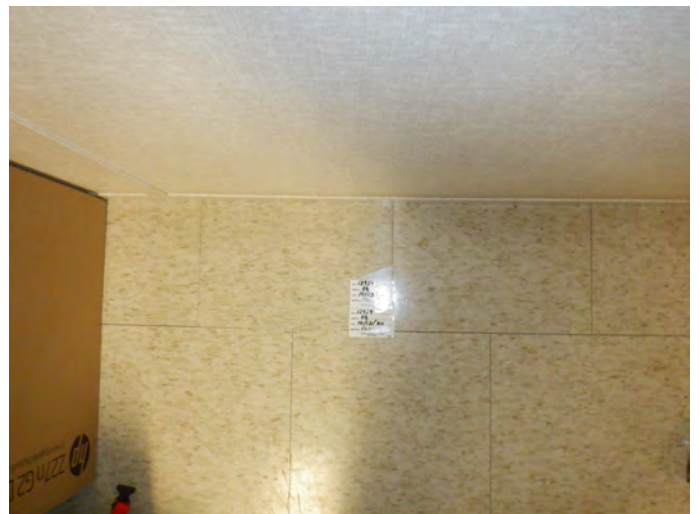
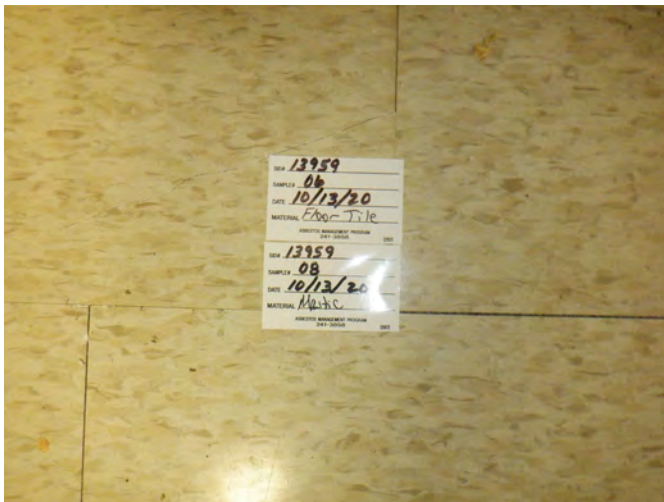
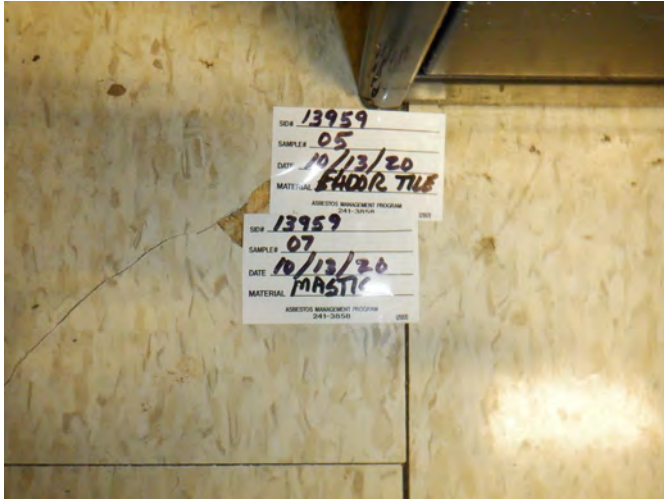


	<b>HA Description</b>	12X12 BEIGE WITH BROWN AND TAN MARBLED TILE
	<b>Sample #</b>	SID13959-05 SID13959-06
	<b>Sample Location / Orientation</b>	SID13959-05– Northwest corner SID13959-06 – North side of room
	<b>Sample/Inspection Results</b>	SID13959-05 – None Detected SID13959-06 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7105 DEMOLITION PROJECT SID 13959

**Date: 10/13/2020**

**Inspector: Jeff Morris**

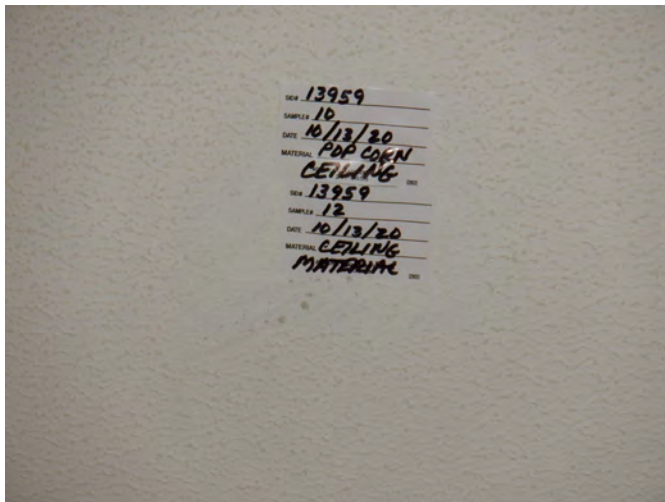
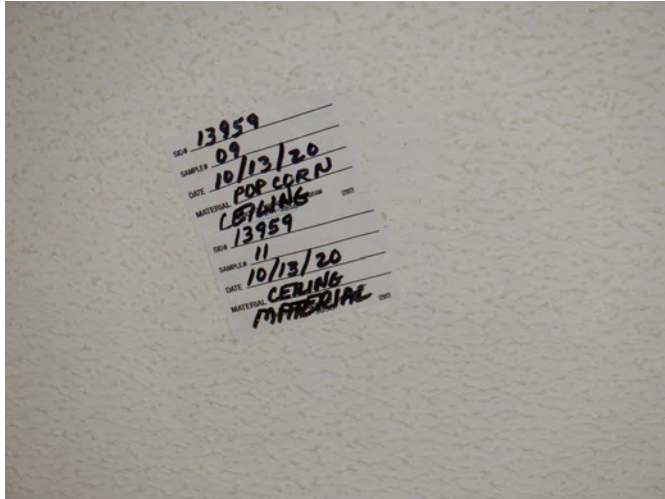


	<b>HA Description</b>	YELLOW MASTIC ASSOCIATED W/ 12X12 BEIGE WITH BROWN AND TAN MARBLED TILE
	<b>Sample #</b>	<b>SID13959-07</b> <b>SID13959-08</b>
	<b>Sample Location / Orientation</b>	SID13959-07– Northwest corner SID13959-08 – North side of room
	<b>Sample/Inspection Results</b>	SID13959-07 – None Detected SID13959-08 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7105 DEMOLITION PROJECT SID 13959

**Date: 10/13/2020**

**Inspector: Jeff Morris**



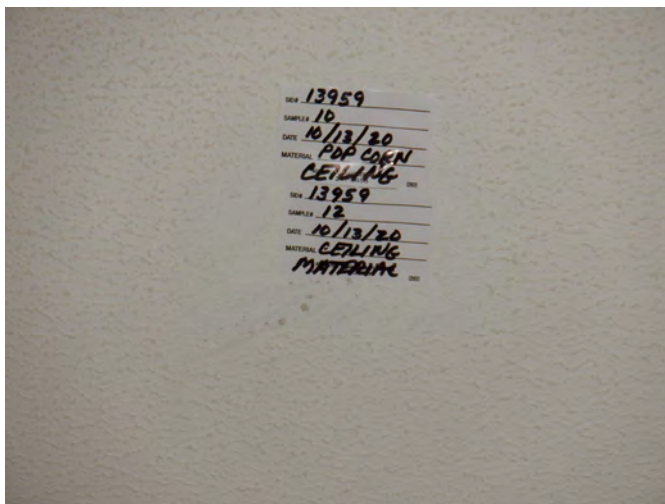
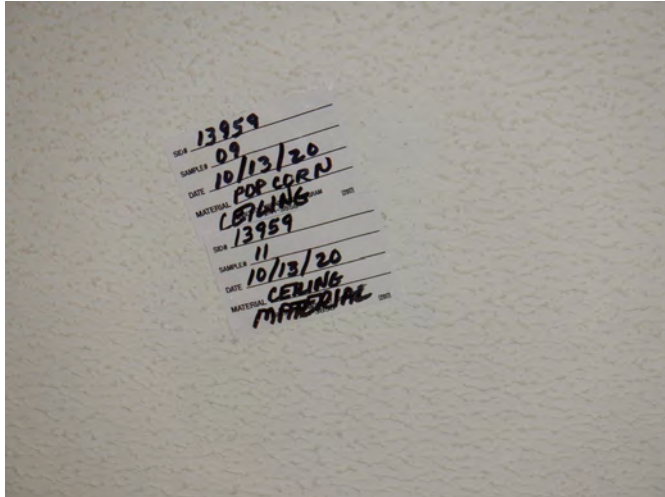
	<b>HA Description</b>	TEXTURED, POPCORN CEILING (Spray-Applied Coating) MATERIAL
	<b>Sample #</b>	SID13959-09 SID13959-10
	<b>Sample Location / Orientation</b>	SID13959-09 – North side of building SID13959-10 – Center of the building
	<b>Sample/Inspection Results</b>	SID13959-09 – None Detected SID13959-10 – None Detected
	<b>Recommendation</b>	None



# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7105 DEMOLITION PROJECT SID 13959

**Date: 10/13/2020**

**Inspector: Jeff Morris**

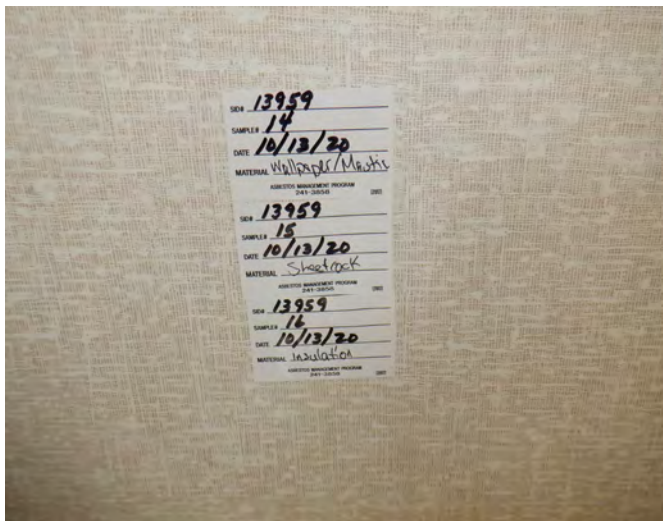
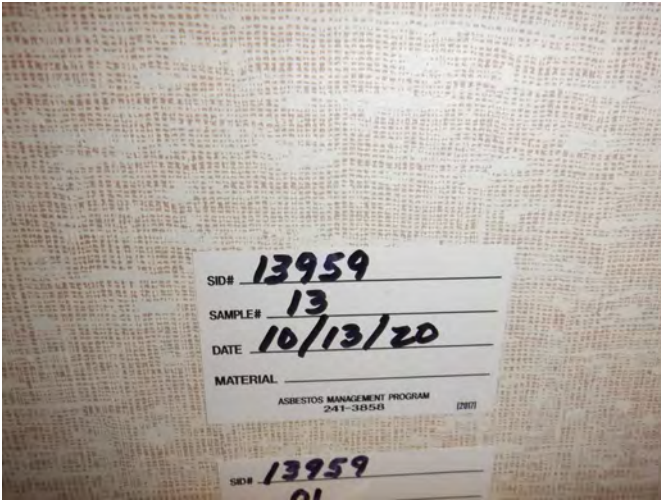


	<b>HA Description</b>	CEILING MATERIAL (Drywall)
	<b>Sample #</b>	SID13959-11 SID13959-12
	<b>Sample Location / Orientation</b>	SID13959-11 – North side of building SID13959-12 – Center of the building
	<b>Sample/Inspection Results</b>	SID13959-11 – None Detected SID13959-12 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7105 DEMOLITION PROJECT SID 13959

Date: 10/13/2020

Inspector: Jeff Morris

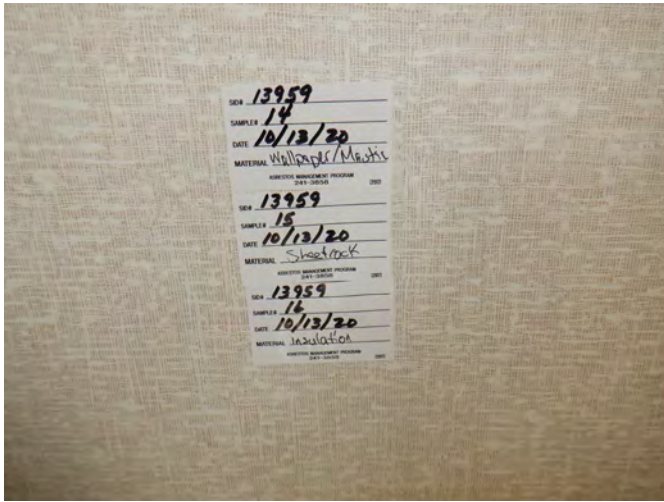


	<b>HA Description</b>	WHITE FIBERGLASS INSULATION
	<b>Sample #</b>	SID13959-13 SID13959-16
	<b>Sample Location / Orientation</b>	SID13959-13 – Southwest corner SID13959-16 – Southwest wall
	<b>Sample/Inspection Results</b>	SID13959-13 –None Detected SID13959-16 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7105 DEMOLITION PROJECT SID 13959

**Date: 10/13/2020**

**Inspector: Jeff Morris**

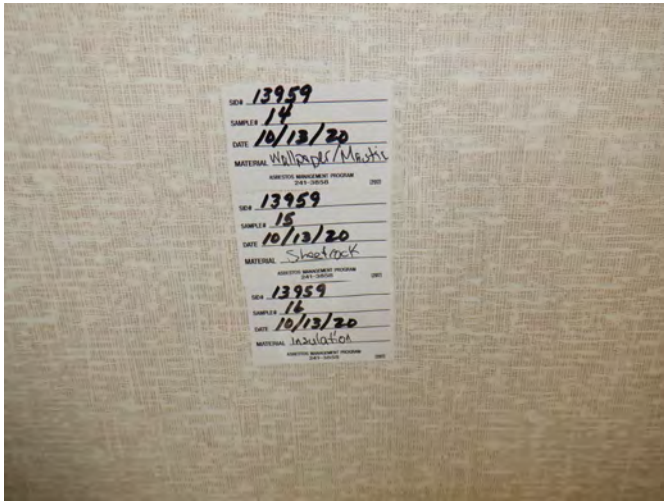


	<b>HA Description</b>	WALLPAPER AND ASSOCIATED MASTIC
	<b>Sample #</b>	SID13959-14
	<b>Sample Location / Orientation</b>	SID13959-14 – Southwest corner
	<b>Sample/Inspection Results</b>	SID13959-14 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7105 DEMOLITION PROJECT SID 13959

**Date: 10/13/2020**

**Inspector: Jeff Morris**



	<b>HA Description</b>	DRYWALL (SHEETROCK)
	<b>Sample #</b>	SID13959-15
	<b>Sample Location / Orientation</b>	SID13959-15 – Southwest corner
	<b>Sample/Inspection Results</b>	SID13959-15 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7105 DEMOLITION PROJECT SID 13959

**Date: 10/13/2020**

**Inspector: Jeff Morris**



	<b>HA Description</b>	BLACK WINDOW GLAZING
	<b>Sample #</b>	SID13959-17 SID13959-18
	<b>Sample Location / Orientation</b>	SID13959-17 – Northwest door (exterior) SID13959-18 – Southwest door (exterior)
	<b>Sample/Inspection Results</b>	SID13959-17 – None Detected SID13959-18 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7105 DEMOLITION PROJECT SID 13959

**Date: 10/13/2020**

**Inspector: Jeff Morris**



	<b>HA Description</b>	CLEAR WINDOW CAULK
	<b>Sample #</b>	SID13959-19 SID13959-20
	<b>Sample Location / Orientation</b>	SID13959-19 – Northwest door SID13959-20 – Southwest door
	<b>Sample/Inspection Results</b>	SID13959-19 – None Detected SID13959-20 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7105 DEMOLITION PROJECT SID 13959

**Date: 10/13/2020**

**Inspector: Jeff Morris**



	<b>HA Description</b>	WHITE CAULK PAINTED CREAM
	<b>Sample #</b>	SID13959-21 SID13959-22
	<b>Sample Location / Orientation</b>	SID13959-21 – Northwest door SID13959-22 – Southwest door
	<b>Sample/Inspection Results</b>	SID13959-21 – None Detected SID13959-22 – None Detected
	<b>Recommendation</b>	None

# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7105 DEMOLITION PROJECT SID 13959

**Date: 10/13/2020**

**Inspector: Jeff Morris**



	<b>HA Description</b>	CLEAR CAULK
	<b>Sample #</b>	<b>SID13959-23</b> <b>SID13959-24</b>
	<b>Sample Location / Orientation</b>	SID13959-23 – Northwest outside light SID13959-24 – Southwest outside light
	<b>Sample/Inspection Results</b>	SID13959-23 – None Detected SID13959-24 – None Detected
	<b>Recommendation</b>	None



# CHARACTERIZATION PHOTO REPORT FOR BUILDING 7105 DEMOLITION PROJECT SID 13959

**Date: 10/13/2020**

**Inspector: Jeff Morris**



	<b>HA Description</b>	CLEAR WINDOW CAULK
	<b>Sample #</b>	SID13959-25 SID13959-26
	<b>Sample Location / Orientation</b>	SID13959-25 – Northeast Window (exterior) SID13959-26 – Southeast Window (exterior)
	<b>Sample/Inspection Results</b>	SID13959-25 – None Detected SID13959-26 – None Detected
	<b>Recommendation</b>	None

## Sample Survey Profile Report

### Survey Profile Report - Survey Coversheet

Survey ID: **SID13959**  
 Status: **OPEN**  
 Survey Title: **ASBESTOS BULK\_7105\_FOR CRSF  
 DEMO\_10/13/2020**  
 Survey Date: **13-OCT-2020**  
 Location: **7105**  
 IH-Safety officer: **HANCOCK,JULIA (00034540)**  
 Primary Sampler: **MORRIS,JEFFERY (00035404)**

### Request Description

Description of and Purpose for Sampling:

Sampling for Bldg 7105 for demolition in support of the CRSF Demo Project. Results to Nilay Jhaveri, Wendell Ely and Aaron Hicks.

Sample Rationale: **FACILITY CHARACTERIZATION**

### Analytical Method

Sampling Matrix/Device: BULK MATERIAL

Sampling Method: ASBESTOS/IOP 01-12.01\_BULK

Description of Analysis Requested (for lab personnel)

Asbestos Bulk

### Survey Discussion

Discussion of Results, Expectations and History

Bulk sample results for the window glazing, window caulking, miscellaneous caulking, drywall (no joint compound present), insulation materials were all None Detected; therefore, no asbestos was seen during analysis. Roof materials are on SID13962 for which sample results were None Detected. See SID14203 for one additional sample of white fiberglass batt insulation which results were None Detected.

Inspection revealed the walls were drywall with paper wall covering and no joint compound, roof was rubber with adhesive, floor was vinyl floor tile with mastic, ceiling was made of drywall with popcorn textured spray-applied coating material on top of drywall and no joint compound was seen.

Note: Room numbers -02 and -03 are not in FIC but were present and labeled upon inspection as room numbers.

Recommendations to Workers and Management

None, no asbestos present.

### Survey Attachments

	Description of Attachment	Filename When Uploaded
<a href="#">View/Download</a>	Sampling Request SID13959 Bldg 7105 Trailer for CRSF Demo.docx	Sampling Request SID13959 Bldg 7105 Trailer for CRSF Demo.docx
<a href="#">View/Download</a>	Asbestos char form.pdf	Asbestos char form.pdf

<a href="#">View/Download</a>	SID13959 Sample Results	HancockSID13959.pdf
<a href="#">View/Download</a>	Inspection form.pdf	Inspection form.pdf
<a href="#">View/Download</a>	SID13959 Characterization Photo File - FINAL	SID13959 Characterization Photo File_Bldg 7105 - FINAL.pdf

## Tracking

Sample Date (or start) **13-OCT-2020**Sent to Lab **13-OCT-2020**

## Sample results list

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
<a href="#">SID13959-01</a>	13-OCT-2020	BULK SAMPLING	PAPER, WALL COVERING		7105 FIRST 01	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13959-02</a>	13-OCT-2020	BULK SAMPLING	PAPER, WALL COVERING		7105 FIRST 01	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13959-03</a>	13-OCT-2020	BULK SAMPLING	DRYWALL		7105 FIRST 01	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13959-04</a>	13-OCT-2020	BULK SAMPLING	DRYWALL		7105 FIRST 01	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13959-05</a>	13-OCT-2020	BULK SAMPLING	FLOOR TILE		7105 FIRST 01	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13959-06</a>	13-OCT-2020	BULK SAMPLING	FLOOR TILE		7105 FIRST	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13959-07</a>	13-OCT-2020	BULK SAMPLING	MASTIC, FLOOR TILE		7105 FIRST 01	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13959-08</a>	13-OCT-2020	BULK SAMPLING	MASTIC, FLOOR TILE		7105 FIRST	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13959-09</a>	13-OCT-2020	BULK SAMPLING	COATING,SPRAYAPPLIED		7105 FIRST 01	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13959-10</a>	13-OCT-2020	BULK SAMPLING	COATING,SPRAYAPPLIED		7105 FIRST	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13959-11</a>	13-OCT-2020	BULK SAMPLING	DRYWALL		7105 FIRST 01	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13959-12</a>	13-OCT-2020	BULK SAMPLING	DRYWALL		7105 FIRST	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13959-13</a>	13-OCT-2020	BULK SAMPLING	INSULATION, BATTING		7105 FIRST	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13959-14</a>	13-OCT-2020	BULK SAMPLING	PAPER, WALL COVERING		7105 FIRST	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13959-15</a>	13-OCT-2020	BULK SAMPLING	DRYWALL		7105 FIRST	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13959-16</a>	13-OCT-2020	BULK SAMPLING	INSULATION, BATTING		7105 FIRST	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13959-17</a>	13-OCT-2020	BULK SAMPLING	WINDOW GLAZING		7105 FIRST 01	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13959-18</a>	13-OCT-2020	BULK SAMPLING	WINDOW GLAZING		7105 FIRST	ASBESTOS - PLM	NONEDETECT	PERC	1
<a href="#">SID13959-19</a>	13-OCT-2020	BULK SAMPLING	WINDOW CAULKING		7105 FIRST 01	ASBESTOS - PLM	NONEDETECT	PERC	1

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
SID13959-20	13-OCT-2020	BULK SAMPLING	WINDOW CAULKING		7105 FIRST	ASBESTOS - PLM	NONEDETECT	PERC	1
SID13959-21	13-OCT-2020	BULK SAMPLING	CAULKING NOT WINDOWS		7105 FIRST 01	ASBESTOS - PLM	NONEDETECT	PERC	1
SID13959-22	13-OCT-2020	BULK SAMPLING	CAULKING NOT WINDOWS		7105 FIRST	ASBESTOS - PLM	NONEDETECT	PERC	1
SID13959-23	13-OCT-2020	BULK SAMPLING	CAULKING NOT WINDOWS		7105 FIRST 01	ASBESTOS - PLM	NONEDETECT	PERC	1
SID13959-24	13-OCT-2020	BULK SAMPLING	CAULKING NOT WINDOWS		7105 FIRST	ASBESTOS - PLM	NONEDETECT	PERC	1
SID13959-25	13-OCT-2020	BULK SAMPLING	WINDOW CAULKING		7105 FIRST 01	ASBESTOS - PLM	NONEDETECT	PERC	1
SID13959-26	13-OCT-2020	BULK SAMPLING	WINDOW CAULKING		7105 FIRST	ASBESTOS - PLM	NONEDETECT	PERC	1

SAMPLE DETAIL

Sample ID: SID13959-01 Survey ID: SID13959

Sample ID: **SID13959-01**  
 Survey ID: **SID13959**  
 Sample Date: **13-OCT-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **PAPER, WALL COVERING**  
 Location: **7105 FIRST 01**

Sample Detail

Room 1 - Southwest corner - tan and white wall paper covering and mastic

Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**  
 Org ID: **50000101 50133428 50133430 50000514 50345345 50428833 PROPERTY/REUSE/EXCESS/SALES**

Other

Operation Status: **ACTIVE**  
 Area Category: **OFFICE AREA**  
 Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

SAMPLE DETAIL

Sample ID: SID13959-02 Survey ID: SID13959

Sample ID: **SID13959-02**  
 Survey ID: **SID13959**  
 Sample Date: **13-OCT-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **PAPER, WALL COVERING**  
 Location: **7105 FIRST 01**

Sample Detail

Room 1 - Northwest corner - tan and white Wall paper covering and mastic

Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**

Org ID: **50000101 50133428 50133430 50000514 50345345 50428833 PROPERTY/REUSE/EXCESS/SALES****Other**Operation Status: **ACTIVE**Area Category: **OFFICE AREA**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: **SID13959-03** Survey ID: **SID13959**Sample ID: **SID13959-03**Survey ID: **SID13959**Sample Date: **13-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **DRYWALL**Location: **7105 FIRST 01****Sample Detail**

Room 1 - Southwest corner - Drywall behind wall paper covering

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50000514 50345345 50428833 PROPERTY/REUSE/EXCESS/SALES****Other**Operation Status: **ACTIVE**Area Category: **OFFICE AREA**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: **SID13959-04** Survey ID: **SID13959**Sample ID: **SID13959-04**Survey ID: **SID13959**Sample Date: **13-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **DRYWALL**Location: **7105 FIRST 01****Sample Detail**

Room 1 - Northwest corner - Drywall behind wall paper covering

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50000514 50345345 50428833 PROPERTY/REUSE/EXCESS/SALES****Other**Operation Status: **ACTIVE**Area Category: **OFFICE AREA**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID13959-05 Survey ID: SID13959

Sample ID: **SID13959-05**  
 Survey ID: **SID13959**  
 Sample Date: **13-OCT-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **FLOOR TILE**  
 Location: **7105 FIRST 01**

## Sample Detail

Room 1 -Northwest corner - 12 x 12 beige with brown and tan marbled tile

## Sort Groups

Org Category: **\_ FACILITY CHARACTERIZATION-PURPOSIVE**  
 Org ID: **50000101 50133428 50133430 50000514 50345345 50428833 PROPERTY/REUSE/EXCESS/SALES**

## Other

Operation Status: **ACTIVE**  
 Area Category: **OFFICE AREA**  
 Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

## Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID13959-06 Survey ID: SID13959

Sample ID: **SID13959-06**  
 Survey ID: **SID13959**  
 Sample Date: **13-OCT-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **FLOOR TILE**  
 Location: **7105 FIRST**

## Sample Detail

Room 2 - North wall area - 12 x 12 beige with brown and tan marbled tile

## Sort Groups

Org Category: **\_ FACILITY CHARACTERIZATION-PURPOSIVE**  
 Org ID: **50000101 50133428 50133430 50000514 50345345 50428833 PROPERTY/REUSE/EXCESS/SALES**

## Other

Operation Status: **ACTIVE**  
 Area Category: **OFFICE AREA**  
 Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

## Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID13959-07 Survey ID: SID13959

Sample ID: **SID13959-07**  
 Survey ID: **SID13959**  
 Sample Date: **13-OCT-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **MASTIC, FLOOR TILE**  
 Location: **7105 FIRST 01**

**Sample Detail**

Room 1 - Yellow mastic under sample # 5; northwest corner

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50000514 50345345 50428833 PROPERTY/REUSE/EXCESS/SALES****Other**Operation Status: **ACTIVE**Area Category: **OFFICE AREA**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: **SID13959-08** Survey ID: **SID13959**Sample ID: **SID13959-08**Survey ID: **SID13959**Sample Date: **13-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **MASTIC, FLOOR TILE**Location: **7105 FIRST****Sample Detail**

Room 2 -Yellow mastic under sample # 6; north side of room

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50000514 50345345 50428833 PROPERTY/REUSE/EXCESS/SALES****Other**Operation Status: **ACTIVE**Area Category: **OFFICE AREA**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: **SID13959-09** Survey ID: **SID13959**Sample ID: **SID13959-09**Survey ID: **SID13959**Sample Date: **13-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **COATING,SPRAYAPPLIED**Location: **7105 FIRST 01****Sample Detail**

Room 1 - north area of room - Popcorn Textured spray applied material on ceiling

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50000514 50345345 50428833 PROPERTY/REUSE/EXCESS/SALES****Other**Operation Status: **ACTIVE**

Area Category: **OFFICE AREA**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID13959-10 Survey ID: SID13959

Sample ID: **SID13959-10**Survey ID: **SID13959**Sample Date: **13-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **COATING,SPRAYAPPLIED**Location: **7105 FIRST****Sample Detail**

Room 2 - Center area of room - Popcorn Textured spray applied material on ceiling

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50000514 50345345 50428833 PROPERTY/REUSE/EXCESS/SALES****Other**Operation Status: **ACTIVE**Area Category: **OFFICE AREA**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID13959-11 Survey ID: SID13959

Sample ID: **SID13959-11**Survey ID: **SID13959**Sample Date: **13-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **DRYWALL**Location: **7105 FIRST 01****Sample Detail**

Room 1 - Ceiling Drywall North side of room

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50000514 50345345 50428833 PROPERTY/REUSE/EXCESS/SALES****Other**Operation Status: **ACTIVE**Area Category: **OFFICE AREA**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID13959-12 Survey ID: SID13959



Sample ID: **SID13959-12**  
 Survey ID: **SID13959**  
 Sample Date: **13-OCT-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **DRYWALL**  
 Location: **7105 FIRST**

**Sample Detail**

Room 2 - Ceiling drywall - Center of room 2

**Sort Groups**

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**  
 Org ID: **50000101 50133428 50133430 50000514 50345345 50428833 PROPERTY/REUSE/EXCESS/SALES**

**Other**

Operation Status: **ACTIVE**  
 Area Category: **OFFICE AREA**  
 Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: **SID13959-13** Survey ID: **SID13959**

Sample ID: **SID13959-13**  
 Survey ID: **SID13959**  
 Sample Date: **13-OCT-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **INSULATION, BATTING**  
 Location: **7105 FIRST**

**Sample Detail**

Room 2 - White fiberglass insulation in wall southwest corner of room

**Sort Groups**

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**  
 Org ID: **50000101 50133428 50133430 50000514 50345345 50428833 PROPERTY/REUSE/EXCESS/SALES**

**Other**

Operation Status: **ACTIVE**  
 Area Category: **OFFICE AREA**  
 Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: **SID13959-14** Survey ID: **SID13959**

Sample ID: **SID13959-14**  
 Survey ID: **SID13959**  
 Sample Date: **13-OCT-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **PAPER, WALL COVERING**  
 Location: **7105 FIRST**

**Sample Detail**

Room 3 - Southwest wall - wall paper covering and mastic

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50000514 50345345 50428833 PROPERTY/REUSE/EXCESS/SALES****Other**Operation Status: **ACTIVE**Area Category: **OFFICE AREA**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: **SID13959-15** Survey ID: **SID13959**Sample ID: **SID13959-15**Survey ID: **SID13959**Sample Date: **13-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **DRYWALL**Location: **7105 FIRST****Sample Detail**

Room 3 - Drywall on Southwest wall

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50000514 50345345 50428833 PROPERTY/REUSE/EXCESS/SALES****Other**Operation Status: **ACTIVE**Area Category: **OFFICE AREA**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: **SID13959-16** Survey ID: **SID13959**Sample ID: **SID13959-16**Survey ID: **SID13959**Sample Date: **13-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **INSULATION, BATTING**Location: **7105 FIRST****Sample Detail**

Room 3 - Southwest wall - white fiberglass insulation in the wall

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50000514 50345345 50428833 PROPERTY/REUSE/EXCESS/SALES****Other**Operation Status: **ACTIVE**Area Category: **OFFICE AREA**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID13959-17 Survey ID: SID13959

Sample ID: **SID13959-17**

Survey ID: **SID13959**

Sample Date: **13-OCT-2020**

Assessment: **BULK SAMPLING**

Result Type: **WINDOW GLAZING**

Location: **7105 FIRST 01**

#### Sample Detail

Room 1 - Northwest door (exterior) - black window glazing

#### Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**

Org ID: **50000101 50133428 50133430 50000514 50345345 50428833 PROPERTY/REUSE/EXCESS/SALES**

#### Other

Operation Status: **ACTIVE**

Area Category: **OFFICE AREA**

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

#### Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID13959-18 Survey ID: SID13959

Sample ID: **SID13959-18**

Survey ID: **SID13959**

Sample Date: **13-OCT-2020**

Assessment: **BULK SAMPLING**

Result Type: **WINDOW GLAZING**

Location: **7105 FIRST**

#### Sample Detail

Room 3 - Southwest door (exterior) - black window glazing

#### Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**

Org ID: **50000101 50133428 50133430 50000514 50345345 50428833 PROPERTY/REUSE/EXCESS/SALES**

#### Other

Operation Status: **ACTIVE**

Area Category: **OFFICE AREA**

Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL**

#### Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID13959-19 Survey ID: SID13959

Sample ID: **SID13959-19**

Survey ID: **SID13959**

Sample Date: **13-OCT-2020**

Assessment: **BULK SAMPLING**

Result Type: **WINDOW CAULKING**Location: **7105 FIRST 01****Sample Detail**

Room 1 northwest door (exterior) - Clear window caulking

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50000514 50345345 50428833 PROPERTY/REUSE/EXCESS/SALES****Other**Operation Status: **ACTIVE**Area Category: **OFFICE AREA**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: **SID13959-20** Survey ID: **SID13959**Sample ID: **SID13959-20**Survey ID: **SID13959**Sample Date: **13-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **WINDOW CAULKING**Location: **7105 FIRST****Sample Detail**

Room 3 - Southwest door (exterior) - clear window caulking

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50000514 50345345 50428833 PROPERTY/REUSE/EXCESS/SALES****Other**Operation Status: **ACTIVE**Area Category: **OFFICE AREA**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: **SID13959-21** Survey ID: **SID13959**Sample ID: **SID13959-21**Survey ID: **SID13959**Sample Date: **13-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **CAULKING NOT WINDOWS**Location: **7105 FIRST 01****Sample Detail**

Room 1 - Northwest door frame. Door caulk - white (painted cream)

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50000514 50345345 50428833 PROPERTY/REUSE/EXCESS/SALES**

**Other**

Operation Status: **ACTIVE**  
 Area Category: **OFFICE AREA**  
 Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID13959-22 Survey ID: SID13959

Sample ID: **SID13959-22**  
 Survey ID: **SID13959**  
 Sample Date: **13-OCT-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **CAULKING NOT WINDOWS**  
 Location: **7105 FIRST**

**Sample Detail**

Room 3 - Southwest door frame. Caulk around frame of door. White (painted cream)

**Sort Groups**

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**  
 Org ID: **50000101 50133428 50133430 50000514 50345345 50428833 PROPERTY/REUSE/EXCESS/SALES**

**Other**

Operation Status: **ACTIVE**  
 Area Category: **OFFICE AREA**  
 Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID13959-23 Survey ID: SID13959

Sample ID: **SID13959-23**  
 Survey ID: **SID13959**  
 Sample Date: **13-OCT-2020**  
 Assessment: **BULK SAMPLING**  
 Result Type: **CAULKING NOT WINDOWS**  
 Location: **7105 FIRST 01**

**Sample Detail**

Room 1 - Northwest outside light- Clear caulk

**Sort Groups**

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**  
 Org ID: **50000101 50133428 50133430 50000514 50345345 50428833 PROPERTY/REUSE/EXCESS/SALES**

**Other**

Operation Status: **ACTIVE**  
 Area Category: **OFFICE AREA**  
 Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**  
 Sample Matrix/Device: **BULK MATERIAL**

**Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID13959-24 Survey ID: SID13959

Sample ID: **SID13959-24**Survey ID: **SID13959**Sample Date: **13-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **CAULKING NOT WINDOWS**Location: **7105 FIRST**

## Sample Detail

Room 3 - Southwest outside light- clear caulk

## Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50000514 50345345 50428833 PROPERTY/REUSE/EXCESS/SALES**

## Other

Operation Status: **ACTIVE**Area Category: **OFFICE AREA**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL**

## Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID13959-25 Survey ID: SID13959

Sample ID: **SID13959-25**Survey ID: **SID13959**Sample Date: **13-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **WINDOW CAULKING**Location: **7105 FIRST 01**

## Sample Detail

Room 1 - Northeast window (exterior) - clear window caulking

## Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50000514 50345345 50428833 PROPERTY/REUSE/EXCESS/SALES**

## Other

Operation Status: **ACTIVE**Area Category: **OFFICE AREA**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL**

## Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID13959-26 Survey ID: SID13959

Sample ID: **SID13959-26**Survey ID: **SID13959**Sample Date: **13-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **WINDOW CAULKING**Location: **7105 FIRST**

## Sample Detail

Room 3 - Southeast window (exterior) - clear window caulking

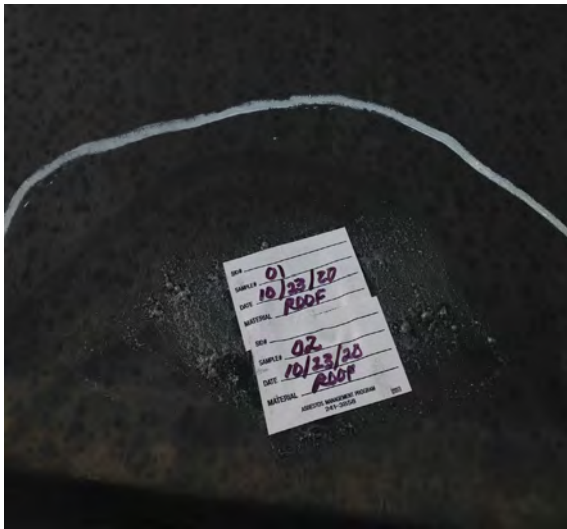
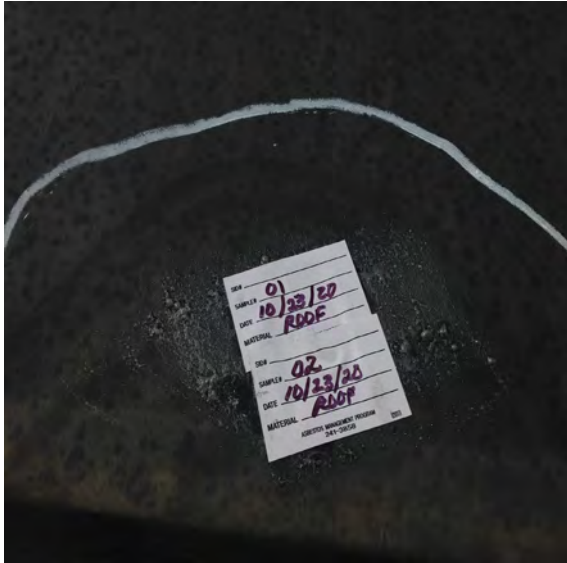
**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50000514 50345345 50428833 PROPERTY/REUSE/EXCESS/SALES****Other**Operation Status: **ACTIVE**Area Category: **OFFICE AREA**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

# SID13962 CHARACTERIZATION PHOTO Bldg 7105

Date: 10/23/2020

Photographer: Jeff Morris



<b>HA Description</b>	Rubber roof and adhesive
<b>Sample #</b>	SID13962-01 SID13962-02
<b>Sample Location / Orientation</b>	SID13962-01 – Roof - Southeast end of roof. - Rubber roof SID13962-02 – Roof - Southeast end of roof. - Adhesive under the Rubber roof
<b>Sample/Inspection Results</b>	SID13962-01 - None Detected SID13962-02 - None Detected
<b>Recommendation</b>	None



# SID13962 CHARACTERIZATION PHOTO Bldg 7105

Date: 10/23/2020

Photographer: Jeff Morris



<b>HA Description</b>	Rubber roof and adhesive
<b>Sample #</b>	<b>SID13962-03</b> <b>SID13962-04</b>
<b>Sample Location / Orientation</b>	SID13962-03 – Roof - South end of roof. - Rubber roof SID13962-04 – Roof - South end of roof. - Adhesive under the Rubber roof
<b>Sample/Inspection Results</b>	SID13962-03 - None Detected SID13962-04 - None Detected
<b>Recommendation</b>	None

## Sample Survey Profile Report

### Survey Profile Report - Survey Coversheet

Survey ID: **SID13962**  
 Status: **OPEN**  
 Survey Title: **ASBESTOS  
BULK\_ROOF\_7105\_10/23/2020**  
 Survey Date: **23-OCT-2020**  
 Location: **7105**  
 IH-Safety officer: **HANCOCK,JULIA (00034540)**  
 Primary Sampler: **MORRIS,JEFFERY (00035404)**

### Request Description

#### Description of and Purpose for Sampling:

Sampling for roof characterization of the 7105 trailer for the CRSF Demolition project for Excess Facilities. Send results to Wendell Ely, Aaron Hicks and Nilay Jhaveri.

Sample Rationale: **FACILITY CHARACTERIZATION**

### Analytical Method

Sampling Matrix/Device: BULK MATERIAL

Sampling Method: ASBESTOS/IOP 01-12.01\_BULK

#### Description of Analysis Requested (for lab personnel)

Asbestos PLM

### Survey Discussion

#### Discussion of Results, Expectations and History

Bulk sample results for the roof materials consisting of rubber membrane and adhesive were all None Detected; therefore, no asbestos was seen during analysis.

Inspection revealed a rubber roof membrane. See SID13959 and SID14203 for interior sample results.

#### Recommendations to Workers and Management

None, no asbestos present on the roof.

### Survey Attachments

	Description of Attachment	Filename When Uploaded
<a href="#">View/Download</a>	Sampling Request SID XXX Bldg 7105 Trailer for CRSF Demo.pdf	Sampling Request SID XXX Bldg 7105 Trailer for CRSF Demo.pdf
<a href="#">View/Download</a>	Inspection form - 7105.pdf	Inspection form - 7105.pdf
<a href="#">View/Download</a>	SID13962 Sample Results	HancockSID13962.pdf
<a href="#">View/Download</a>	SID13962 Characterization Photo File FINAL	SID13962 Characterization Photo File Bldg 7105 -

## Tracking

Sample Date (or start) **23-OCT-2020**

## Sample results list

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
SID13962-01	23-OCT-2020	BULK SAMPLING	ROOF MATERIAL		7105	ASBESTOS - PLM	NONEDETECT	PERC	1
SID13962-02	23-OCT-2020	BULK SAMPLING	ROOF MATERIAL		7105	ASBESTOS - PLM	NONEDETECT	PERC	1
SID13962-03	23-OCT-2020	BULK SAMPLING	ROOF MATERIAL		7105	ASBESTOS - PLM	NONEDETECT	PERC	1
SID13962-04	23-OCT-2020	BULK SAMPLING	ROOF MATERIAL		7105	ASBESTOS - PLM	NONEDETECT	PERC	1

## SAMPLE DETAIL

Sample ID: SID13962-01 Survey ID: SID13962

Sample ID: **SID13962-01**Survey ID: **SID13962**Sample Date: **23-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **ROOF MATERIAL**Location: **7105**

## Sample Detail

Roof - Southeast end of roof. - Rubber roof

## Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50134269 FACILITIES MANAGEMENT DIVISION**

## Other

Operation Status: **ACTIVE**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL**

## Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID13962-02 Survey ID: SID13962

Sample ID: **SID13962-02**Survey ID: **SID13962**Sample Date: **23-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **ROOF MATERIAL**Location: **7105**

## Sample Detail

Roof - Southeast end of roof. - Adhesive under the Rubber roof

## Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50134269 FACILITIES MANAGEMENT DIVISION**

## Other

Operation Status: **ACTIVE**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**

Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID13962-03 Survey ID: SID13962

Sample ID: **SID13962-03**Survey ID: **SID13962**Sample Date: **23-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **ROOF MATERIAL**Location: **7105****Sample Detail**

Roof - South end of roof. - Rubber roof

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50134269 FACILITIES MANAGEMENT DIVISION****Other**Operation Status: **ACTIVE**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

## SAMPLE DETAIL

Sample ID: SID13962-04 Survey ID: SID13962

Sample ID: **SID13962-04**Survey ID: **SID13962**Sample Date: **23-OCT-2020**Assessment: **BULK SAMPLING**Result Type: **ROOF MATERIAL**Location: **7105****Sample Detail**

Roof - South end of roof. - Adhesive under the Rubber roof

**Sort Groups**Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**Org ID: **50000101 50133428 50133430 50134269 FACILITIES MANAGEMENT DIVISION****Other**Operation Status: **ACTIVE**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL****Sample Results**

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

# SID14203 CHARACTERIZATION PHOTO Bldg 7105

Date: 1/13/2021

Photographer: Jeff Morris



<b>HA Description</b>	White batt Insulation
<b>Sample #</b>	<b>SID14203-01</b>
<b>Sample Location / Orientation</b>	SID14203-01 – Room 2 - white batt insulation with brown paper and black on paper in East wall.
<b>Sample/Inspection Results</b>	SID14203-01 - None Detected
<b>Recommendation</b>	None

## Sample Survey Profile Report

### Survey Profile Report - Survey Coversheet

Survey ID: **SID14203**  
 Status: **OPEN**  
 Survey Title: **ASBESTOS  
 BULK\_7105\_INSULATION\_1/13/21**  
 Survey Date: **13-JAN-2021**  
 Location: **7105 FIRST**  
 IH-Safety officer: **HANCOCK,JULIA (00034540)**  
 Primary Sampler: **MORRIS,JEFFERY (00035404)**

### Request Description

Description of and Purpose for Sampling:

Characterization

Sample Rationale: **FACILITY CHARACTERIZATION**

Work Document Project Code: **3XD87SCH**

### Analytical Method

Sampling Matrix/Device: BULK MATERIAL

Sampling Method: ASBESTOS/IOP 01-12.01\_BULK

Description of Analysis Requested (for lab personnel)

Asbestos Bulk

### Survey Discussion

Discussion of Results, Expectations and History

Results for the white batt insulation material were None Detected; therefore, no asbestos was seen during analysis.

See SID13959 and SID13962 for initial sample results and inspection notes.

Recommendations to Workers and Management

None, no asbestos present.

### Survey Attachments

	Description of Attachment	Filename When Uploaded
<a href="#">View/Download</a>	SID14203 Sampling Request Bldg 7105 Trailer for CRSF Demo.pdf	SID14203 Sampling Request Bldg 7105 Trailer for CRSF Demo.pdf
<a href="#">View/Download</a>	SID14203 Sample Results	HancockSID14203.pdf
<a href="#">View/Download</a>	SID14203 Characterization Photo File FINAL	SID14203 Characterization Photo File 7105 FINAL.pdf

## Tracking

Sample Date (or start) **13-JAN-2021**

## Sample results list

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
SID14203-01	13-JAN-2021	BULK SAMPLING	INSULATION, BATTING		7105 FIRST	ASBESTOS - PLM	NONEDETECT	PERC	1

## SAMPLE DETAIL

Sample ID: SID14203-01 Survey ID: SID14203

Sample ID: **SID14203-01**Survey ID: **SID14203**Sample Date: **13-JAN-2021**Assessment: **BULK SAMPLING**Result Type: **INSULATION, BATTING**Location: **7105 FIRST**

## Sample Detail

Room # 2. White fiberglass Batt insulation in east wall near floor.

## Sort Groups

Org Category: **\_FACILITY CHARACTERIZATION-PURPOSIVE**

## Other

Operation Status: **ACTIVE**Area Category: **OFFICE AREA**Sample Method: **ASBESTOS/IOP 01-12.01\_BULK**Sample Matrix/Device: **BULK MATERIAL**

## Sample Results

Agent	Lab result	Lab unit	Concentration	Result	Unit	AL	OEL	Source
ASBESTOS - PLM				NONEDETECT	PERC		1	OSHA

# **Beryllium Characterization**

The Company has performed surveys and evaluations for the areas defined by the demolition boundaries for the CRSF Building Demolition Task. In addition to the surveys and evaluations, there have not been any known Beryllium work performed or storage of any Beryllium materials in this building. Beryllium controls are not needed for work in this area. If the Seller suspects Beryllium contamination, the Seller shall stop work and immediately inform the TPO of the Beryllium related issues/concerns and allow the Company to perform necessary sampling and subsequent cleanup (as applicable).



## Survey Profile Report - Survey Coversheet

Survey ID: **SID14061**  
Status: **OPEN**  
Survey Title: **BE\_WIPES\_FLOOR\_7033\_FIRST\_001,**  
**004\_11/18/2020**  
Survey Date: **18-NOV-2020**  
Location: **7033 FIRST**  
IH-Safety officer: **SMITH,DUANE (00965363)**  
Primary Sampler: **LINER,MIRANDA (03084423)**

### Request Description

#### Description of and Purpose for Sampling:

Determine if beryllium and/or lead contamination is present on outside floor surfaces. Data will be used to assist in determining building contamination for D&D. There is not a lot of accessible elevated sample areas.

#### Description of Sample Equipment and Placement While Sampling:

See attached for sample locations.

#### Description of Sampling Method:

Wipe Sampling. Metals IOP O1-12.5

Sample Rationale: **FACILITY CHARACTERIZATION**

### Analytical Method

Sampling Matrix/Device: WHATMAN 541 FILTER

Sampling Method: METALS\_SURFACE/IOP O1-12.5

#### Description of Analysis Requested (for lab personnel)

Beryllium

### Other

Characterization Status: **CHARACTERIZATION COMPLETE, NO EXCEEDENCES**

Characterization Category: **FLOOR**

### Survey Discussion

## Discussion of Results, Expectations and History

The results of all but one floor samples were less than the laboratory reporting limit (0.025 ug) and well under the DOE Release Criteria limit (0.2 ug/100cm<sup>2</sup>) for beryllium. One sample result was 0.033 ug which is well under the DOE Release Criteria Limit (0.2 ug/100cm<sup>2</sup>). Based on results of this survey beryllium controls are not required for access to these areas.

## Survey Conclusions and Comments

Visual Sample Plan (VSP) was used to design the survey and randomly select locations for the samples. No statistical analysis is needed for these sample results.

## Recommendations to Workers and Management

NONE

## Blanks/Controls

Sample	Analyzed agent	Result	Unit	Comments
SID14061-13	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG	Beryllium

## Tracking

Sample Date (or start) **18-NOV-2020**

## Sample results list

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
<a href="#">SID14061-01</a>	18-NOV-2020	WIPE SAMPLING	FLOOR		7033 FIRST 04	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
<a href="#">SID14061-02</a>	18-NOV-2020	WIPE SAMPLING	FLOOR		7033 FIRST 04	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
<a href="#">SID14061-03</a>	18-NOV-2020	WIPE SAMPLING	FLOOR		7033 FIRST 04	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
<a href="#">SID14061-04</a>	18-NOV-2020	WIPE SAMPLING	FLOOR		7033 FIRST 01	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
<a href="#">SID14061-05</a>	18-NOV-2020	WIPE SAMPLING	FLOOR		7033 FIRST 01	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
<a href="#">SID14061-06</a>	18-NOV-2020	WIPE SAMPLING	FLOOR		7033 FIRST 01	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
SID14061-07	18-NOV-2020	WIPE SAMPLING	FLOOR		7033 FIRST 01	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14061-08	18-NOV-2020	WIPE SAMPLING	FLOOR		7033 FIRST 01	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14061-09	18-NOV-2020	WIPE SAMPLING	FLOOR		7033 FIRST 01	BERYLLIUM AND COMPOUNDS, AS BE	0.033	UG/100CM2	0.2
SID14061-10	18-NOV-2020	WIPE SAMPLING	FLOOR		7033 FIRST 01	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14061-11	18-NOV-2020	WIPE SAMPLING	FLOOR		7033 FIRST 01	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14061-12	18-NOV-2020	WIPE SAMPLING	FLOOR		7033 FIRST 01	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2



# Analytical Report

Safety Services Division  
Industrial Hygiene  
Analytical Laboratory

Smith, Duane

Batch: 9131

Location: 7033 FIRST

Received Date: 11/20/2020

Analysis Date: 12/1/2020

Report Date: 12/4/2020

Sample ID	Analyte	Result	Units	Comments
SID14061-01	Beryllium, Whatman 541	<0.025	ug	
SID14061-02	Beryllium, Whatman 541	<0.025	ug	
SID14061-03	Beryllium, Whatman 541	<0.025	ug	
SID14061-04	Beryllium, Whatman 541	<0.025	ug	
SID14061-05	Beryllium, Whatman 541	<0.025	ug	
SID14061-06	Beryllium, Whatman 541	<0.025	ug	
SID14061-07	Beryllium, Whatman 541	<0.025	ug	
SID14061-08	Beryllium, Whatman 541	<0.025	ug	
SID14061-09	Beryllium, Whatman 541	0.033	ug	
SID14061-10	Beryllium, Whatman 541	<0.025	ug	
SID14061-11	Beryllium, Whatman 541	<0.025	ug	
SID14061-12	Beryllium, Whatman 541	<0.025	ug	
SID14061-13	Beryllium, Whatman 541	<0.025	ug	

### Reporting Level

Beryllium, Whatman 541 0.025 ug

Laboratory: IHAL

Method: IOP 01-26.17

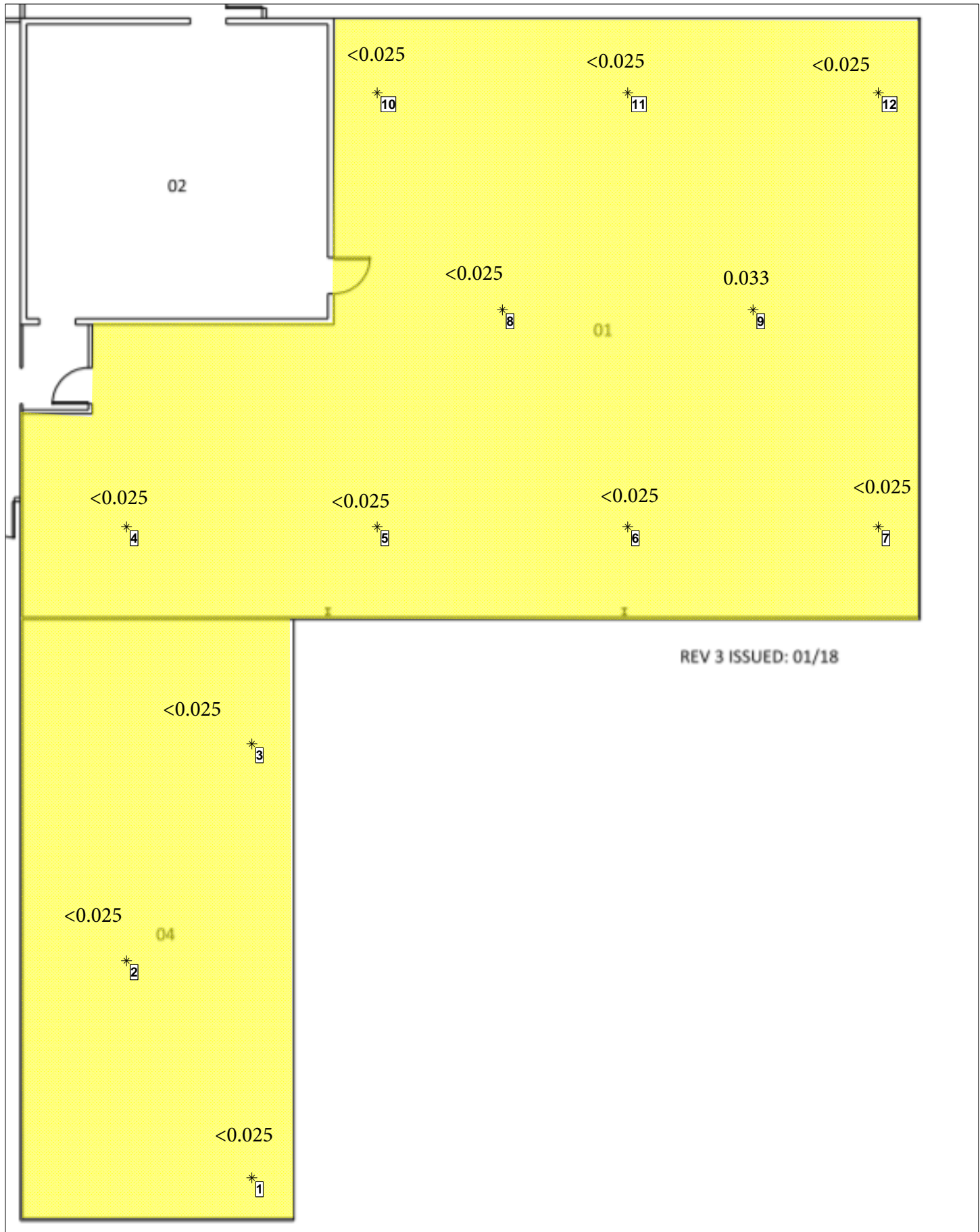
Note: Samples were received in good condition unless otherwise noted. Results are not blank corrected unless otherwise noted. Results relate only to the items tested.

Approved By: Crystal R Hoffmann

Date: 12/4/20

Crystal R. Hoffmann  
Industrial Hygiene Laboratory Manager

7033 Collect 100 cm2 wipe samples for Be and 1 ft2 wipe samples for Pb from the nearest available floor surface above the at the locations indicated.





7033 001



7033 004



## Survey Profile Report - Survey Coversheet

Survey ID: **SID14063**

Status: **OPEN**

Survey **BE**

Title: **WIPES\_FLOOR\_7033\_FIRST\_002\_003\_005\_11/18/2020**

Survey Date **18-NOV-2020**

Location: **7033 FIRST**

IH-Safety officer: **SMITH,DUANE (00965363)**

Primary Sampler: **MASSARO,REBEKKAH (03077143)**

## Request Description

### Description of and Purpose for Sampling:

Determine if beryllium contamination is present on floor surfaces inside 7033. Data will be used for characterizing building for D&D.

### Description of Sample Equipment and Placement While Sampling:

See attached map

### Description of Sampling Method:

Wipe

Sample Rationale: **FACILITY CHARACTERIZATION**

## Analytical Method

Sampling Matrix/Device: WHATMAN 541 FILTER

Sampling Method: METALS\_SURFACE/IOP O1-12.5

### Description of Analysis Requested (for lab personnel)

Beryllium

## Other

Characterization Status: **CHARACTERIZATION COMPLETE, NO EXCEEDENCES**

Characterization Category: **FLOOR**

## Survey Discussion

## Discussion of Results, Expectations and History

The results of all floor samples were less than the laboratory reporting limit (0.025 ug) and well under the DOE Release Criteria limit (0.2 ug/100cm<sup>2</sup>) for beryllium. Based on results of this survey beryllium controls are not required for access to these areas.

## Survey Conclusions and Comments

Visual Sample Plan (VSP) was used to design the survey and randomly select locations for the samples. No statistical analysis is required or possible in the case of all < LOQ.

## Recommendations to Workers and Management

NONE

## Blanks/Controls

Sample	Analyzed agent	Result	Unit	Comments
SID14063-12	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG	Beryllium

## Tracking

Sample Date (or start) **18-NOV-2020**

Sent to Lab **20-NOV-2020**

## Sample results list

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
<a href="#">SID14063-01</a>	18-NOV-2020	WIPE SAMPLING	FLOOR		7033 FIRST 05	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
<a href="#">SID14063-02</a>	18-NOV-2020	WIPE SAMPLING	FLOOR		7033 FIRST 02	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
<a href="#">SID14063-03</a>	18-NOV-2020	WIPE SAMPLING	FLOOR		7033 FIRST 05	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
<a href="#">SID14063-04</a>	18-NOV-2020	WIPE SAMPLING	FLOOR		7033 FIRST 02	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
<a href="#">SID14063-05</a>	18-NOV-2020	WIPE SAMPLING	FLOOR		7033 FIRST 02	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2



Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
SID14063-06	18-NOV-2020	WIPE SAMPLING	FLOOR		7033 FIRST 02	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14063-07	18-NOV-2020	WIPE SAMPLING	FLOOR		7033 FIRST 02	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14063-08	18-NOV-2020	WIPE SAMPLING	FLOOR		7033 FIRST 03	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14063-09	18-NOV-2020	WIPE SAMPLING	FLOOR		7033 FIRST 03	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14063-10	18-NOV-2020	WIPE SAMPLING	FLOOR		7033 FIRST 03	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14063-11	18-NOV-2020	WIPE SAMPLING	FLOOR		7033 FIRST 03	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2



# Analytical Report

Safety Services Division  
Industrial Hygiene  
Analytical Laboratory

Smith, Duane

Batch: 9129

Location: 7033 FIRST

Received Date: 11/20/2020

Analysis Date: 12/1/2020

Report Date: 12/4/2020

Sample ID	Analyte	Result	Units	Comments
SID14063-01	Beryllium, Whatman 541	<0.025	ug	
SID14063-02	Beryllium, Whatman 541	<0.025	ug	
SID14063-03	Beryllium, Whatman 541	<0.025	ug	
SID14063-04	Beryllium, Whatman 541	<0.025	ug	
SID14063-05	Beryllium, Whatman 541	<0.025	ug	
SID14063-06	Beryllium, Whatman 541	<0.025	ug	
SID14063-07	Beryllium, Whatman 541	<0.025	ug	
SID14063-08	Beryllium, Whatman 541	<0.025	ug	
SID14063-09	Beryllium, Whatman 541	<0.025	ug	
SID14063-10	Beryllium, Whatman 541	<0.025	ug	
SID14063-11	Beryllium, Whatman 541	<0.025	ug	
SID14063-12	Beryllium, Whatman 541	<0.025	ug	

### Reporting Level

Beryllium, Whatman 541 0.025 ug

Laboratory: IHAL

Method: IOP 01-26.17

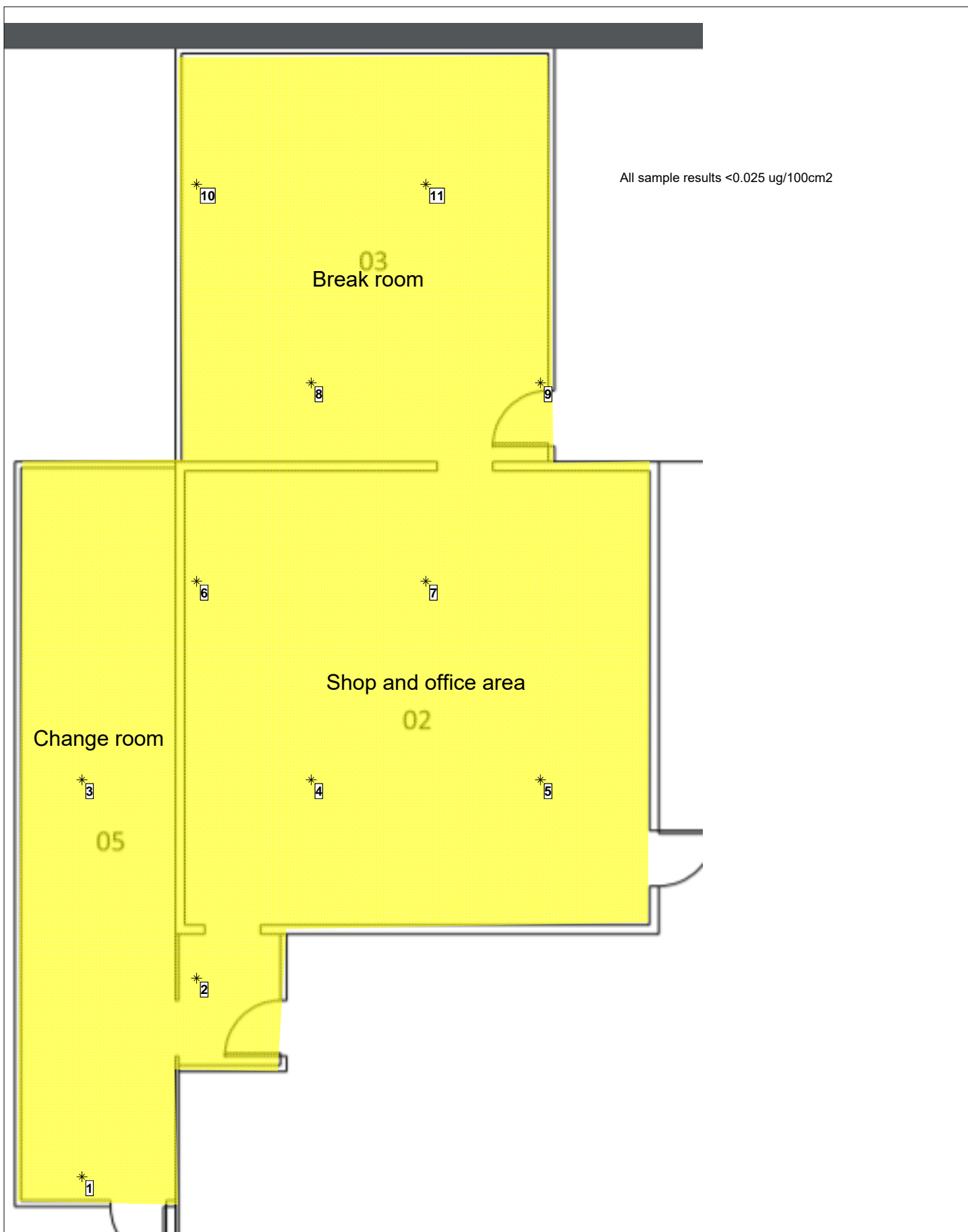
Note: Samples were received in good condition unless otherwise noted. Results are not blank corrected unless otherwise noted. Results relate only to the items tested.

Approved By: Crystal R Hoffmann

Date: 12/4/20

Crystal R. Hoffmann  
Industrial Hygiene Laboratory Manager

7033 Collect 100 cm<sup>2</sup> wipe samples for Be and 1 ft<sup>2</sup> wipe samples for Pb from the nearest available floor surface above the at the locations indicated.



## Survey Profile Report - Survey Coversheet

Survey ID: **SID14067**  
Status: **OPEN**  
Survey Title: **BE\_WIPE\_FLOOR\_BUILDING**  
7070\_NOV182020  
Survey Date: **19-NOV-2020**  
Location: **7077**  
IH-Safety officer: **SMITH,DUANE (00965363)**  
Primary Sampler: **MASSARO,REBEKKAH (03077143)**

## Request Description

## Description of and Purpose for Sampling:

Determine if Beryllium contamination is present on floor of 7077  
LOT# 17099428

## Description of Sample Equipment and Placement While Sampling:

See attached map  
Sample #12 moved to room 002

## Description of Sampling Method:

Wipe

Sample Rationale: **FACILITY CHARACTERIZATION**

## Analytical Method

Sampling Matrix/Device: WHATMAN 541 FILTER  
Sampling Method: METALS\_SURFACE/IOP O1-12.5

## Description of Analysis Requested (for lab personnel)

Beryllium

## Other

Characterization Status: **CHARACTERIZATION COMPLETE, NO EXCEEDENCES**

Characterization Category: **FLOOR**

**Survey Discussion**

## Discussion of Results, Expectations and History

The results of all 18 samples were below the DOE Release Criteria limit (0.2 ug/100 cm<sup>2</sup>). Analysis of the sample data by the Visual Sample Plan (VSP) tool resulted in a decision that the survey area as a whole is not contaminated with beryllium. Beryllium controls are not required for access to the area.

## Survey Conclusions and Comments

Visual Sample Plan (VSP) was used to design the above ceiling survey and randomly select locations for the samples. VSP was used to evaluate the resulting sample data and make inferences as to whether the area is clean or dirty. 100 cm<sup>2</sup> wipe samples were collected from floor surfaces at the locations randomly selected by VSP and submitted for beryllium analysis.

## Recommendations to Workers and Management

NONE

**Blanks/Controls**

Sample	Analyzed agent	Result	Unit	Comments
SID14067-19	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG	
SID14067-20	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG	

## Tracking

Sample Date (or start) **19-NOV-2020**

Sent to Lab **20-NOV-2020**

**Sample results list**

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
<a href="#">SID14067-01</a>	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01A	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
<a href="#">SID14067-02</a>	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01B	BERYLLIUM AND COMPOUNDS, AS BE	0.038	UG/100CM2	0.2
<a href="#">SID14067-03</a>	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01C	BERYLLIUM AND COMPOUNDS, AS BE	0.12	UG/100CM2	0.2

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
SID14067-04	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01E	BERYLLIUM AND COMPOUNDS, AS BE	0.036	UG/100CM2	0.2
SID14067-05	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01E	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14067-06	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 03	BERYLLIUM AND COMPOUNDS, AS BE	0.029	UG/100CM2	0.2
SID14067-07	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01A	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14067-08	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01B	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14067-09	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01C	BERYLLIUM AND COMPOUNDS, AS BE	0.095	UG/100CM2	0.2
SID14067-10	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01D	BERYLLIUM AND COMPOUNDS, AS BE	0.070	UG/100CM2	0.2
SID14067-11	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01E	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14067-12	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 02	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14067-13	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01A	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14067-14	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01B	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14067-15	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01C	BERYLLIUM AND COMPOUNDS, AS BE	0.069	UG/100CM2	0.2
SID14067-16	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01E	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14067-17	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01E	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
SID14067-18	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 02	BERYLLIUM AND COMPOUNDS, AS BE	0.047	UG/100CM2	0.2



# Analytical Report

Safety Services Division  
Industrial Hygiene  
Analytical Laboratory

Smith, Duane

Batch: 9133

Location: 7077

Received Date: 11/20/2020

Analysis Date: 12/1/2020

Report Date: 12/4/2020

Sample ID	Analyte	Result	Units	Comments
SID14067-01	Beryllium, Whatman 541	<0.025	ug	
SID14067-02	Beryllium, Whatman 541	0.038	ug	
SID14067-03	Beryllium, Whatman 541	0.12	ug	
SID14067-04	Beryllium, Whatman 541	0.036	ug	
SID14067-05	Beryllium, Whatman 541	<0.025	ug	
SID14067-06	Beryllium, Whatman 541	0.029	ug	
SID14067-07	Beryllium, Whatman 541	<0.025	ug	
SID14067-08	Beryllium, Whatman 541	<0.025	ug	
SID14067-09	Beryllium, Whatman 541	0.095	ug	
SID14067-10	Beryllium, Whatman 541	0.070	ug	
SID14067-11	Beryllium, Whatman 541	<0.025	ug	
SID14067-12	Beryllium, Whatman 541	<0.025	ug	
SID14067-13	Beryllium, Whatman 541	<0.025	ug	
SID14067-14	Beryllium, Whatman 541	<0.025	ug	
SID14067-15	Beryllium, Whatman 541	0.069	ug	
SID14067-16	Beryllium, Whatman 541	<0.025	ug	
SID14067-17	Beryllium, Whatman 541	<0.025	ug	
SID14067-18	Beryllium, Whatman 541	0.047	ug	
SID14067-19	Beryllium, Whatman 541	<0.025	ug	
SID14067-20	Beryllium, Whatman 541	<0.025	ug	

### Reporting Level

Beryllium, Whatman 541 0.025 ug

Laboratory: IHAL

Method: IOP 01-26.17

Note: Samples were received in good condition unless otherwise noted. Results are not blank corrected unless otherwise noted. Results relate only to the items tested.

Approved By: Crystal R. Hoffmann

Date: 12/4/20

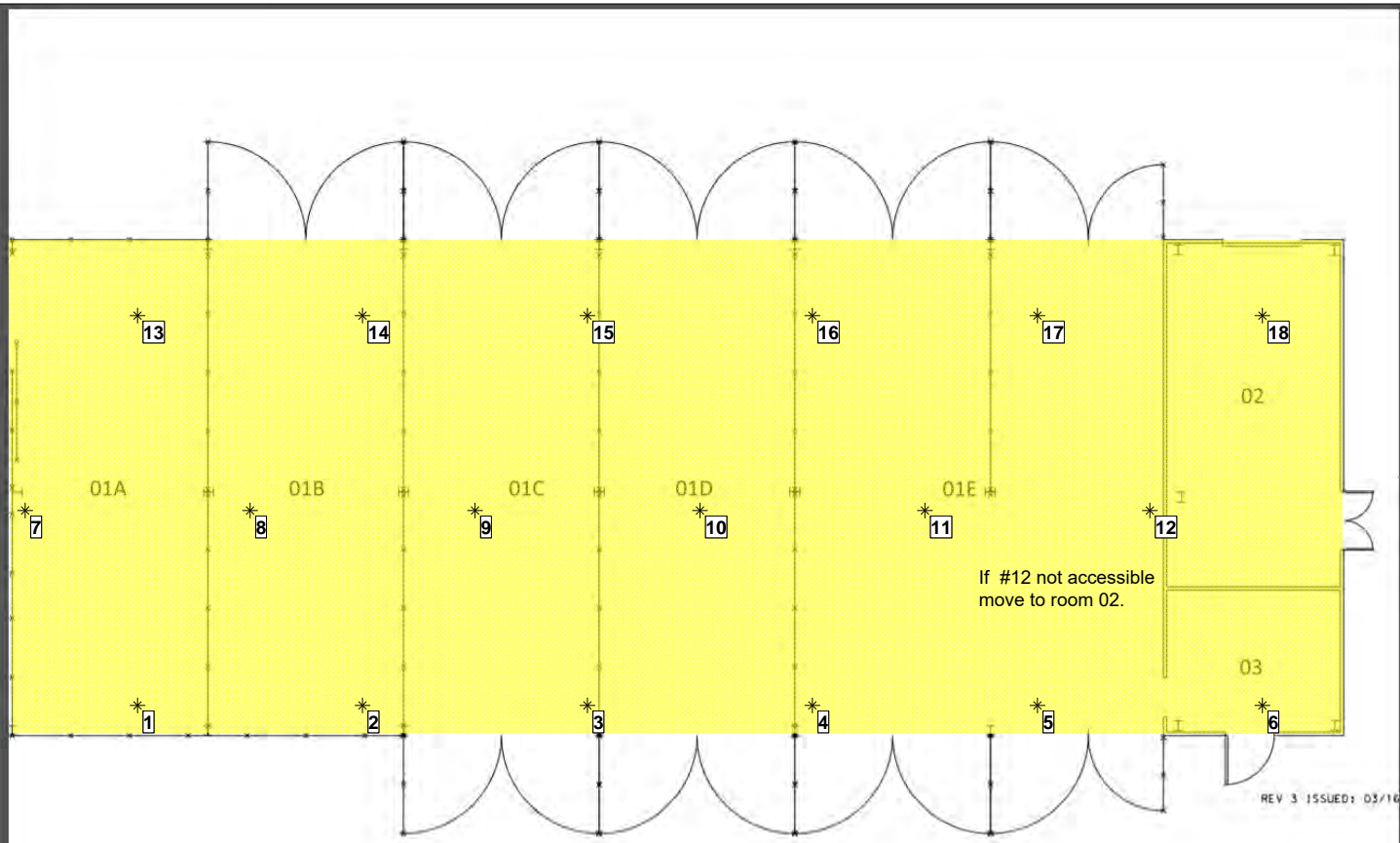
Crystal R. Hoffmann  
Industrial Hygiene Laboratory Manager

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7033 Collect 100 cm<sup>2</sup> wipe samples for Be and 1 ft<sup>2</sup> wipe samples for Pb from the nearest available floor surface at the locations indicated.



REV 3 ISSUED: 03/16

**BUILDING 7070 FIRST FLOOR PLAN**

## Sample Survey Profile Report

### Survey Profile Report - Survey Coversheet

Survey ID: **SID14123**  
Status: **OPEN**  
Survey **BE**  
Title: **WIPES\_ELEVATED\_7033\_FIRST\_003\_005\_12/9/2020**  
Survey Date: **09-DEC-2020**  
Location: **7033 FIRST**  
IH-Safety officer: **SMITH,DUANE (00965363)**  
Primary Sampler: **MASSARO,REBEKKAH (03077143)**

### Request Description

#### Description of and Purpose for Sampling:

Determine if beryllium contamination is present above ceiling of 7033. Data will be used for characterizing for Excess Facilities Demo.

#### Description of Sample Equipment and Placement While Sampling:

See attached map

#### Description of Sampling Method:

Wipe

Sample Rationale: **FACILITY CHARACTERIZATION**

### Analytical Method

Sampling Matrix/Device: WHATMAN 541 FILTER

Sampling Method: METALS\_SURFACE/IOP O1-12.5

#### Description of Analysis Requested (for lab personnel)

Beryllium

### Other

Characterization Status: **CHARACTERIZATION COMPLETE, NO EXCEEDENCES**

Characterization Category: **ABV CEILING/SUSPEND**

### Survey Discussion

Discussion of Results, Expectations and History

The results of all but once above ceiling/elevated samples were less than the laboratory reporting limit (0.025 ug) and all were well under the DOE Release Criteria limit (0.2 ug/100cm<sup>2</sup>). Based on results of this survey beryllium controls are not required for work above ceiling or elevated surfaces in these areas.

#### Survey Conclusions and Comments

Visual Sample Plan (VSP) was used to design the survey and randomly select locations for the samples.

#### Recommendations to Workers and Management

NONE

#### Blanks/Controls

Sample	Analyzed agent	Result	Unit	Comments
SID14123-12	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG	Beryllium

#### Tracking

Sample Date (or start) **09-DEC-2020**

Sent to Lab **10-DEC-2020**

#### Sample results list

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
<a href="#">SID14123-01</a>	09-DEC-2020	WIPE SAMPLING	ABOVE CEILING		7033 FIRST 05	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
<a href="#">SID14123-02</a>	09-DEC-2020	WIPE SAMPLING	ABOVE CEILING		7033 FIRST 05	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
<a href="#">SID14123-03</a>	09-DEC-2020	WIPE SAMPLING	ABOVE CEILING		7033 FIRST 05	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
<a href="#">SID14123-04</a>	09-DEC-2020	WIPE SAMPLING	ABOVE CEILING		7033 FIRST 03	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
SID14123-05	09-DEC-2020	WIPE SAMPLING	ABOVE CEILING		7033 FIRST 03	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14123-06	09-DEC-2020	WIPE SAMPLING	ABOVE CEILING		7033 FIRST 03	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14123-07	09-DEC-2020	WIPE SAMPLING	ABOVE CEILING		7033 FIRST 03	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14123-08	09-DEC-2020	WIPE SAMPLING	ABOVE CEILING		7033 FIRST 03	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14123-09	09-DEC-2020	WIPE SAMPLING	ABOVE CEILING		7033 FIRST 03	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14123-10	09-DEC-2020	WIPE SAMPLING	ABOVE CEILING		7033 FIRST 03	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14123-11	09-DEC-2020	WIPE SAMPLING	ABOVE CEILING		7033 FIRST 05	BERYLLIUM AND COMPOUNDS, AS BE	0.028	UG/100CM2	0.2



# Analytical Report

Safety Services Division  
Industrial Hygiene  
Analytical Laboratory

Smith, Duane

Batch: 9170

Location: 7033 FIRST

Received Date: 12/11/2020

Analysis Date: 12/16/2020

Report Date: 12/18/2020

Sample ID	Analyte	Result	Units	Comments
SID14123-01	Beryllium, Whatman 541	<0.025	ug	
SID14123-02	Beryllium, Whatman 541	<0.025	ug	
SID14123-03	Beryllium, Whatman 541	<0.025	ug	
SID14123-04	Beryllium, Whatman 541	<0.025	ug	
SID14123-05	Beryllium, Whatman 541	<0.025	ug	
SID14123-06	Beryllium, Whatman 541	<0.025	ug	
SID14123-07	Beryllium, Whatman 541	<0.025	ug	
SID14123-08	Beryllium, Whatman 541	<0.025	ug	
SID14123-09	Beryllium, Whatman 541	<0.025	ug	
SID14123-10	Beryllium, Whatman 541	<0.025	ug	
SID14123-11	Beryllium, Whatman 541	0.028	ug	
SID14123-12	Beryllium, Whatman 541	<0.025	ug	

### Reporting Level

Beryllium, Whatman 541 0.025 ug

Laboratory: IHAL

Method: IOP 01-26.17

Note: Samples were received in good condition unless otherwise noted. Results are not blank corrected unless otherwise noted. Results relate only to the items tested.

Approved By: Crystal R. Hoffmann

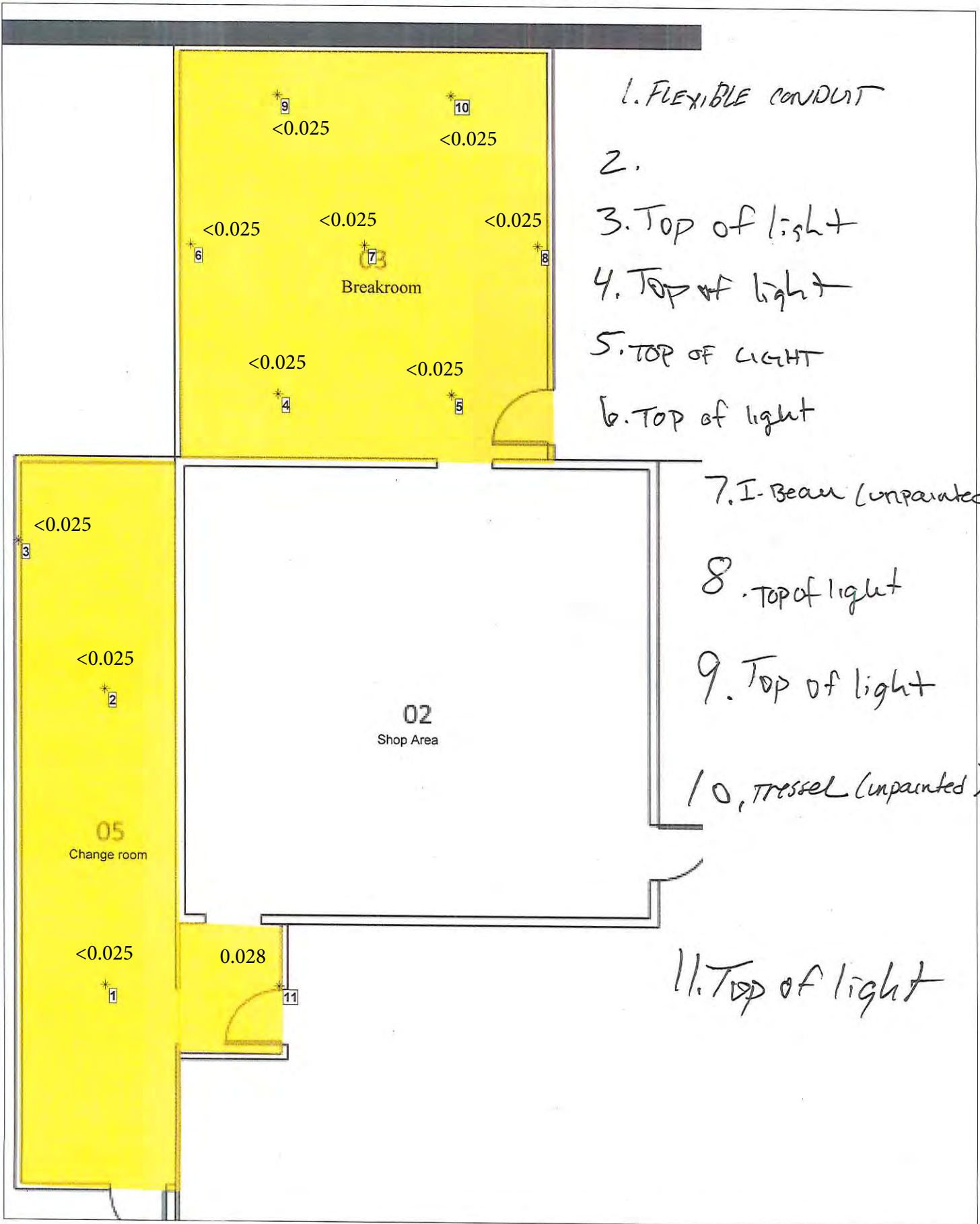
Date: 12/18/20

Crystal R. Hoffmann  
Industrial Hygiene Laboratory Manager

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12/18/2020 11:22:12 AM

7055 Collect 100 cm<sup>2</sup> wipe samples for Be and 1 ft<sup>2</sup> wipe samples for Pb from the nearest available upward-facing surface above the suspended ceiling at the locations indicated. Follow requirements in the attached BEPP.





Break room. Change room similar ceiling but easier access.

## Sample Survey Profile Report

### Survey Profile Report - Survey Coversheet

Survey ID: **SID14331**  
Status: **OPEN**  
Survey Title: **BE WIPES\_EQUIPMENT\_7033\_2/19/2021**  
Survey Date: **19-FEB-2021**  
Location: **7033**  
IH-Safety officer: **SMITH,DUANE (00965363)**  
Primary Sampler: **MORRIS,JEFFERY (00035404)**

### Request Description

#### Description of and Purpose for Sampling:

Determine if beryllium contamination is present on equipment remaining at 7033. Data will be used for characterizing equipment before scraping. All samples were composite samples.

Sample Rationale: **SCREENING**

Work Document Project Code: **3xd87sch**

### Analytical Method

Sampling Matrix/Device: WHATMAN 541 FILTER

Sampling Method: METALS\_SURFACE/IOP O1-12.5

#### Description of Analysis Requested (for lab personnel)

Beryllium

### Other

Characterization Status: **CHARACTERIZATION COMPLETE, NO EXCEEDENCES**

Characterization Category: **EQUIPMENT/ITEMS**

### Survey Discussion

#### Discussion of Results, Expectations and History

The results of all 44 samples were well below the DOE Release Criteria limit (0.2 ug/100cm<sup>2</sup>) and 38 of the samples were under the reporting limit of the laboratory (0.025 ug). Collection of additional samples is not indicated. Beryllium controls are not required for the equipment at 7033.

#### Survey Conclusions and Comments



Wipe samples were collect from the upward facing surfaces of racks, cabinets and various pieces of equipment inside and outside. Composite samples were collected to allow for screening more items. All samples reported as 100 cm2.

#### Recommendations to Workers and Management

None

#### Blanks/Controls

Sample	Analyzed agent	Result	Unit	Comments
SID14331-45	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG	
SID14331-46	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG	
SID14331-47	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG	
SID14331-48	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG	

#### Tracking

Sample Date (or start) **19-FEB-2021**

Sent to Lab **19-FEB-2021**

#### Sample results list

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
<a href="#">SID14331-01</a>	19-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7033	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
<a href="#">SID14331-02</a>	19-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7033	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
<a href="#">SID14331-03</a>	19-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7033	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
<a href="#">SID14331-04</a>	19-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7033	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
<a href="#">SID14331-05</a>	19-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7033	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
SID14331-06	19-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7033	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14331-07	19-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7033	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14331-08	19-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7033	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14331-09	19-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7033	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14331-10	19-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7033	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14331-11	19-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7033	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14331-12	19-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7033	BERYLLIUM AND COMPOUNDS, AS BE	0.052	UG/100CM2	0.2
SID14331-13	19-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7033	BERYLLIUM AND COMPOUNDS, AS BE	0.027	UG/100CM2	0.2
SID14331-14	19-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7033	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14331-15	19-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7033	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14331-16	19-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7033	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14331-17	19-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7033	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14331-18	19-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7033	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14331-19	19-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7033	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14331-20	19-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7033	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14331-21	19-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7033	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14331-22	19-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7033	BERYLLIUM AND COMPOUNDS, AS BE	0.06	UG/100CM2	0.2
SID14331-23	19-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7033	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14331-24	19-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7033	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14331-25	19-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7033	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
SID14331-26	19-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7033	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14331-27	19-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7033	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14331-28	19-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7033	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14331-29	19-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7033	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14331-30	19-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7033	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14331-31	19-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7033	BERYLLIUM AND COMPOUNDS, AS BE	0.031	UG/100CM2	0.2
SID14331-32	19-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7033	BERYLLIUM AND COMPOUNDS, AS BE	0.025	UG/100CM2	0.2
SID14331-33	19-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7033	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14331-34	19-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7033	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14331-35	19-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7033	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14331-36	19-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7033	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14331-37	19-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7033	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14331-38	19-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7033	BERYLLIUM AND COMPOUNDS, AS BE	0.029	UG/100CM2	0.2
SID14331-39	19-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7033	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14331-40	19-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7033	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14331-41	19-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7033	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14331-42	19-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7033	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14331-43	19-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7033	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14331-44	19-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7033	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2



# Analytical Report

Safety Services Division  
Industrial Hygiene  
Analytical Laboratory

Smith, Duane

Batch: 9319

Location: 7033

Received Date: 2/19/2021

Analysis Date: 2/23/2021

Report Date: 2/25/2021

Sample ID	Analyte	Result	Units	Comments
SID14331-01	Beryllium, Whatman 541	<0.025	ug	
SID14331-02	Beryllium, Whatman 541	<0.025	ug	
SID14331-03	Beryllium, Whatman 541	<0.025	ug	
SID14331-04	Beryllium, Whatman 541	<0.025	ug	
SID14331-05	Beryllium, Whatman 541	<0.025	ug	
SID14331-06	Beryllium, Whatman 541	<0.025	ug	
SID14331-07	Beryllium, Whatman 541	<0.025	ug	
SID14331-08	Beryllium, Whatman 541	<0.025	ug	
SID14331-09	Beryllium, Whatman 541	<0.025	ug	
SID14331-10	Beryllium, Whatman 541	<0.025	ug	
SID14331-11	Beryllium, Whatman 541	<0.025	ug	
SID14331-12	Beryllium, Whatman 541	0.052	ug	
SID14331-13	Beryllium, Whatman 541	0.027	ug	
SID14331-14	Beryllium, Whatman 541	<0.025	ug	
SID14331-15	Beryllium, Whatman 541	<0.025	ug	
SID14331-16	Beryllium, Whatman 541	<0.025	ug	
SID14331-17	Beryllium, Whatman 541	<0.025	ug	
SID14331-18	Beryllium, Whatman 541	<0.025	ug	
SID14331-19	Beryllium, Whatman 541	<0.025	ug	
SID14331-20	Beryllium, Whatman 541	<0.025	ug	
SID14331-21	Beryllium, Whatman 541	<0.025	ug	
SID14331-22	Beryllium, Whatman 541	0.060	ug	
SID14331-23	Beryllium, Whatman 541	<0.025	ug	
SID14331-24	Beryllium, Whatman 541	<0.025	ug	
SID14331-25	Beryllium, Whatman 541	<0.025	ug	

# Analytical Report

Sample ID	Analyte	Result	Units	Comments
SID14331-26	Beryllium, Whatman 541	<0.025	ug	
SID14331-27	Beryllium, Whatman 541	<0.025	ug	
SID14331-28	Beryllium, Whatman 541	<0.025	ug	
SID14331-29	Beryllium, Whatman 541	<0.025	ug	
SID14331-30	Beryllium, Whatman 541	<0.025	ug	
SID14331-31	Beryllium, Whatman 541	0.031	ug	
SID14331-32	Beryllium, Whatman 541	0.025	ug	
SID14331-33	Beryllium, Whatman 541	<0.025	ug	
SID14331-34	Beryllium, Whatman 541	<0.025	ug	
SID14331-35	Beryllium, Whatman 541	<0.025	ug	
SID14331-36	Beryllium, Whatman 541	<0.025	ug	
SID14331-37	Beryllium, Whatman 541	<0.025	ug	
SID14331-38	Beryllium, Whatman 541	0.029	ug	
SID14331-39	Beryllium, Whatman 541	<0.025	ug	
SID14331-40	Beryllium, Whatman 541	<0.025	ug	
SID14331-41	Beryllium, Whatman 541	<0.025	ug	
SID14331-42	Beryllium, Whatman 541	<0.025	ug	
SID14331-43	Beryllium, Whatman 541	<0.025	ug	
SID14331-44	Beryllium, Whatman 541	<0.025	ug	
SID14331-45	Beryllium, Whatman 541	<0.025	ug	
SID14331-46	Beryllium, Whatman 541	<0.025	ug	
SID14331-47	Beryllium, Whatman 541	<0.025	ug	
SID14331-48	Beryllium, Whatman 541	<0.025	ug	

**Reporting Level**

Beryllium, Whatman 541 0.025 ug

**Laboratory:**

IHAL

**Method:**

IOP 01-26.17

Note: Samples were received in good condition unless otherwise noted. Results are not blank corrected unless otherwise noted. Results relate only to the items tested.

Approved By: \_\_\_\_\_



Date: \_\_\_\_\_

2/25/21

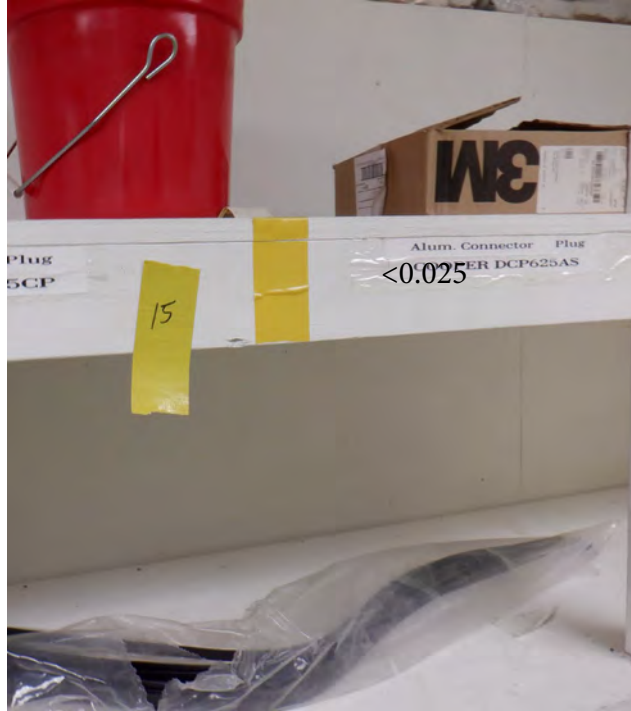
**Authorized IHAL Representative**

Page 2 of 2

2/25/2021 10:25:11 AM



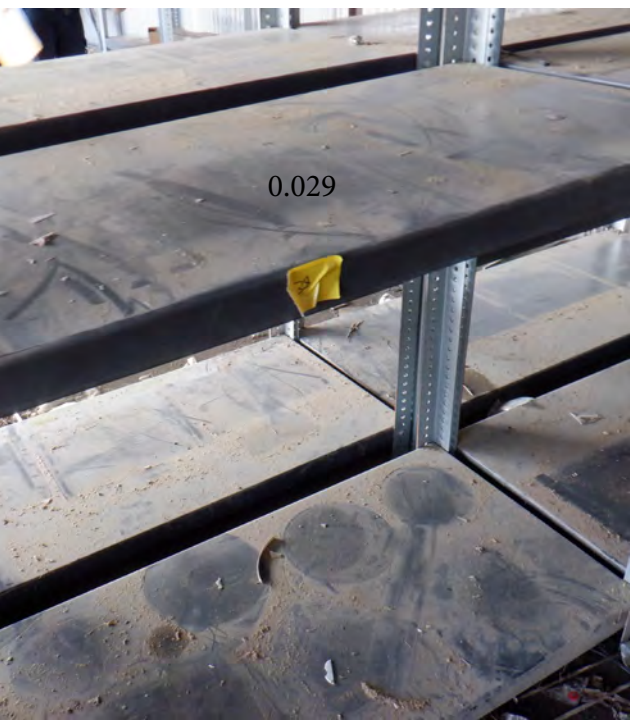














## Survey Profile Report - Survey Coversheet

Survey ID: **SID13307**  
Status: **OPEN**  
Survey Title: **BE WIPES\_ABOVE  
CEILING\_7035A\_7035B\_4.23.2020**  
Survey Date: **23-APR-2020**  
Location: **7035A FIRST**  
IH-Safety officer: **ORR,THOMAS (00029740)**  
Primary Sampler: **CUETO,ERIK (00694595)**

### Request Description

#### Description of and Purpose for Sampling:

Determine if beryllium contamination is present above the suspended ceiling or on elevated surfaces. Survey supports planning for CRSF-related demolition project. The buildings are currently occupied, but are scheduled to be vacated for demolition by the end of the year.

#### Description of Sample Equipment and Placement While Sampling:

Whatman 541 filters lot#: 170019430.

Sample Rationale: **FACILITY CHARACTERIZATION**

### Analytical Method

Sampling Matrix/Device: WHATMAN 541 FILTER

Sampling Method: METALS\_SURFACE/IOP O1-12.5

#### Description of Analysis Requested (for lab personnel)

BERYLLIUM

### Other

Characterization Status: **CHARACTERIZATION COMPLETE, NO EXCEEDENCES**

Characterization Category: **ABV CEILING/SUSPEND**

## Survey Discussion

### Discussion of Results, Expectations and History

The results of all eleven samples were less than the laboratory reporting limit (0.050 ug) and well under the DOE Release Criteria limit (0.2 ug/100 cm<sup>2</sup>) making the data set extremely censored. The attached nonparametric method for decision-making from severely-censored data sets (Hewitt) concluded that there is 99% confidence the 95th percentile is less than the Release Criteria limit. Beryllium controls are not required to access and work above the ceiling level in these two buildings.

### Survey Conclusions and Comments

Both buildings were constructed in 1977. Above-ceiling/elevated surfaces in both buildings were combined into one survey area based on common use over time as paint storage and mixing areas. Visual Sample Plan (VSP) was used to design the survey and randomly select locations for the samples.

### Recommendations to Workers and Management

None.

## Blanks/Controls

Sample	Analyzed agent	Result	Unit	Comments
SID13307-12	BERYLLIUM AND COMPOUNDS, AS BE	<0.050	UG	
SID13307-13	BERYLLIUM AND COMPOUNDS, AS BE	<0.050	UG	

## Survey Attachments

	Description of Attachment	
<a href="#">View/Download</a>	Green Tag.pdf	Green Tag.pdf
<a href="#">View/Download</a>	IH Sample Request - 7035A and B_Above Ceiling_Be Pb.pdf	IH Sample Request - 7035A and B_Above Ceiling_Be Pb.pdf
<a href="#">View/Download</a>	SID13307_13308_Sample Diagram.pdf	SID13307_13308_Sample Diagram.pdf
<a href="#">View/Download</a>	Lab Report	OrrSID13307_Revised.pdf
<a href="#">View/Download</a>	Survey Design	Survey Design.pdf
<a href="#">View/Download</a>	NP Method for Decisionmaking	NP_method_for_SevereCensoring - SID13307.pdf
<a href="#">View/Download</a>	Survey Report	Survey Report - SID13307.pdf

## Tracking

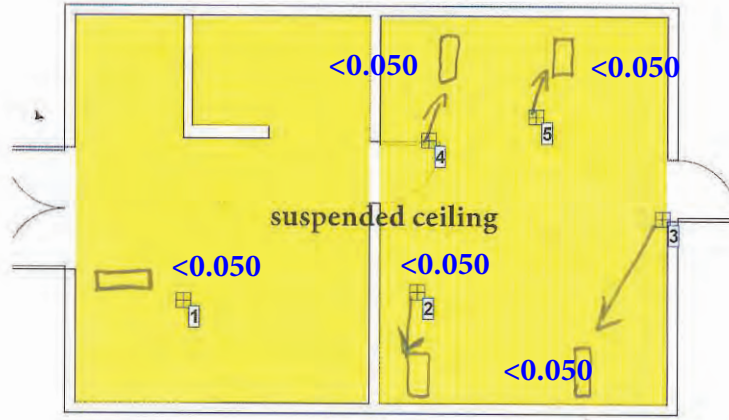
Sample Date (or start) **23-APR-2020**Dates Results Received from Lab: **06-MAY-2020**Date Survey Report Sent: **07-MAY-2020****Sample results list**

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
SID13307-01	23-APR-2020	WIPE SAMPLING	ABOVE CEILING		7035A FIRST	BERYLLIUM AND COMPOUNDS, AS BE	<0.050	UG/100CM2	0.2
SID13307-02	23-APR-2020	WIPE SAMPLING	ABOVE CEILING		7035A FIRST	BERYLLIUM AND COMPOUNDS, AS BE	<0.050	UG/100CM2	0.2
SID13307-03	23-APR-2020	WIPE SAMPLING	ABOVE CEILING		7035A FIRST	BERYLLIUM AND COMPOUNDS, AS BE	<0.050	UG/100CM2	0.2
SID13307-04	23-APR-2020	WIPE SAMPLING	ABOVE CEILING		7035A FIRST	BERYLLIUM AND COMPOUNDS, AS BE	<0.050	UG/100CM2	0.2
SID13307-05	23-APR-2020	WIPE SAMPLING	ABOVE CEILING		7035A FIRST	BERYLLIUM AND COMPOUNDS, AS BE	<0.050	UG/100CM2	0.2
SID13307-06	23-APR-2020	WIPE SAMPLING	ABOVE CEILING		7035B FIRST	BERYLLIUM AND COMPOUNDS, AS BE	<0.050	UG/100CM2	0.2
SID13307-07	23-APR-2020	WIPE SAMPLING	ABOVE CEILING		7035B FIRST	BERYLLIUM AND COMPOUNDS, AS BE	<0.050	UG/100CM2	0.2
SID13307-08	23-APR-2020	WIPE SAMPLING	ABOVE CEILING		7035B FIRST	BERYLLIUM AND COMPOUNDS, AS BE	<0.050	UG/100CM2	0.2
SID13307-09	23-APR-2020	WIPE SAMPLING	ABOVE CEILING		7035B FIRST	BERYLLIUM AND COMPOUNDS, AS BE	<0.050	UG/100CM2	0.2
SID13307-10	23-APR-2020	WIPE SAMPLING	ABOVE CEILING		7035B FIRST	BERYLLIUM AND COMPOUNDS, AS BE	<0.050	UG/100CM2	0.2
SID13307-11	23-APR-2020	WIPE SAMPLING	ABOVE CEILING		7035B FIRST	BERYLLIUM AND COMPOUNDS, AS BE	<0.050	UG/100CM2	0.2

Collect 100 cm<sup>2</sup> wipe samples for Be and 1 ft<sup>2</sup> wipe samples for Pb from the nearest available upward-facing surface at the locations indicated. Follow requirements in the attached BEPP in 7035A.

□ - Sampled lights

Paint Mixing



REV 1 ISSUED: 12/10

BUILDING 7035A FIRST FLOOR PLAN



REV 1 ISSUED: 12/10

BUILDING 7035B FIRST FLOOR PLAN

Paint Storage

Be SID 13307

Pb SID 13308

\* Above ceiling to roof is open w/ very limited surfaces to sample.  
 - per Tom Orr, move sample location to nearest light fixture.

01 light

02

03

04

05

06 metal bracket

07 " "

08 C-channel Beam

09 Light

10

11





Your P.O. #: 4000159100  
Your Project #: 7035A FIRST

**Attention: Crystal Sugarman**

OAK RIDGE NATIONAL LABORATORY  
1 Bethel Valley Road  
Oak Ridge, TN  
USA 37831

**Report Date: 05/06/2020**  
Report #: R6165646  
Version: 2 - Revision

**ANALYTICAL REPORT – REVISED REPORT**

**BV LABS JOB #: COA4113**

**Received: 04/28/2020, 00:00**

Sample Matrix: Swab  
# Samples Received: 13

<b>Analyses</b>	<b>Quantity</b>	<b>Date Analyzed</b>	<b>Laboratory Method</b>	<b>Analytical Method</b>
Metals, Welding, by OSHA ID125 - Wipe (1)	13	04/30/2020	OSHA ID 125 - Prep and Analysis for ICP	OSHA ID 125G

This report shall not be reproduced except in full, without the written approval of the laboratory.  
Results relate only to the items tested.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

(1) Bureau Veritas Laboratories is accredited by the AIHA-LAP, LLC ELLAP program as laboratory number 100967. ELLAP meets the requirements of the National Lead Laboratory Accreditation Program (NLLAP), established under Title X of the Residential Lead-Based Paint Hazard Reduction Act of 1992 and includes paint, soil dust wipe analysis.

**Encryption Key**

Please direct all questions regarding this Analytical Report to your Project Manager.  
Michael Wantland, CS  
Email: Michael.Wantland@bvlabs.com  
Phone# (248) 344-1770  
=====

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports.



BUREAU  
VERITAS

BV Labs Job #: COA4113  
Report Date: 05/06/2020

OAK RIDGE NATIONAL LABORATORY  
Client Project #: 7035A FIRST  
Your P.O. #: 4000159100

### ANALYTICAL RESULTS

Client ID: SID13307-01		Matrix: Swab			
BV Labs ID: MNH538		Sample Media: Whatman filter - 4"			
Date Sampled: 04/23/2020					
ANALYTE	Mass ug	Concentration ug/100cm2	RL ug	Test Method	Date Analyzed
Beryllium (Be)	<0.050	N/A	0.050	OSHA ID 125G	04/30/2020
RL = Reporting Limit					

Client ID: SID13307-02		Matrix: Swab			
BV Labs ID: MNH539		Sample Media: Whatman filter - 4"			
Date Sampled: 04/23/2020					
ANALYTE	Mass ug	Concentration ug/100cm2	RL ug	Test Method	Date Analyzed
Beryllium (Be)	<0.050	N/A	0.050	OSHA ID 125G	04/30/2020
RL = Reporting Limit					

Client ID: SID13307-03		Matrix: Swab			
BV Labs ID: MNH540		Sample Media: Whatman filter - 4"			
Date Sampled: 04/23/2020					
ANALYTE	Mass ug	Concentration ug/100cm2	RL ug	Test Method	Date Analyzed
Beryllium (Be)	<0.050	N/A	0.050	OSHA ID 125G	04/30/2020
RL = Reporting Limit					

Client ID: SID13307-04		Matrix: Swab			
BV Labs ID: MNH541		Sample Media: Whatman filter - 4"			
Date Sampled: 04/23/2020					
ANALYTE	Mass ug	Concentration ug/100cm2	RL ug	Test Method	Date Analyzed
Beryllium (Be)	<0.050	N/A	0.050	OSHA ID 125G	04/30/2020
RL = Reporting Limit					

Client ID: SID13307-05		Matrix: Swab			
BV Labs ID: MNH542		Sample Media: Whatman filter - 4"			
Date Sampled: 04/23/2020					
ANALYTE	Mass ug	Concentration ug/100cm2	RL ug	Test Method	Date Analyzed
Beryllium (Be)	<0.050	N/A	0.050	OSHA ID 125G	04/30/2020
RL = Reporting Limit					



BV Labs Job #: COA4113  
 Report Date: 05/06/2020

OAK RIDGE NATIONAL LABORATORY  
 Client Project #: 7035A FIRST  
 Your P.O. #: 4000159100

**ANALYTICAL RESULTS**

Client ID: SID13307-06		Matrix: Swab			
BV Labs ID: MNH543		Sample Media: Whatman filter - 4"			
Date Sampled: 04/23/2020					
ANALYTE	Mass ug	Concentration ug/100cm2	RL ug	Test Method	Date Analyzed
Beryllium (Be)	<0.050	N/A	0.050	OSHA ID 125G	04/30/2020
RL = Reporting Limit					

Client ID: SID13307-07		Matrix: Swab			
BV Labs ID: MNH544		Sample Media: Whatman filter - 4"			
Date Sampled: 04/23/2020					
ANALYTE	Mass ug	Concentration ug/100cm2	RL ug	Test Method	Date Analyzed
Beryllium (Be)	<0.050	N/A	0.050	OSHA ID 125G	04/30/2020
RL = Reporting Limit					

Client ID: SID13307-08		Matrix: Swab			
BV Labs ID: MNH545		Sample Media: Whatman filter - 4"			
Date Sampled: 04/23/2020					
ANALYTE	Mass ug	Concentration ug/100cm2	RL ug	Test Method	Date Analyzed
Beryllium (Be)	<0.050	N/A	0.050	OSHA ID 125G	04/30/2020
RL = Reporting Limit					

Client ID: SID13307-09		Matrix: Swab			
BV Labs ID: MNH546		Sample Media: Whatman filter - 4"			
Date Sampled: 04/23/2020					
ANALYTE	Mass ug	Concentration ug/100cm2	RL ug	Test Method	Date Analyzed
Beryllium (Be)	<0.050	N/A	0.050	OSHA ID 125G	04/30/2020
RL = Reporting Limit					

Client ID: SID13307-10		Matrix: Swab			
BV Labs ID: MNH547		Sample Media: Whatman filter - 4"			
Date Sampled: 04/23/2020					
ANALYTE	Mass ug	Concentration ug/100cm2	RL ug	Test Method	Date Analyzed
Beryllium (Be)	<0.050	N/A	0.050	OSHA ID 125G	04/30/2020
RL = Reporting Limit					



BUREAU  
VERITAS

BV Labs Job #: COA4113  
Report Date: 05/06/2020

OAK RIDGE NATIONAL LABORATORY  
Client Project #: 7035A FIRST  
Your P.O. #: 4000159100

### ANALYTICAL RESULTS

Client ID: SID13307-11		Matrix: Swab			
BV Labs ID: MNH548		Sample Media: Whatman filter - 4"			
Date Sampled: 04/23/2020					
ANALYTE	Mass ug	Concentration ug/100cm2	RL ug	Test Method	Date Analyzed
Beryllium (Be)	<0.050	N/A	0.050	OSHA ID 125G	04/30/2020
RL = Reporting Limit					

Client ID: SID13307-12		Matrix: Swab			
BV Labs ID: MNH549		Sample Media: Whatman filter - 4"			
Date Sampled: 04/23/2020					
ANALYTE	Mass ug	Concentration ug/100cm2	RL ug	Test Method	Date Analyzed
Beryllium (Be)	<0.050	N/A	0.050	OSHA ID 125G	04/30/2020
RL = Reporting Limit					

Client ID: SID13307-13		Matrix: Swab			
BV Labs ID: MNH550		Sample Media: Whatman filter - 4"			
Date Sampled: 04/23/2020					
ANALYTE	Mass ug	Concentration ug/100cm2	RL ug	Test Method	Date Analyzed
Beryllium (Be)	<0.050	N/A	0.050	OSHA ID 125G	04/30/2020
RL = Reporting Limit					



BUREAU  
VERITAS

BV Labs Job #: COA4113

Report Date: 05/06/2020

OAK RIDGE NATIONAL LABORATORY

Client Project #: 7035A FIRST

Your P.O. #: 4000159100

### GENERAL COMMENTS

Unless otherwise noted below the following statements apply: 1) all samples were received in acceptable condition, 2) all quality control results associated with this sample set were within acceptable limits and /or do not adversely affect the reported results and 3) the industrial hygiene results have not been blank corrected.

The client provided their pertinent field sampling data on the analysis request paperwork submitted with the samples. Results apply to the sample as received.

**Revision:**

As requested May 6, 2020, we have updated the project name in this revised report.

**Results relate only to the items tested.**



BUREAU VERITAS

# Request for Laboratory Analytical Services

IMPORTANT: Date results required: 5/14/20 ~~5/11/2020~~ *5/14/20* *4/11/20*

Page: 1 of 1

Rush charges authorized? Yes  No

For Lab Use Only

Fax or  E-mail results

Lab Project No.

E-mail Address: hoffmannrcr@ornl.gov

*COA 4113*

## Bureau Veritas North America, Inc.

<b>Report results to:</b>	<b>Client Project Number:</b> <u>7035A</u>	<b>Send invoice to:</b>	<b>P.O. No.</b> <u>4000159100</u>
Name <u>Crystal Sugarman</u>		Name _____	
Company <u>ORNL</u>		Company <u>ORNL</u>	
Mailing Address <u>1 Bethel Valley Rd</u>		Address _____	
City, State, Zip <u>Oak Ridge TN, 37831</u>		City, State, Zip _____	
Telephone No. <u>865-574-9765</u> Fax No. _____		Telephone No. _____	

Special instructions and/or specific regulatory requirements:  
(method, limit of detection, etc.)

**Soil samples only: Which state are these from?** \_\_\_\_\_

Water samples are:

Drinking water \_\_\_\_\_ Groundwater \_\_\_\_\_

Wastewater \_\_\_\_\_

Client Sample Identification	Date Sampled	Time Sampled	Matrix/Media	Air Volume (Liters)	# of Jars	ANALYSIS REQUESTED (List each analyte on the lines below, multiple analytes per line)
SID13307-01	4/23/2020		Whatman 541			Beryllium by ICP, OSHA 125G
SID13307-02	4/23/2020		Whatman 541			Beryllium by ICP, OSHA 125G
SID13307-03	4/23/2020		Whatman 541			Beryllium by ICP, OSHA 125G
SID13307-04	4/23/2020		Whatman 541			Beryllium by ICP, OSHA 125G
SID13307-05	4/23/2020		Whatman 541			Beryllium by ICP, OSHA 125G
SID13307-06	4/23/2020		Whatman 541			Beryllium by ICP, OSHA 125G
SID13307-07	4/23/2020		Whatman 541			Beryllium by ICP, OSHA 125G
SID13307-08	4/23/2020		Whatman 541			Beryllium by ICP, OSHA 125G
SID13307-09	4/23/2020		Whatman 541			Beryllium by ICP, OSHA 125G
SID13307-10	4/23/2020		Whatman 541			Beryllium by ICP, OSHA 125G
SID13307-11	4/23/2020		Whatman 541			Beryllium by ICP, OSHA 125G
SID13307-12	4/23/2020		Whatman 541			Beryllium by ICP, OSHA 125G
SID13307-13	4/23/2020		Whatman 541			Beryllium by ICP, OSHA 125G

<b>Relinquished by:</b> _____	<b>Date/Time</b> _____	<b>Received by:</b> _____	<b>Date/Time</b> _____
<b>Relinquished by:</b> <i>[Signature]</i>	<b>Date/Time</b> <u>4-27-20 11:20am</u>	<b>Received by:</b> <i>[Signature]</i>	<b>Date/Time</b> <u>4-28-20 12:43p</u>
<b>Method of Shipment:</b> _____		<b>Sample Condition on Receipt:</b> _____	
<b>Authorized by:</b> <i>[Signature]</i>		<b>Acceptable</b> <input checked="" type="checkbox"/>	<b>Other:</b> _____
	(Signature MUST accompany request!)		(Explain)

<b>Ship to:</b>	<b>Detroit Lab</b> 22345 Roethel Drive Novi, MI 48375 248.344.2652 800.806.5887 Fax: 248.344.2655	<b>Atlanta Lab</b> 3380 Chastain Meadows Pkwy., Ste 300 Kennesaw, GA 30144 770.499.7500 800.252.9919 Fax: 770.499.7511	<b>Chicago Lab</b> 95 Oakwood Road Lake Zurich, IL 60047 888.576.7522 847.726.3320 Fax: 847.726.3323	<b>Canadian Clients</b> 1415 Janette Ave Windsor, ON N8X 1Z1
				<b>Visit our Website:</b> <a href="http://www.us.bureauveritas.com/hse">www.us.bureauveritas.com/hse</a>

## Survey Profile Report - Survey Coversheet

Survey ID: **SID13309**  
Status: **OPEN**  
Survey **BE**  
Title: **WIPES\_FLOORS\_7035A\_7035B\_4.23.2020**  
Survey Date: **23-APR-2020**  
Location: **7035A FIRST**  
IH-Safety officer: **ORR,THOMAS (00029740)**  
Primary Sampler: **CUETO,ERIK (00694595)**

### Request Description

#### Description of and Purpose for Sampling:

Determine if beryllium contamination is present on the floors of these two buildings. Survey supports planning for CRSF-related demolition project. The buildings are currently occupied, but are scheduled to be vacated for demolition by the end of the year.

#### Description of Sample Equipment and Placement While Sampling:

Whatman 541 filters Lot#: 170019430.

Sample Rationale: **FACILITY CHARACTERIZATION**

### Analytical Method

Sampling Matrix/Device: WHATMAN 541 FILTER

Sampling Method: METALS\_SURFACE/IOP O1-12.5

#### Description of Analysis Requested (for lab personnel)

BERYLLIUM

### Other

Characterization Status: **CHARACTERIZATION COMPLETE, NO EXCEEDENCES**

Characterization Category: **FLOOR**

## Survey Discussion

### Discussion of Results, Expectations and History

The results of all eleven samples were less than the laboratory reporting limit (0.050 ug) and well under the DOE Release Criteria limit (0.2 ug/100 cm<sup>2</sup>) making the data set extremely censored. The attached nonparametric method for decision-making from severely-censored data sets (Hewitt) concluded that there is 99% confidence the 95th percentile is less than the Release Criteria limit. Beryllium controls are not required for access into these two buildings.

### Survey Conclusions and Comments

Both buildings were constructed in 1977. Floor surfaces in both buildings were combined into one survey area based on common use over time as paint storage and mixing areas. Visual Sample Plan (VSP) was used to design the survey and randomly select locations for the samples.

### Recommendations to Workers and Management

None.

## Blanks/Controls

Sample	Analyzed agent	Result	Unit	Comments
SID13309-12	BERYLLIUM AND COMPOUNDS, AS BE	<0.050	UG	
SID13309-13	BERYLLIUM AND COMPOUNDS, AS BE	<0.050	UG	

## Survey Attachments

<a href="#">View/Download</a>	Green Tag.pdf	Green Tag.pdf
<a href="#">View/Download</a>	IH Sample Request - 7035A and B_Be, Pb_Floor.pdf	IH Sample Request - 7035A and B_Be, Pb_Floor.pdf
<a href="#">View/Download</a>	SID13309_13310_Sample Diagram.pdf	SID13309_13310_Sample Diagram.pdf
<a href="#">View/Download</a>	Survey Design	Survey Design.pdf
<a href="#">View/Download</a>	Lab Report	<b>Description of Attachment</b> OrrSID13309.pdf
<a href="#">View/Download</a>	NP Method for Decisionmaking	NP_method_for_SevereCensoring - SID13309.pdf

Tracking



Sample Date (or start) **23-APR-2020**

Dates Results Received from Lab: **06-MAY-2020**

Date Survey Report Sent: **07-MAY-2020**

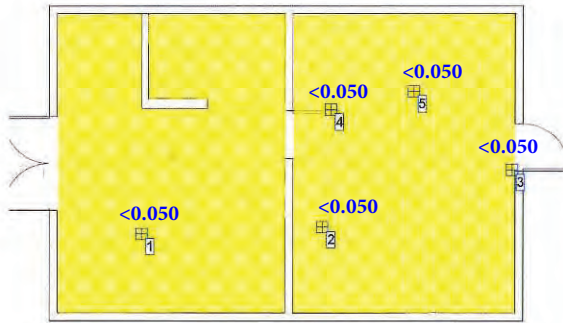
**Sample results list**

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
SID13309-01	23-APR-2020	WIPE SAMPLING	FLOOR		7035A FIRST	BERYLLIUM AND COMPOUNDS, AS BE	<0.050	UG/100CM2	0.2
SID13309-02	23-APR-2020	WIPE SAMPLING	FLOOR		7035A FIRST	BERYLLIUM AND COMPOUNDS, AS BE	<0.050	UG/100CM2	0.2
SID13309-03	23-APR-2020	WIPE SAMPLING	FLOOR		7035A FIRST	BERYLLIUM AND COMPOUNDS, AS BE	<0.050	UG/100CM2	0.2
SID13309-04	23-APR-2020	WIPE SAMPLING	FLOOR		7035A FIRST	BERYLLIUM AND COMPOUNDS, AS BE	<0.050	UG/100CM2	0.2
SID13309-05	23-APR-2020	WIPE SAMPLING	FLOOR		7035A FIRST	BERYLLIUM AND COMPOUNDS, AS BE	<0.050	UG/100CM2	0.2
SID13309-06	23-APR-2020	WIPE SAMPLING	FLOOR		7035B FIRST	BERYLLIUM AND COMPOUNDS, AS BE	<0.050	UG/100CM2	0.2
SID13309-07	23-APR-2020	WIPE SAMPLING	FLOOR		7035B FIRST	BERYLLIUM AND COMPOUNDS, AS BE	<0.050	UG/100CM2	0.2
SID13309-08	23-APR-2020	WIPE SAMPLING	FLOOR		7035B FIRST	BERYLLIUM AND COMPOUNDS, AS BE	<0.050	UG/100CM2	0.2
SID13309-09	23-APR-2020	WIPE SAMPLING	FLOOR		7035B FIRST	BERYLLIUM AND COMPOUNDS, AS BE	<0.050	UG/100CM2	0.2
SID13309-10	23-APR-2020	WIPE SAMPLING	FLOOR		7035B FIRST	BERYLLIUM AND COMPOUNDS, AS BE	<0.050	UG/100CM2	0.2
SID13309-11	23-APR-2020	WIPE SAMPLING	FLOOR		7035B FIRST	BERYLLIUM AND COMPOUNDS, AS BE	<0.050	UG/100CM2	0.2

Floor

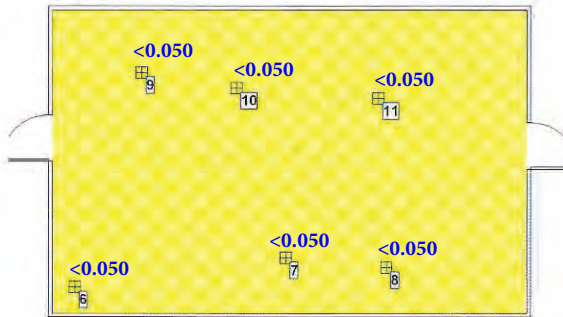
Collect 100 cm<sup>2</sup> wipe samples for Be and 1 ft<sup>2</sup> wipe samples for Pb from the nearest available floor surface at the locations indicated.

Be SID 13309  
Pb SID 13310



REV 1 ISSUED: 12/10

BUILDING 2035A FIRST FLOOR PLAN



REV 1 ISSUED: 12/10

BUILDING 2035B FIRST FLOOR PLAN



Your P.O. #: 4000159100  
Your Project #: 7035A FIRST

**Attention: Crystal Sugarman**

OAK RIDGE NATIONAL LABORATORY  
1 Bethel Valley Road  
Oak Ridge, TN  
USA 37831

**Report Date: 05/04/2020**  
Report #: R6163694  
Version: 1 - Final

**ANALYTICAL REPORT**

**BV LABS JOB #: COA4108**

**Received: 04/28/2020, 00:00**

Sample Matrix: Swab  
# Samples Received: 13

<b>Analyses</b>	<b>Quantity</b>	<b>Date Analyzed</b>	<b>Laboratory Method</b>	<b>Analytical Method</b>
Metals, Welding, by OSHA ID125 - Wipe (1)	13	04/30/2020	OSHA ID 125 - Prep and Analysis for ICP	OSHA ID 125G

This report shall not be reproduced except in full, without the written approval of the laboratory.  
Results relate only to the items tested.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

(1) Bureau Veritas Laboratories is accredited by the AIHA-LAP, LLC ELLAP program as laboratory number 100967. ELLAP meets the requirements of the National Lead Laboratory Accreditation Program (NLLAP), established under Title X of the Residential Lead-Based Paint Hazard Reduction Act of 1992 and includes paint, soil dust wipe analysis.

**Encryption Key**

Please direct all questions regarding this Analytical Report to your Project Manager.  
Michael Wantland, CS  
Email: Michael.Wantland@bvlabs.com  
Phone# (248) 344-1770

=====  
BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports.



BV Labs Job #: COA4108  
 Report Date: 05/04/2020

OAK RIDGE NATIONAL LABORATORY  
 Client Project #: 7035A FIRST  
 Your P.O. #: 4000159100

### ANALYTICAL RESULTS

Client ID: SID13309-01		Matrix: Swab			
BV Labs ID: MNH519		Sample Media: Whatman filter - 4"			
Date Sampled: 04/23/2020					
ANALYTE	Mass ug	Concentration ug/100cm2	RL ug	Test Method	Date Analyzed
Beryllium (Be)	<0.050	N/A	0.050	OSHA ID 125G	04/30/2020
RL = Reporting Limit					

Client ID: SID13309-02		Matrix: Swab			
BV Labs ID: MNH520		Sample Media: Whatman filter - 4"			
Date Sampled: 04/23/2020					
ANALYTE	Mass ug	Concentration ug/100cm2	RL ug	Test Method	Date Analyzed
Beryllium (Be)	<0.050	N/A	0.050	OSHA ID 125G	04/30/2020
RL = Reporting Limit					

Client ID: SID13309-03		Matrix: Swab			
BV Labs ID: MNH521		Sample Media: Whatman filter - 4"			
Date Sampled: 04/23/2020					
ANALYTE	Mass ug	Concentration ug/100cm2	RL ug	Test Method	Date Analyzed
Beryllium (Be)	<0.050	N/A	0.050	OSHA ID 125G	04/30/2020
RL = Reporting Limit					

Client ID: SID13309-04		Matrix: Swab			
BV Labs ID: MNH522		Sample Media: Whatman filter - 4"			
Date Sampled: 04/23/2020					
ANALYTE	Mass ug	Concentration ug/100cm2	RL ug	Test Method	Date Analyzed
Beryllium (Be)	<0.050	N/A	0.050	OSHA ID 125G	04/30/2020
RL = Reporting Limit					

Client ID: SID13309-05		Matrix: Swab			
BV Labs ID: MNH523		Sample Media: Whatman filter - 4"			
Date Sampled: 04/23/2020					
ANALYTE	Mass ug	Concentration ug/100cm2	RL ug	Test Method	Date Analyzed
Beryllium (Be)	<0.050	N/A	0.050	OSHA ID 125G	04/30/2020
RL = Reporting Limit					



BV Labs Job #: COA4108  
 Report Date: 05/04/2020

OAK RIDGE NATIONAL LABORATORY  
 Client Project #: 7035A FIRST  
 Your P.O. #: 4000159100

### ANALYTICAL RESULTS

Client ID: SID13309-06		Matrix: Swab			
BV Labs ID: MNH524		Sample Media: Whatman filter - 4"			
Date Sampled: 04/23/2020					
ANALYTE	Mass ug	Concentration ug/100cm2	RL ug	Test Method	Date Analyzed
Beryllium (Be)	<0.050	N/A	0.050	OSHA ID 125G	04/30/2020
RL = Reporting Limit					

Client ID: SID13309-07		Matrix: Swab			
BV Labs ID: MNH525		Sample Media: Whatman filter - 4"			
Date Sampled: 04/23/2020					
ANALYTE	Mass ug	Concentration ug/100cm2	RL ug	Test Method	Date Analyzed
Beryllium (Be)	<0.050	N/A	0.050	OSHA ID 125G	04/30/2020
RL = Reporting Limit					

Client ID: SID13309-08		Matrix: Swab			
BV Labs ID: MNH526		Sample Media: Whatman filter - 4"			
Date Sampled: 04/23/2020					
ANALYTE	Mass ug	Concentration ug/100cm2	RL ug	Test Method	Date Analyzed
Beryllium (Be)	<0.050	N/A	0.050	OSHA ID 125G	04/30/2020
RL = Reporting Limit					

Client ID: SID13309-09		Matrix: Swab			
BV Labs ID: MNH527		Sample Media: Whatman filter - 4"			
Date Sampled: 04/23/2020					
ANALYTE	Mass ug	Concentration ug/100cm2	RL ug	Test Method	Date Analyzed
Beryllium (Be)	<0.050	N/A	0.050	OSHA ID 125G	04/30/2020
RL = Reporting Limit					

Client ID: SID13309-10		Matrix: Swab			
BV Labs ID: MNH528		Sample Media: Whatman filter - 4"			
Date Sampled: 04/23/2020					
ANALYTE	Mass ug	Concentration ug/100cm2	RL ug	Test Method	Date Analyzed
Beryllium (Be)	<0.050	N/A	0.050	OSHA ID 125G	04/30/2020
RL = Reporting Limit					



BUREAU  
VERITAS

BV Labs Job #: COA4108  
Report Date: 05/04/2020

OAK RIDGE NATIONAL LABORATORY  
Client Project #: 7035A FIRST  
Your P.O. #: 4000159100

### ANALYTICAL RESULTS

Client ID: SID13309-11		Matrix: Swab			
BV Labs ID: MNH529		Sample Media: Whatman filter - 4"			
Date Sampled: 04/23/2020					
ANALYTE	Mass ug	Concentration ug/100cm2	RL ug	Test Method	Date Analyzed
Beryllium (Be)	<0.050	N/A	0.050	OSHA ID 125G	04/30/2020
RL = Reporting Limit					

Client ID: SID13309-12		Matrix: Swab			
BV Labs ID: MNH530		Sample Media: Whatman filter - 4"			
Date Sampled: 04/23/2020					
ANALYTE	Mass ug	Concentration ug/100cm2	RL ug	Test Method	Date Analyzed
Beryllium (Be)	<0.050	N/A	0.050	OSHA ID 125G	04/30/2020
RL = Reporting Limit					

Client ID: SID13309-13		Matrix: Swab			
BV Labs ID: MNH531		Sample Media: Whatman filter - 4"			
Date Sampled: 04/23/2020					
ANALYTE	Mass ug	Concentration ug/100cm2	RL ug	Test Method	Date Analyzed
Beryllium (Be)	<0.050	N/A	0.050	OSHA ID 125G	04/30/2020
RL = Reporting Limit					



BUREAU  
VERITAS

BV Labs Job #: COA4108

Report Date: 05/04/2020

OAK RIDGE NATIONAL LABORATORY

Client Project #: 7035A FIRST

Your P.O. #: 4000159100

### GENERAL COMMENTS

Unless otherwise noted below the following statements apply: 1) all samples were received in acceptable condition, 2) all quality control results associated with this sample set were within acceptable limits and /or do not adversely affect the reported results and 3) the industrial hygiene results have not been blank corrected.

The client provided their pertinent field sampling data on the analysis request paperwork submitted with the samples. Results apply to the sample as received.

**Results relate only to the items tested.**



# Request for Laboratory Analytical Services

**IMPORTANT:** Date results required: 5 days and 5/7/2020 4/27/20

Page: 1 of 1

Rush charges authorized? Yes  No   
 Fax or  E-mail results   
 E-mail Address: hoffmannrcr@ornl.gov

For Lab Use Only  
 Lab Project No.

COA 4108

## Bureau Veritas North America, Inc.

<b>Report results to:</b>	<b>Client Project Number:</b> <u>7035A FIRST</u>	<b>Send invoice to:</b>	<b>P.O. No.</b> <u>4000159100</u>
Name <u>Crystal Sugarman</u>		Name _____	
Company <u>ORNL</u>		Company <u>ORNL</u>	
Mailing Address <u>1 Bethel Valley Rd</u>		Address _____	
City, State, Zip <u>Oak Ridge TN, 37831</u>		City, State, Zip _____	
Telephone No. <u>865-574-9765</u> Fax No. _____		Telephone No. _____	

Special instructions and/or specific regulatory requirements:  
 (method, limit of detection, etc.)

**Soil samples only: Which state are these from?** \_\_\_\_\_

Water samples are:

Drinking water \_\_\_\_\_ Groundwater \_\_\_\_\_  
 Wastewater \_\_\_\_\_

Client Sample Identification	Date Sampled	Time Sampled	Matrix/Media	Air Volume (Liters)	# of Jars	ANALYSIS REQUESTED (List each analyte on the lines below, multiple analytes per line)
SID13309-01	4/23/2020		Whatman 541			Beryllium by ICP, OSHA 125G
SID13309-02	4/23/2020		Whatman 541			Beryllium by ICP, OSHA 125G
SID13309-03	4/23/2020		Whatman 541			Beryllium by ICP, OSHA 125G
SID13309-04	4/23/2020		Whatman 541			Beryllium by ICP, OSHA 125G
SID13309-05	4/23/2020		Whatman 541			Beryllium by ICP, OSHA 125G
SID13309-06	4/23/2020		Whatman 541			Beryllium by ICP, OSHA 125G
SID13309-07	4/23/2020		Whatman 541			Beryllium by ICP, OSHA 125G
SID13309-08	4/23/2020		Whatman 541			Beryllium by ICP, OSHA 125G
SID13309-09	4/23/2020		Whatman 541			Beryllium by ICP, OSHA 125G
SID13309-10	4/23/2020		Whatman 541			Beryllium by ICP, OSHA 125G
SID13309-11	4/23/2020		Whatman 541			Beryllium by ICP, OSHA 125G
SID13309-12	4/23/2020		Whatman 541			Beryllium by ICP, OSHA 125G
SID13309-13	4/23/2020		Whatman 541			Beryllium by ICP, OSHA 125G

<b>Relinquished by:</b> _____	<b>Date/Time</b> _____	<b>Received by:</b> _____	<b>Date/Time</b> _____
<b>Relinquished by:</b> <u>[Signature]</u>	<b>Date/Time</b> <u>4-27-20 11:19am</u>	<b>Received by:</b> <u>[Signature]</u>	<b>Date/Time</b> <u>4-28-20 12:54/p</u>
<b>Method of Shipment:</b> _____		<b>Sample Condition on Receipt:</b> _____	
<b>Authorized by:</b> _____		Acceptable <input checked="" type="checkbox"/> Other: _____	
	(Signature MUST accompany request!)	(Explain)	

<b>Ship to:</b>	<b>Detroit Lab</b> 22345 Roethel Drive Novi, MI 48375 248.344.2652 800.806.5887 Fax: 248.344.2655	<b>Atlanta Lab</b> 3380 Chastain Meadows Pkwy., Ste 300 Kennesaw, GA 30144 770.499.7500 800.252.9919 Fax: 770.499.7511	<b>Chicago Lab</b> 95 Oakwood Road Lake Zurich, IL 60047 888.576.7522 847.726.3320 Fax: 847.726.3323	<b>Canadian Clients</b> 1415 Janette Ave Windsor, ON N8X 1Z1  <b>Visit our Website:</b> <a href="http://www.us.bureauveritas.com/hse">www.us.bureauveritas.com/hse</a>
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## Survey Profile Report - Survey Coversheet

Survey ID: **SID13348**  
Status: **OPEN**  
Survey Title: **BE WIPES\_ABOVE-CEILING\_7035C\_05/07/2020**  
Survey Date: **07-MAY-2020**  
Location: **7035C FIRST**  
IH-Safety officer: **ORR,THOMAS (00029740)**  
Primary Sampler: **MASSARO,REBEKKAH (03077143)**

### Request Description

#### Description of and Purpose for Sampling:

Determine if beryllium contamination is present on elevated surfaces above the suspended ceiling. Survey supports planning for CRSF-related demolition.

#### Description of Sample Equipment and Placement While Sampling:

See attached map  
Lot number 17019430 and 17001296

#### Description of Sampling Method:

Wipe method

Sample Rationale: **FACILITY CHARACTERIZATION**

### Analytical Method

Sampling Matrix/Device: WHATMAN 541 FILTER  
Sampling Method: METALS\_SURFACE/IOP O1-12.5  
Description of Analysis Requested (for lab personnel)

Beryllium

Other

Characterization Status: **CHARACTERIZATION COMPLETE, NO EXCEEDENCES**

Characterization Category: **ABV CEILING/SUSPEND**

### Survey Discussion

#### Discussion of Results, Expectations and History

The results of all eleven samples were less than the laboratory reporting limit (0.025 ug) and well under the DOE Release Criteria limit (0.2 ug/100 cm<sup>2</sup>) making the data set extremely censored. The attached nonparametric method for decision-making from severely-censored data sets (Hewitt) concluded that there is 99% confidence the 95th percentile is less than the Release Criteria limit. Beryllium controls are not required for access and work above the suspended ceiling in this building.

#### Survey Conclusions and Comments

Visual Sample Plan (VSP) was used to design the survey and randomly select locations for the samples. 100 cm<sup>2</sup> wipe samples were collected from available upward-facing surfaces at or near the selected locations above the suspended ceiling.

#### Recommendations to Workers and Management

None.

### Blanks/Controls

Sample	Analyzed agent	Result	Unit	Comments
SID13348-12	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG	Beryllium
SID13348-13	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG	Beryllium

### Survey Attachments

	Description of Attachment	
<a href="#">View/Download</a>	IH Sample Request - 7035C_Be Pb_Above Ceiling.pdf	IH Sample Request - 7035C_Be Pb_Above Ceiling.pdf
<a href="#">View/Download</a>	Lab Report	OrrSID13348.pdf
<a href="#">View/Download</a>	Survey Design	7035C_Be_Survey Design.pdf
<a href="#">View/Download</a>	Decision making method for severely censored data	NP method for Severe Censoring.pdf
<a href="#">View/Download</a>	Survey Report	Survey Report - SID13348.pdf
<a href="#">View/Download</a>	7035C Map.pdf	7035C Map.pdf

## Tracking

Sample Date (or start) **07-MAY-2020**Sent to Lab **07-MAY-2020**Dates Results Received from Lab: **15-MAY-2020****Sample results list**

<b>Sample ID</b>	<b>Date</b>	<b>Assessment</b>	<b>Result Type</b>	<b>AU ID</b>	<b>Location</b>	<b>Agent</b>	<b>Result</b>	<b>Unit</b>	<b>OEL</b>
SID13348-01	07-MAY-2020	WIPE SAMPLING	ABOVE CEILING		7035C	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID13348-02	07-MAY-2020	WIPE SAMPLING	ABOVE CEILING		7035C	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID13348-03	07-MAY-2020	WIPE SAMPLING	ABOVE CEILING		7035C	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID13348-04	07-MAY-2020	WIPE SAMPLING	ABOVE CEILING		7035C	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID13348-05	07-MAY-2020	WIPE SAMPLING	ABOVE CEILING		7035C	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID13348-06	07-MAY-2020	WIPE SAMPLING	ABOVE CEILING		7035C	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID13348-07	07-MAY-2020	WIPE SAMPLING	ABOVE CEILING		7035C	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID13348-08	07-MAY-2020	WIPE SAMPLING	ABOVE CEILING		7035C	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID13348-09	07-MAY-2020	WIPE SAMPLING	ABOVE CEILING		7035C	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID13348-10	07-MAY-2020	WIPE SAMPLING	ABOVE CEILING		7035C	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID13348-11	07-MAY-2020	WIPE SAMPLING	ABOVE CEILING		7035C	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2

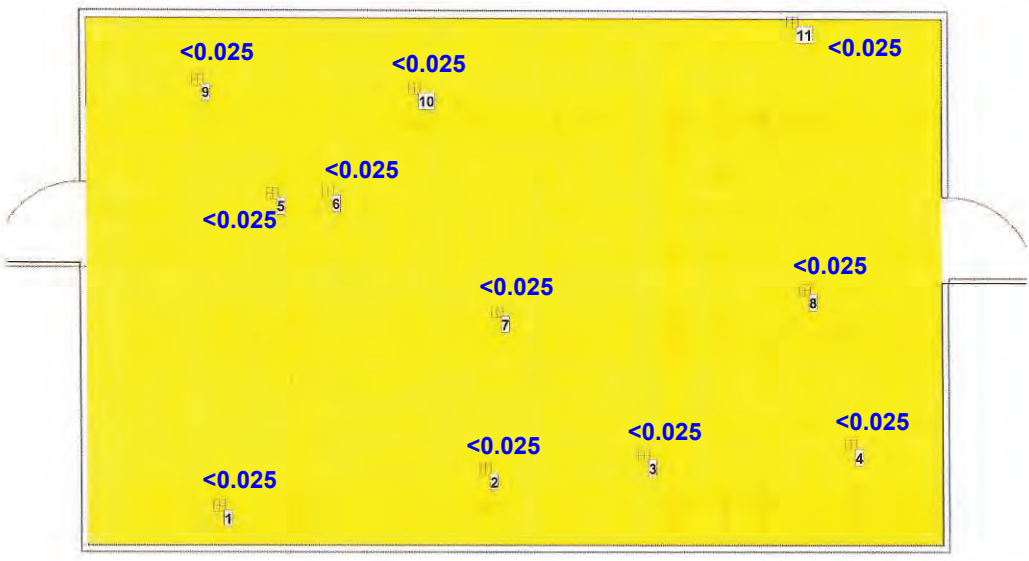
Collect 100 cm<sup>2</sup> wipe samples for Be and 1 ft<sup>2</sup> wipe samples for Pb from the nearest available upward-facing surface above the suspended ceiling at the locations indicated. Follow requirements in the attached BEPP.

SID13348

Be SID

Pb SID

*[Handwritten signatures]*



REV 1 ISSUED: 12/10

BUILDING 7035C FIRST FLOOR PLAN

Be Pb Be Pb

- |                        |                  |     |                  |                  |
|------------------------|------------------|-----|------------------|------------------|
| #01 - conduit          | conduit          | #07 | metal suspension | metal suspension |
| #02 - metal strut      | metal strut      | #08 | METAL SUSPENSION | metal susp.      |
| #03 - metal suspension | metal suspension | #09 | top of light     | top of light     |
| #04 - top of light     | top of light     | #10 | conduit          | conduit          |
| #05 - conduit          | conduit          | #11 | TOP OF LIGHT     | TOP OF LIGHT     |
| #06 - metal suspension | metal suspension |     |                  |                  |



# Analytical Report

Safety Services Division  
Industrial Hygiene  
Analytical Laboratory

Orr, Tom

Batch: 8625

Location: 7035C FIRST

Received Date: 5/7/2020

Analysis Date: 5/13/2020

Report Date: 5/15/2020

Sample ID	Analyte	Result	Units	Comments
SID13348-01	Beryllium, Whatman 541	<0.025	ug	
SID13348-02	Beryllium, Whatman 541	<0.025	ug	
SID13348-03	Beryllium, Whatman 541	<0.025	ug	
SID13348-04	Beryllium, Whatman 541	<0.025	ug	
SID13348-05	Beryllium, Whatman 541	<0.025	ug	
SID13348-06	Beryllium, Whatman 541	<0.025	ug	
SID13348-07	Beryllium, Whatman 541	<0.025	ug	
SID13348-08	Beryllium, Whatman 541	<0.025	ug	
SID13348-09	Beryllium, Whatman 541	<0.025	ug	
SID13348-10	Beryllium, Whatman 541	<0.025	ug	
SID13348-11	Beryllium, Whatman 541	<0.025	ug	
SID13348-12	Beryllium, Whatman 541	<0.025	ug	
SID13348-13	Beryllium, Whatman 541	<0.025	ug	

### Reporting Level

Beryllium, Whatman 541 0.025 ug

Laboratory: IHAL

Method: IOP 01-26.17

Note: Samples were received in good condition unless otherwise noted. Results are not blank corrected unless otherwise noted. Results relate only to the items tested.

Approved By:

*Crystal R. Hoffmann*

Date: 5/15/20

Crystal R. Hoffmann

Industrial Hygiene Laboratory Manager

Page 1 of 1

5/15/2020 8:26:28 AM

## Survey Profile Report - Survey Coversheet

Survey ID: **SID13349**  
Status: **OPEN**  
Survey Title: **BE\_WIPES\_FLOOR\_7035C\_05/07/2020**  
Survey Date: **07-MAY-2020**  
Location: **7035C FIRST**  
IH-Safety officer: **ORR,THOMAS (00029740)**  
Primary Sampler: **LINER,MIRANDA (03084423)**

### Request Description

#### Description of and Purpose for Sampling:

Determine if beryllium contamination is present on the floor.  
Survey supports planning for CRSF-related demolition project.

#### Description of Sample Equipment and Placement While Sampling:

See attached map for sample locations.  
Whatman Lot#: 17001296

Sample Rationale: **FACILITY CHARACTERIZATION**

### Analytical Method

Sampling Matrix/Device: WHATMAN 541 FILTER  
Sampling Method: METALS\_SURFACE/IOP O1-12.5

#### Description of Analysis Requested (for lab personnel)

Beryllium

### Workplace Conditions

#### Workplace and Operation Description (overview of the area or process)

Building categorized as a storage area. However, at the time of sampling it was used as office space.

Workplace Conditions

Office-Hallway

Other

Characterization Status: **CHARACTERIZATION COMPLETE, NO EXCEEDENCES**

Characterization Category: **FLOOR**

### Survey Discussion

Discussion of Results, Expectations and History

The results of all eleven samples were less than the laboratory reporting limit (0.025 ug) and well under the DOE Release Criteria limit (0.2 ug/100 cm<sup>2</sup>) making the data set extremely censored. The attached nonparametric method for decision-making from severely-censored data sets (Hewitt) concluded that there is 99% confidence the 95th percentile is less than the Release Criteria limit. Beryllium controls are not required to access this building.

Survey Conclusions and Comments

Visual Sample Plan (VSP) was used to design the survey and randomly select locations for the samples. 100 cm<sup>2</sup> wipe samples were collected from available floor surface at or near the selected locations.

Recommendations to Workers and Management

None

### Blanks/Controls

Sample	Analyzed agent	Result	Unit	Comments
SID13349-12	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG	Beryllium
SID13349-13	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG	Beryllium

### Survey Attachments

	Description of Attachment	
<a href="#">View/Download</a>	Lab Report	OrrSID13349.pdf
<a href="#">View/Download</a>	Survey Design	7035C_Be_Survey Design.pdf
<a href="#">View/Download</a>	Decision making method from severely censored data set	NP method for Severe Censoring.pdf
<a href="#">View/Download</a>	SID13349 Sample Request Form w/ Sample Locations	SID13349 Sample Request Form.pdf

## Tracking

Sample Date (or start) **07-MAY-2020**Sent to Lab **07-MAY-2020**Dates Results Received from Lab: **15-MAY-2020****Sample results list**

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
SID13349-01	07-MAY-2020	WIPE SAMPLING	FLOOR		7035C	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID13349-02	07-MAY-2020	WIPE SAMPLING	FLOOR		7035C	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID13349-03	07-MAY-2020	WIPE SAMPLING	FLOOR		7035C	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID13349-04	07-MAY-2020	WIPE SAMPLING	FLOOR		7035C	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID13349-05	07-MAY-2020	WIPE SAMPLING	FLOOR		7035C	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID13349-06	07-MAY-2020	WIPE SAMPLING	FLOOR		7035C	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID13349-07	07-MAY-2020	WIPE SAMPLING	FLOOR		7035C	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID13349-08	07-MAY-2020	WIPE SAMPLING	FLOOR		7035C	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID13349-09	07-MAY-2020	WIPE SAMPLING	FLOOR		7035C	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID13349-10	07-MAY-2020	WIPE SAMPLING	FLOOR		7035C	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID13349-11		WIPE SAMPLING	FLOOR		7035C		<0.025	UG/100CM2	0.2

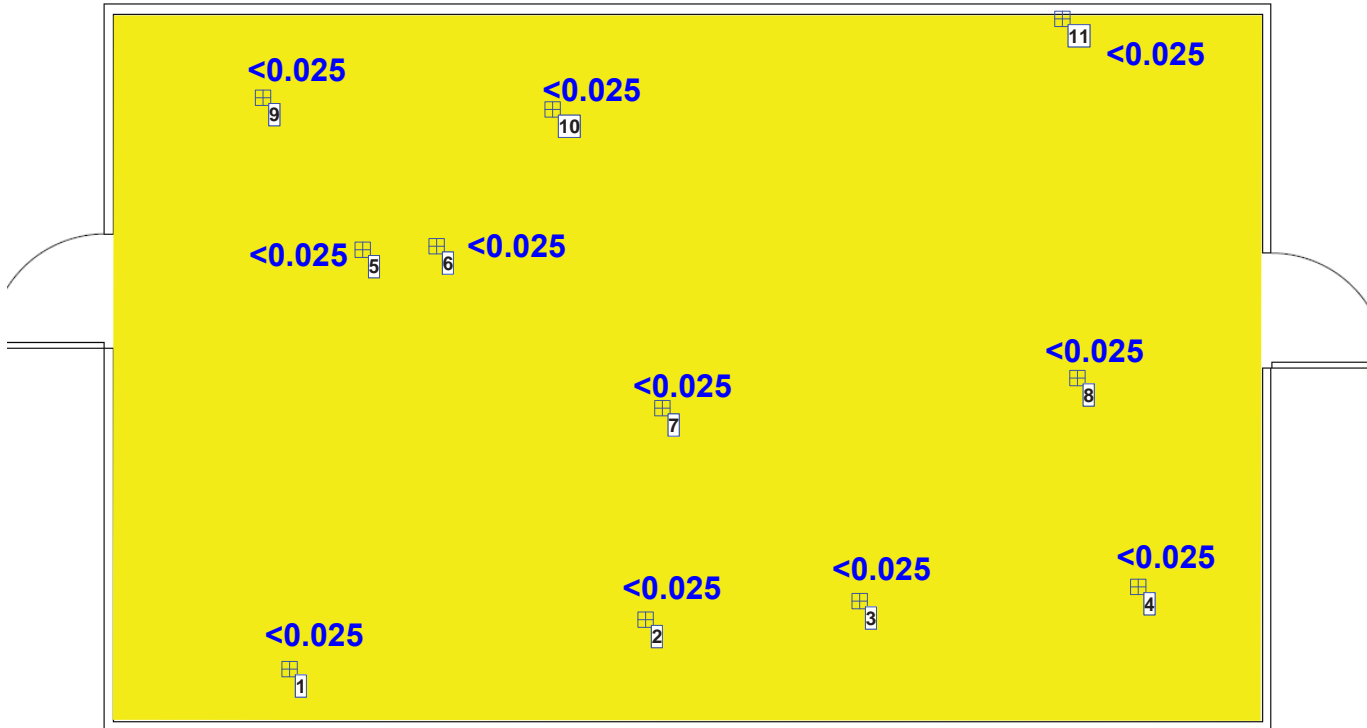


Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
	07- MAY- 2020					BERYLLIUM AND COMPOUNDS, AS BE			

Collect 100 cm<sup>2</sup> wipe samples for Be from the nearest available floor surface at the locations indicated.

Be SID 13349

Pb SID \_\_\_\_\_



REV 1 ISSUED: 12/10

BUILDING 7035C FIRST FLOOR PLAN



# Analytical Report

Safety Services Division  
Industrial Hygiene  
Analytical Laboratory

Orr, Tom

Batch: 8624

Location: 7035C FIRST

Received Date: 5/7/2020

Analysis Date: 5/13/2020

Report Date: 5/15/2020

Sample ID	Analyte	Result	Units	Comments
SID13349-01	Beryllium, Whatman 541	<0.025	ug	
SID13349-02	Beryllium, Whatman 541	<0.025	ug	
SID13349-03	Beryllium, Whatman 541	<0.025	ug	
SID13349-04	Beryllium, Whatman 541	<0.025	ug	
SID13349-05	Beryllium, Whatman 541	<0.025	ug	
SID13349-06	Beryllium, Whatman 541	<0.025	ug	
SID13349-07	Beryllium, Whatman 541	<0.025	ug	
SID13349-08	Beryllium, Whatman 541	<0.025	ug	
SID13349-09	Beryllium, Whatman 541	<0.025	ug	
SID13349-10	Beryllium, Whatman 541	<0.025	ug	
SID13349-11	Beryllium, Whatman 541	<0.025	ug	
SID13349-12	Beryllium, Whatman 541	<0.025	ug	
SID13349-13	Beryllium, Whatman 541	<0.025	ug	

### Reporting Level

Beryllium, Whatman 541 0.025 ug

Laboratory: IHAL

Method: IOP 01-26.17

Note: Samples were received in good condition unless otherwise noted. Results are not blank corrected unless otherwise noted. Results relate only to the items tested.

Approved By: Crystal R Hoffmann

Date: 5/15/20

Crystal R. Hoffmann

Industrial Hygiene Laboratory Manager

Page 1 of 1

5/15/2020 8:27:14 AM

## Survey Profile Report - Survey Coversheet

Survey ID: **SID13380**  
Status: **OPEN**  
Survey Title: **BE\_WIPES\_ABOVE  
CEILING\_7035E\_05/12/2020**  
Survey Date: **12-MAY-2020**  
Location: **7035E**  
IH-Safety officer: **ORR,THOMAS (00029740)**  
Primary Sampler: **LINER,MIRANDA (03084423)**

### Request Description

#### Description of and Purpose for Sampling:

Determine if beryllium contamination is present on elevated surfaces above suspended ceiling. Survey supports planning for CRSF-related demolition project. The building has been vacated and is not currently in use.

#### Description of Sample Equipment and Placement While Sampling:

See attached map for sample locations.

Whatman Lot#: 17001296

Sample Rationale: **FACILITY CHARACTERIZATION**

### Analytical Method

Sampling Matrix/Device: WHATMAN 541 FILTER

Sampling Method: METALS\_SURFACE/IOP O1-12.5

#### Description of Analysis Requested (for lab personnel)

Beryllium

### Other

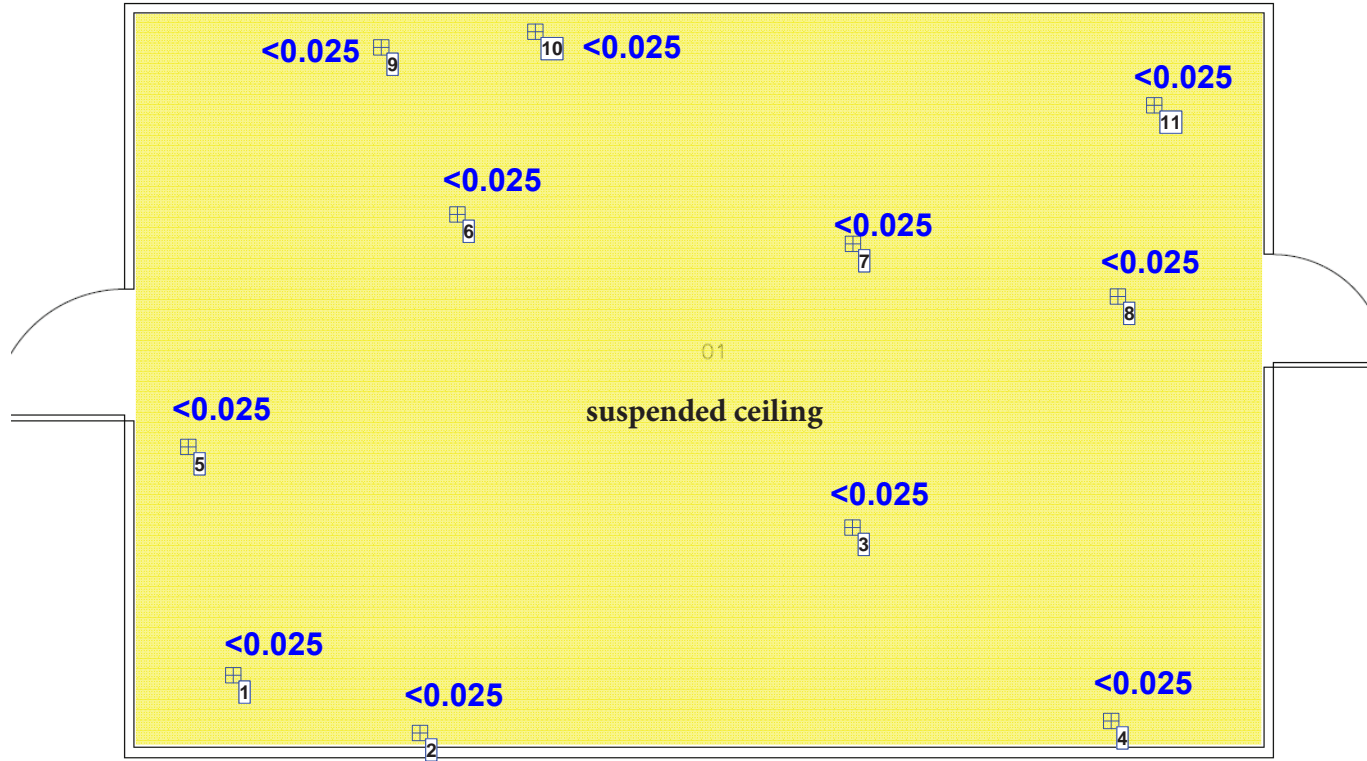
Characterization Status: **CHARACTERIZATION COMPLETE, NO EXCEEDENCES**

Characterization Category: **ABV CEILING/SUSPEND**



Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
SID13380-01	12-MAY-2020	WIPE SAMPLING	ABOVE CEILING		7035E	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID13380-02	12-MAY-2020	WIPE SAMPLING	ABOVE CEILING		7035E	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID13380-03	12-MAY-2020	WIPE SAMPLING	ABOVE CEILING		7035E	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID13380-04	12-MAY-2020	WIPE SAMPLING	ABOVE CEILING		7035E	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID13380-05	12-MAY-2020	WIPE SAMPLING	ABOVE CEILING		7035E	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID13380-06	12-MAY-2020	WIPE SAMPLING	ABOVE CEILING		7035E	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID13380-07	12-MAY-2020	WIPE SAMPLING	ABOVE CEILING		7035E	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID13380-08	12-MAY-2020	WIPE SAMPLING	ABOVE CEILING		7035E	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID13380-09	12-MAY-2020	WIPE SAMPLING	ABOVE CEILING		7035E	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID13380-10	12-MAY-2020	WIPE SAMPLING	ABOVE CEILING		7035E	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID13380-11	12-MAY-2020	WIPE SAMPLING	ABOVE CEILING		7035E	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2

Collect 100 cm<sup>2</sup> wipe samples for Be from the nearest available upward-facing surface above the suspended ceiling at the locations indicated. Follow requirements in the attached BEPP.



REV 1 ISSUED: 12/1

BUILDING 7035E FIRST FLOOR PLAN



# Analytical Report

Safety Services Division  
Industrial Hygiene  
Analytical Laboratory

Orr, Tom

Batch: 8642

Location: 7035E

Received Date: 5/13/2020

Analysis Date: 5/20/2020

Report Date: 5/22/2020

Sample ID	Analyte	Result	Units	Comments
SID13380-01	Beryllium, Whatman 541	<0.025	ug	
SID13380-02	Beryllium, Whatman 541	<0.025	ug	
SID13380-03	Beryllium, Whatman 541	<0.025	ug	
SID13380-04	Beryllium, Whatman 541	<0.025	ug	
SID13380-05	Beryllium, Whatman 541	<0.025	ug	
SID13380-06	Beryllium, Whatman 541	<0.025	ug	
SID13380-07	Beryllium, Whatman 541	<0.025	ug	
SID13380-08	Beryllium, Whatman 541	<0.025	ug	
SID13380-09	Beryllium, Whatman 541	<0.025	ug	
SID13380-10	Beryllium, Whatman 541	<0.025	ug	
SID13380-11	Beryllium, Whatman 541	<0.025	ug	
SID13380-12	Beryllium, Whatman 541	<0.025	ug	

### Reporting Level

Beryllium, Whatman 541 0.025 ug

Laboratory: IHAL

Method: IOP 01-26.17

Note: Samples were received in good condition unless otherwise noted. Results are not blank corrected unless otherwise noted. Results relate only to the items tested.

Approved By: Crystal R. Hoffmann

Date: 5/22/20

Crystal R. Hoffmann  
Industrial Hygiene Laboratory Manager



## Survey Profile Report - Survey Coversheet

Survey ID: **SID13383**  
Status: **OPEN**  
Survey **BE**  
Title: **WIPES\_FLOOR\_7035E\_05/12/2020**  
Survey Date: **12-MAY-2020**  
Location: **7035E FIRST**  
IH-Safety officer: **ORR,THOMAS (00029740)**  
Primary Sampler: **MASSARO,REBEKKAH (03077143)**

### Request Description

#### Description of and Purpose for Sampling:

Determine if beryllium contamination is present on the floor. Survey supports planning for CRSF-related Demolition Project. The building has been vacated and is not currently in use.

#### Description of Sample Equipment and Placement While Sampling:

See attached map  
Lot # 17001296

#### Description of Sampling Method:

Wipe

Sample Rationale: **FACILITY CHARACTERIZATION**

### Analytical Method

Sampling Matrix/Device: WHATMAN 541 FILTER

Sampling Method: METALS\_SURFACE/IOP O1-12.5

#### Description of Analysis Requested (for lab personnel)

Beryllium

Other

Characterization Status: **CHARACTERIZATION COMPLETE, NO EXCEEDENCES**

Characterization Category: **FLOOR**

### Survey Discussion

#### Discussion of Results, Expectations and History

The results of all eleven samples were well under the DOE Release Criteria limit (0.2 ug/100 cm<sup>2</sup>) and less than the laboratory reporting limit (0.025 ug) making the data set extremely censored. The attached nonparametric method for decision-making from severely-censored data sets (Hewitt) concluded that there is greater than 99% confidence the 95th percentile is less than the Release Criteria limit. Beryllium controls are not required to access this building.

#### Survey Conclusions and Comments

Visual Sample Plan (VSP) was used to design the survey and randomly select locations for the samples. 100 cm<sup>2</sup> wipe samples were collected from available floor surface at or near the selected locations.

#### Recommendations to Workers and Management

None.

### Blanks/Controls

Sample	Analyzed agent	Result	Unit	Comments
SID13383-12	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG	Beryllium

### Survey Attachments

	Description of Attachment	
<a href="#">View/Download</a>	Lab Report	OrrSID13383.pdf
<a href="#">View/Download</a>	NP Decision-making Method for Severely-Censored Data Sets	NP_method_for_SevereCensoring - SID13383.pdf
<a href="#">View/Download</a>	7035E Map.pdf	7035E Map.pdf
<a href="#">View/Download</a>	7035E request form.pdf	7035E request form.pdf

### Tracking

Sample Date (or start) **12-MAY-2020**

Sent to Lab **13-MAY-2020**

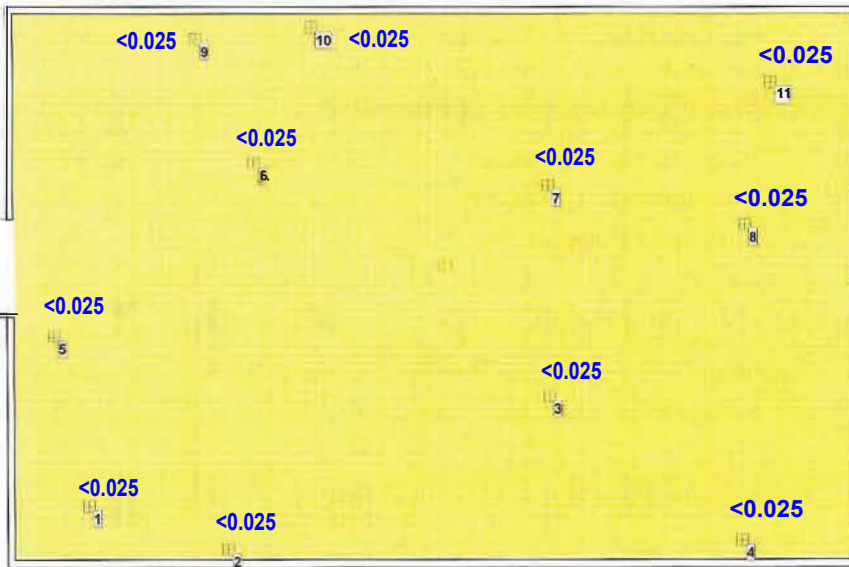
Dates Results Received from Lab: **22-MAY-2020**

**Sample results list**

<b>Sample ID</b>	<b>Date</b>	<b>Assessment</b>	<b>Result Type</b>	<b>AU ID</b>	<b>Location</b>	<b>Agent</b>	<b>Result</b>	<b>Unit</b>	<b>OEL</b>
SID13383-01	12-MAY-2020	WIPE SAMPLING	FLOOR		7035E FIRST	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID13383-02	12-MAY-2020	WIPE SAMPLING	FLOOR		7035E FIRST	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID13383-03	12-MAY-2020	WIPE SAMPLING	FLOOR		7035E FIRST	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID13383-04	12-MAY-2020	WIPE SAMPLING	FLOOR		7035E FIRST	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID13383-05	12-MAY-2020	WIPE SAMPLING	FLOOR		7035E FIRST	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID13383-06	12-MAY-2020	WIPE SAMPLING	FLOOR		7035E FIRST	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID13383-07	12-MAY-2020	WIPE SAMPLING	FLOOR		7035E FIRST	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID13383-08	12-MAY-2020	WIPE SAMPLING	FLOOR		7035E FIRST	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID13383-09	12-MAY-2020	WIPE SAMPLING	FLOOR		7035E FIRST	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID13383-10	12-MAY-2020	WIPE SAMPLING	FLOOR		7035E FIRST	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID13383-11	12-MAY-2020	WIPE SAMPLING	FLOOR		7035E FIRST	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2

Collect 100 cm<sup>2</sup> wipe samples for Be and 1 ft<sup>2</sup> wipe samples for Pb from the nearest available floor surface at the locations indicated.

Be SID 13383  
Pb SID 13384



REV 1 ISSUED: 12/1

BUILDING 7035E FIRST FLOOR PLAN



# Analytical Report

Safety Services Division  
Industrial Hygiene  
Analytical Laboratory

Orr, Tom

Batch: 8636

Location: 7035E FIRST

Received Date: 5/13/2020

Analysis Date: 5/20/2020

Report Date: 5/22/2020

Sample ID	Analyte	Result	Units	Comments
SID13383-01	Beryllium, Whatman 541	<0.025	ug	
SID13383-02	Beryllium, Whatman 541	<0.025	ug	
SID13383-03	Beryllium, Whatman 541	<0.025	ug	
SID13383-04	Beryllium, Whatman 541	<0.025	ug	
SID13383-05	Beryllium, Whatman 541	<0.025	ug	
SID13383-06	Beryllium, Whatman 541	<0.025	ug	
SID13383-07	Beryllium, Whatman 541	<0.025	ug	
SID13383-08	Beryllium, Whatman 541	<0.025	ug	
SID13383-09	Beryllium, Whatman 541	<0.025	ug	
SID13383-10	Beryllium, Whatman 541	<0.025	ug	
SID13383-11	Beryllium, Whatman 541	<0.025	ug	
SID13383-12	Beryllium, Whatman 541	<0.025	ug	

### Reporting Level

Beryllium, Whatman 541 0.025 ug

Laboratory: IHAL

Method: IOP 01-26.17

Note: Samples were received in good condition unless otherwise noted. Results are not blank corrected unless otherwise noted. Results relate only to the items tested.

Approved By: Crystal R. Hoffmann

Date: 5/22/20

Crystal R. Hoffmann  
Industrial Hygiene Laboratory Manager

## Survey Profile Report - Survey Coversheet

Survey ID: **SID13375**  
Status: **OPEN**  
Survey Title: **BE\_WIPES\_SUSPENDED SURFACES\_7035F\_05/12/2020**  
Survey Date: **12-MAY-2020**  
Location: **7035F**  
IH-Safety officer: **ORR,THOMAS (00029740)**  
Primary Sampler: **LINER,MIRANDA (03084423)**

### Request Description

#### Description of and Purpose for Sampling:

Determine if beryllium contamination is present on elevated surfaces above floor level. Survey supports planning for CRSF-related demolition project.

#### Description of Sample Equipment and Placement While Sampling:

See attached map for sample locations.  
Whatman Lot#: 17001296

Sample Rationale: **FACILITY CHARACTERIZATION**



### Analytical Method

Sampling Matrix/Device: WHATMAN 541 FILTER

Sampling Method: METALS\_SURFACE/IOP O1-12.5

Description of Analysis Requested (for lab personnel)

Beryllium

### Other

Characterization Status: **CHARACTERIZATION COMPLETE, NO EXCEEDENCES**

Characterization Category: **ABV CEILING/SUSPEND**

## Survey Discussion

### Discussion of Results, Expectations and History

The results of all seven samples were well under the DOE Release Criteria Limit. Five of the seven results were below the laboratory reporting limit (0.025 ug). Collection of additional samples is not indicated. Beryllium controls are not required to access and work at elevation above 7 ft. in this building.

### Survey Conclusions and Comments

Due to the extremely limited availability of upward-facing surfaces >7 ft above floor level, a number of purposive sample locations were selected to be representative of the available surfaces. 100 cm<sup>2</sup> wipe samples were collected as near to the selected locations as possible. The results will be compared to the DOE Release Criteria Limit (0.2 ug/100 cm<sup>2</sup>).

### Recommendations to Workers and Management

None.

## Blanks/Controls

Sample	Analyzed agent	Result	Unit	Comments
SID13375-08	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG	Beryllium

## Survey Attachments

	Description of Attachment	
<a href="#">View/Download</a>	Lab Report	OrrSID13375.pdf
<a href="#">View/Download</a>	SID13375 Sample Request Form w/ Sample Locations	SID13375 Sample Request Form and Sample Locations.pdf
<a href="#">View/Download</a>	SID13375 Revised Sample Locations	SID13375 Revised Sample Locations.pdf

## Tracking

Sample Date (or start) **12-MAY-2020**

Sent to Lab **13-MAY-2020**

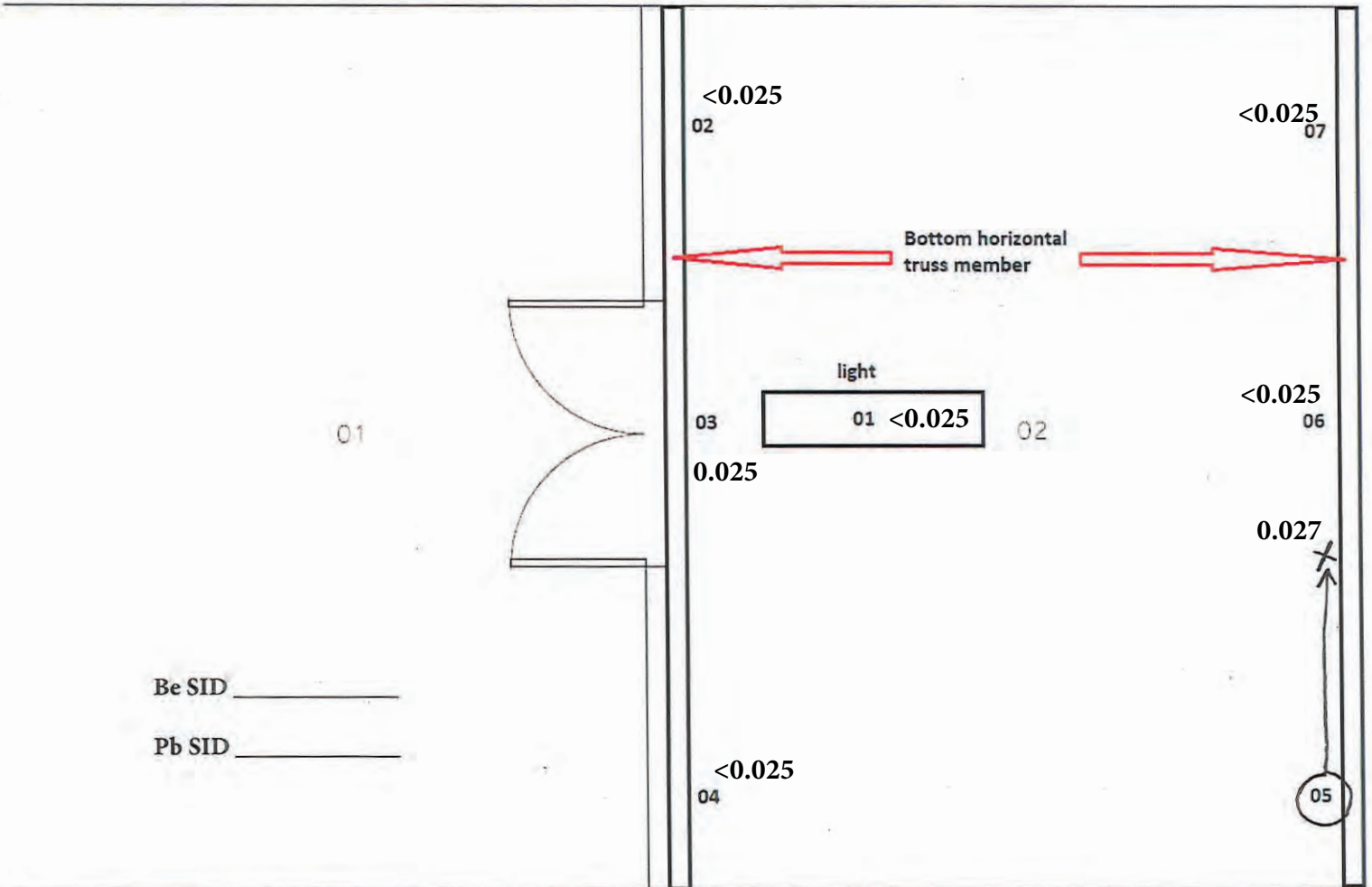
Dates Results Received from Lab: **22-MAY-2020**

## Sample results list

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
					7035F		<0.025	UG/100CM2	0.2

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
SID13375-01	12-MAY-2020	WIPE SAMPLING	SUSPENDED SURFACE>8'			BERYLLIUM AND COMPOUNDS, AS BE			
SID13375-02	12-MAY-2020	WIPE SAMPLING	SUSPENDED SURFACE>8'		7035F	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID13375-03	12-MAY-2020	WIPE SAMPLING	SUSPENDED SURFACE>8'		7035F	BERYLLIUM AND COMPOUNDS, AS BE	0.025	UG/100CM2	0.2
SID13375-04	12-MAY-2020	WIPE SAMPLING	SUSPENDED SURFACE>8'		7035F	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID13375-05	12-MAY-2020	WIPE SAMPLING	SUSPENDED SURFACE>8'		7035F	BERYLLIUM AND COMPOUNDS, AS BE	0.027	UG/100CM2	0.2
SID13375-06	12-MAY-2020	WIPE SAMPLING	SUSPENDED SURFACE>8'		7035F	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID13375-07	12-MAY-2020	WIPE SAMPLING	SUSPENDED SURFACE>8'		7035F	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2





Collect 100 cm<sup>2</sup> wipe samples for Be and 1 ft<sup>2</sup> wipe samples for Pb from the upward-facing surface locations indicated.

REV 1 ISSUED:

BUILDING 7035F FIRST FLOOR PLAN



# Analytical Report

Safety Services Division  
Industrial Hygiene  
Analytical Laboratory

Orr, Tom

Batch: 8635

Location: 7035F

Received Date: 5/13/2020

Analysis Date: 5/20/2020

Report Date: 5/22/2020

Sample ID	Analyte	Result	Units	Comments
SID13375-01	Beryllium, Whatman 541	<0.025	ug	
SID13375-02	Beryllium, Whatman 541	<0.025	ug	
SID13375-03	Beryllium, Whatman 541	0.025	ug	
SID13375-04	Beryllium, Whatman 541	<0.025	ug	
SID13375-05	Beryllium, Whatman 541	0.027	ug	
SID13375-06	Beryllium, Whatman 541	<0.025	ug	
SID13375-07	Beryllium, Whatman 541	<0.025	ug	
SID13375-08	Beryllium, Whatman 541	<0.025	ug	

### Reporting Level

Beryllium, Whatman 541 0.025 ug

Laboratory: IHAL

Method: IOP 01-26.17

Note: Samples were received in good condition unless otherwise noted. Results are not blank corrected unless otherwise noted. Results relate only to the items tested.

Approved By: Crystal R. Hoffmann

Date: 5/22/20

Crystal R. Hoffmann  
Industrial Hygiene Laboratory Manager

## Survey Profile Report - Survey Coversheet

Survey ID: **SID13379**  
Status: **OPEN**  
Survey **BE**  
Title: **WIPES\_FLOOR\_7035F\_05/12/2020**  
Survey Date: **12-MAY-2020**  
Location: **7035F FIRST**  
IH-Safety officer: **ORR,THOMAS (00029740)**  
Primary Sampler: **MASSARO,REBEKKAH (03077143)**

### Request Description

#### Description of and Purpose for Sampling:

Determine if beryllium contamination is present on floor. Survey supports planning for CRSF-related Demolition Project.

#### Description of Sample Equipment and Placement While Sampling:

See attached map

#### Description of Sampling Method:

Wipe

Sample Rationale: **FACILITY CHARACTERIZATION**

### Analytical Method

Sampling Matrix/Device: WHATMAN 541 FILTER

Sampling Method: METALS\_SURFACE/IOP O1-12.5

#### Description of Analysis Requested (for lab personnel)

Beryllium

### Other

Characterization Status: **CHARACTERIZATION COMPLETE, NO EXCEEDENCES**

Characterization Category: **FLOOR**

<b>Survey Discussion</b>	<b>Description of Attachment</b>
Discussion of Results, Expectations and History	
<p>The results of all eleven samples were well under the DOE Release Criteria limit (0.2 ug/100 cm<sup>2</sup>). Eight of the eleven results were below the laboratory reporting limit (0.025 ug) making the data set highly censored. ExpoStats was used to adjust the below reporting limit results for entry into VSP. All results were then entered into VSP. VSP's analysis determined that the survey area is not contaminated with beryllium. Collection of additional samples is not needed. Beryllium controls are not required for access into this building.</p>	
Survey Conclusions and Comments	
<p>Visual Sample Plan (VSP) was used to randomly select locations on the floor at which to sample. VSP was also used to analyze the resulting sample data to determine if the floor is contaminated with beryllium. 100 cm<sup>2</sup> wipe samples were collected at or as near as possible to the locations selected by VSP.</p>	
Recommendations to Workers and Management	
<p>None.</p>	

<b>Blanks/Controls</b>				
<b>Sample</b>	<b>Analyzed agent</b>	<b>Result</b>	<b>Unit</b>	<b>Comments</b>
SID13379-12	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG	Beryllium

<b>Survey Attachments</b>		
<a href="#">View/Download</a>	Lab Report	OrrSID13379.pdf
<a href="#">View/Download</a>	VSP Report	7035F_Floor_Be Survey Design and Results Analysis.pdf
<a href="#">View/Download</a>	7035F Map.pdf	7035F Map.pdf
<a href="#">View/Download</a>	7035F Request Form.pdf	7035F Request Form.pdf

Tracking
Sample Date (or start) <b>12-MAY-2020</b>
Sent to Lab <b>13-MAY-2020</b>

Dates Results Received from Lab: **22-MAY-2020**

**Sample results list**

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
SID13379-01	12-MAY-2020	WIPE SAMPLING	FLOOR		7035F FIRST	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID13379-02	12-MAY-2020	WIPE SAMPLING	FLOOR		7035F FIRST	BERYLLIUM AND COMPOUNDS, AS BE	0.069	UG/100CM2	0.2
SID13379-03	12-MAY-2020	WIPE SAMPLING	FLOOR		7035F FIRST	BERYLLIUM AND COMPOUNDS, AS BE	0.056	UG/100CM2	0.2
SID13379-04	12-MAY-2020	WIPE SAMPLING	FLOOR		7035F FIRST	BERYLLIUM AND COMPOUNDS, AS BE	0.035	UG/100CM2	0.2
SID13379-05	12-MAY-2020	WIPE SAMPLING	FLOOR		7035F FIRST	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID13379-06	12-MAY-2020	WIPE SAMPLING	FLOOR		7035F FIRST	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID13379-07	12-MAY-2020	WIPE SAMPLING	FLOOR		7035F FIRST	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID13379-08	12-MAY-2020	WIPE SAMPLING	FLOOR		7035F FIRST	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID13379-09	12-MAY-2020	WIPE SAMPLING	FLOOR		7035F FIRST	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID13379-10	12-MAY-2020	WIPE SAMPLING	FLOOR		7035F FIRST	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID13379-11	12-MAY-2020	WIPE SAMPLING	FLOOR		7035F FIRST	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2

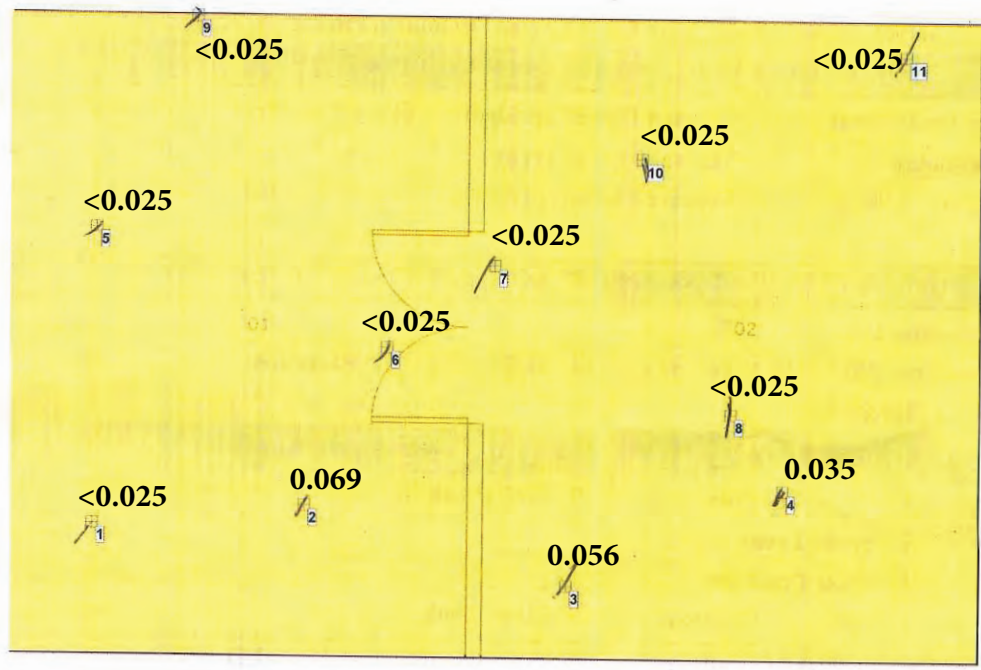
SAMPLE DETAIL

Sample ID: SID13379-01 Survey ID: SID13379

Collect 100 cm<sup>2</sup> wipe samples for Be and 1 ft<sup>2</sup> wipe samples for Pb from the nearest available floor surface at the locations indicated.

Be SID 13379

Pb SID 13381



REV 1 ISSUED:

BUILDING 7035F FIRST FLOOR PLAN



# Analytical Report

Safety Services Division  
Industrial Hygiene  
Analytical Laboratory

Orr, Tom

Batch: 8637

Location: 7035F FIRST

Received Date: 5/13/2020

Analysis Date: 5/20/2020

Report Date: 5/22/2020

Sample ID	Analyte	Result	Units	Comments
SID13379-01	Beryllium, Whatman 541	<0.025	ug	
SID13379-02	Beryllium, Whatman 541	0.069	ug	
SID13379-03	Beryllium, Whatman 541	0.056	ug	
SID13379-04	Beryllium, Whatman 541	0.035	ug	
SID13379-05	Beryllium, Whatman 541	<0.025	ug	
SID13379-06	Beryllium, Whatman 541	<0.025	ug	
SID13379-07	Beryllium, Whatman 541	<0.025	ug	
SID13379-08	Beryllium, Whatman 541	<0.025	ug	
SID13379-09	Beryllium, Whatman 541	<0.025	ug	
SID13379-10	Beryllium, Whatman 541	<0.025	ug	
SID13379-11	Beryllium, Whatman 541	<0.025	ug	
SID13379-12	Beryllium, Whatman 541	<0.025	ug	

### Reporting Level

Beryllium, Whatman 541 0.025 ug

Laboratory: IHAL

Method: IOP 01-26.17

Note: Samples were received in good condition unless otherwise noted. Results are not blank corrected unless otherwise noted. Results relate only to the items tested.

Approved By: Crystal R. Hoffmann

Date: 5/22/20

Crystal R. Hoffmann  
Industrial Hygiene Laboratory Manager

## Survey Profile Report - Survey Coversheet

Survey ID: **SID14067**  
Status: **OPEN**  
Survey Title: **BE\_WIPE\_FLOOR\_BUILDING**  
7070\_NOV182020  
Survey Date: **19-NOV-2020**  
Location: **7077**  
IH-Safety officer: **SMITH,DUANE (00965363)**  
Primary Sampler: **MASSARO,REBEKKAH (03077143)**

## Request Description

## Description of and Purpose for Sampling:

Determine if Beryllium contamination is present on floor of 7077  
LOT# 17099428

## Description of Sample Equipment and Placement While Sampling:

See attached map  
Sample #12 moved to room 002

## Description of Sampling Method:

Wipe

Sample Rationale: **FACILITY CHARACTERIZATION**

## Analytical Method

Sampling Matrix/Device: WHATMAN 541 FILTER  
Sampling Method: METALS\_SURFACE/IOP O1-12.5

## Description of Analysis Requested (for lab personnel)

Beryllium

## Other

Characterization Status: **CHARACTERIZATION COMPLETE, NO EXCEEDENCES**

Characterization Category: **FLOOR**



**Survey Discussion**

## Discussion of Results, Expectations and History

The results of all 18 samples were below the DOE Release Criteria limit (0.2 ug/100 cm<sup>2</sup>). Analysis of the sample data by the Visual Sample Plan (VSP) tool resulted in a decision that the survey area as a whole is not contaminated with beryllium. Beryllium controls are not required for access to the area.

## Survey Conclusions and Comments

Visual Sample Plan (VSP) was used to design the above ceiling survey and randomly select locations for the samples. VSP was used to evaluate the resulting sample data and make inferences as to whether the area is clean or dirty. 100 cm<sup>2</sup> wipe samples were collected from floor surfaces at the locations randomly selected by VSP and submitted for beryllium analysis.

## Recommendations to Workers and Management

NONE

**Blanks/Controls**

Sample	Analyzed agent	Result	Unit	Comments
SID14067-19	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG	
SID14067-20	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG	

## Tracking

Sample Date (or start) **19-NOV-2020**

Sent to Lab **20-NOV-2020**

**Sample results list**

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
<a href="#">SID14067-01</a>	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01A	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
<a href="#">SID14067-02</a>	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01B	BERYLLIUM AND COMPOUNDS, AS BE	0.038	UG/100CM2	0.2
<a href="#">SID14067-03</a>	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01C	BERYLLIUM AND COMPOUNDS, AS BE	0.12	UG/100CM2	0.2

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
SID14067-04	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01E	BERYLLIUM AND COMPOUNDS, AS BE	0.036	UG/100CM2	0.2
SID14067-05	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01E	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14067-06	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 03	BERYLLIUM AND COMPOUNDS, AS BE	0.029	UG/100CM2	0.2
SID14067-07	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01A	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14067-08	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01B	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14067-09	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01C	BERYLLIUM AND COMPOUNDS, AS BE	0.095	UG/100CM2	0.2
SID14067-10	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01D	BERYLLIUM AND COMPOUNDS, AS BE	0.070	UG/100CM2	0.2
SID14067-11	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01E	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14067-12	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 02	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14067-13	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01A	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14067-14	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01B	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14067-15	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01C	BERYLLIUM AND COMPOUNDS, AS BE	0.069	UG/100CM2	0.2
SID14067-16	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01E	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14067-17	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01E	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
SID14067-18	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 02	BERYLLIUM AND COMPOUNDS, AS BE	0.047	UG/100CM2	0.2



# Analytical Report

Safety Services Division  
Industrial Hygiene  
Analytical Laboratory

Smith, Duane

Batch: 9133

Location: 7077

Received Date: 11/20/2020

Analysis Date: 12/1/2020

Report Date: 12/4/2020

Sample ID	Analyte	Result	Units	Comments
SID14067-01	Beryllium, Whatman 541	<0.025	ug	
SID14067-02	Beryllium, Whatman 541	0.038	ug	
SID14067-03	Beryllium, Whatman 541	0.12	ug	
SID14067-04	Beryllium, Whatman 541	0.036	ug	
SID14067-05	Beryllium, Whatman 541	<0.025	ug	
SID14067-06	Beryllium, Whatman 541	0.029	ug	
SID14067-07	Beryllium, Whatman 541	<0.025	ug	
SID14067-08	Beryllium, Whatman 541	<0.025	ug	
SID14067-09	Beryllium, Whatman 541	0.095	ug	
SID14067-10	Beryllium, Whatman 541	0.070	ug	
SID14067-11	Beryllium, Whatman 541	<0.025	ug	
SID14067-12	Beryllium, Whatman 541	<0.025	ug	
SID14067-13	Beryllium, Whatman 541	<0.025	ug	
SID14067-14	Beryllium, Whatman 541	<0.025	ug	
SID14067-15	Beryllium, Whatman 541	0.069	ug	
SID14067-16	Beryllium, Whatman 541	<0.025	ug	
SID14067-17	Beryllium, Whatman 541	<0.025	ug	
SID14067-18	Beryllium, Whatman 541	0.047	ug	
SID14067-19	Beryllium, Whatman 541	<0.025	ug	
SID14067-20	Beryllium, Whatman 541	<0.025	ug	

### Reporting Level

Beryllium, Whatman 541 0.025 ug

Laboratory: IHAL

Method: IOP 01-26.17

Note: Samples were received in good condition unless otherwise noted. Results are not blank corrected unless otherwise noted. Results relate only to the items tested.

Approved By: Crystal R Hoffmann

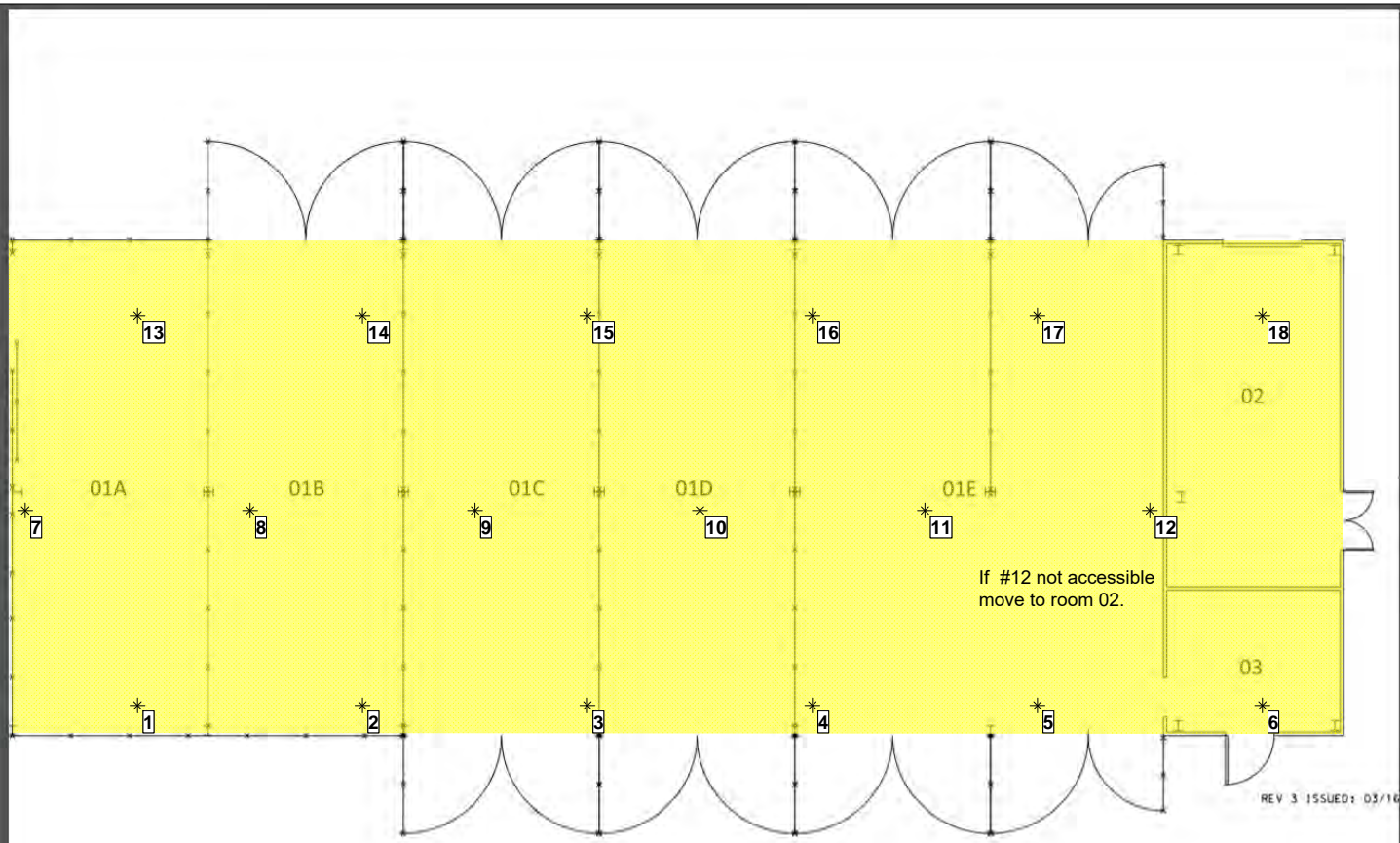
Date: 12/4/20

Crystal R. Hoffmann  
Industrial Hygiene Laboratory Manager

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12/4/2020 7:12:01 AM

7033 Collect 100 cm<sup>2</sup> wipe samples for Be and 1 ft<sup>2</sup> wipe samples for Pb from the nearest available floor surface at the locations indicated.



**BUILDING 7070 FIRST FLOOR PLAN**

## Sample Survey Profile Report

### Survey Profile Report - Survey Coversheet

Survey ID: **SID14332**  
Status: **OPEN**  
Survey Title: **BE WIPES\_EQUIPMENT\_7070\_2/26/2021**  
Survey Date: **26-FEB-2021**  
Location: **7070**  
IH-Safety officer: **SMITH,DUANE (00965363)**  
Primary Sampler: **MORRIS,JEFFERY (00035404)**

### Request Description

#### Description of and Purpose for Sampling:

Determine if beryllium contamination is present on equipment remaining at 7070. Data will be used for characterizing equipment before scraping. All samples are composite samples.

Sample Rationale: **SCREENING**

Work Document Project Code: **3XD87SCH**

### Analytical Method

Sampling Matrix/Device: WHATMAN 541 FILTER

Sampling Method: METALS\_SURFACE/IOP O1-12.5

#### Description of Analysis Requested (for lab personnel)

Beryllium

### Other

Characterization Status: **CHARACTERIZATION COMPLETE, NO EXCEEDENCES**

Characterization Category: **EQUIPMENT/ITEMS**

### Survey Discussion

#### Discussion of Results, Expectations and History

The results of all 31 samples well below the DOE Release Criteria limit (0.2 ug/100cm<sup>2</sup>) and 17 of the samples were less than the reporting limit of the laboratory (0.025 ug). Collection of additional samples is not indicated. Beryllium controls are not required for removal of equipment at 7070.

#### Survey Conclusions and Comments

Wipe samples were collect from the upward facing surfaces of racks, cabinets and various pieces of equipment inside and outside. Composite samples were collected to allow for screening more items. All samples reported as 100 cm2.

#### Recommendations to Workers and Management

NONE

#### Blanks/Controls

Sample	Analyzed agent	Result	Unit	Comments
SID14332-32	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG	
SID14332-33	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG	
SID14332-34	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG	

#### Tracking

Sample Date (or start) **26-FEB-2021**

Sent to Lab **26-FEB-2021**

#### Sample results list

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
<a href="#">SID14332-01</a>	26-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7070	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
<a href="#">SID14332-02</a>	26-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7070	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
<a href="#">SID14332-03</a>	26-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7070	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
<a href="#">SID14332-04</a>	26-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7070	BERYLLIUM AND COMPOUNDS, AS BE	0.04	UG/100CM2	0.2
<a href="#">SID14332-05</a>	26-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7070	BERYLLIUM AND COMPOUNDS, AS BE	0.041	UG/100CM2	0.2
<a href="#">SID14332-06</a>	26-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7070	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
<a href="#">SID14332-07</a>	26-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7070	BERYLLIUM AND COMPOUNDS, AS BE	0.035	UG/100CM2	0.2

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
SID14332-08	26-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7070	BERYLLIUM AND COMPOUNDS, AS BE	0.042	UG/100CM2	0.2
SID14332-09	26-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7070	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14332-10	26-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7070	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14332-11	26-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7070	BERYLLIUM AND COMPOUNDS, AS BE	0.075	UG/100CM2	0.2
SID14332-12	26-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7070	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14332-13	26-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7070	BERYLLIUM AND COMPOUNDS, AS BE	0.033	UG/100CM2	0.2
SID14332-14	26-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7070	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14332-15	26-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7070	BERYLLIUM AND COMPOUNDS, AS BE	0.047	UG/100CM2	0.2
SID14332-16	26-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7070	BERYLLIUM AND COMPOUNDS, AS BE	0.031	UG/100CM2	0.2
SID14332-17	26-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7070	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14332-18	26-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7070	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14332-19	26-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7070	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14332-20	26-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7070	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14332-21	26-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7070	BERYLLIUM AND COMPOUNDS, AS BE	0.036	UG/100CM2	0.2
SID14332-22	26-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7070	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14332-23	26-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7070	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14332-24	26-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7070	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14332-25	26-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7070	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2
SID14332-26	26-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7070	BERYLLIUM AND COMPOUNDS, AS BE	0.037	UG/100CM2	0.2
SID14332-27	26-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7070	BERYLLIUM AND COMPOUNDS, AS BE	0.04	UG/100CM2	0.2



<b>Sample ID</b>	<b>Date</b>	<b>Assessment</b>	<b>Result Type</b>	<b>AU ID</b>	<b>Location</b>	<b>Agent</b>	<b>Result</b>	<b>Unit</b>	<b>OEL</b>
<a href="#">SID14332-28</a>	26-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7070	BERYLLIUM AND COMPOUNDS, AS BE	0.064	UG/100CM2	0.2
<a href="#">SID14332-29</a>	26-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7070	BERYLLIUM AND COMPOUNDS, AS BE	0.091	UG/100CM2	0.2
<a href="#">SID14332-30</a>	26-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7070	BERYLLIUM AND COMPOUNDS, AS BE	0.038	UG/100CM2	0.2
<a href="#">SID14332-31</a>	26-FEB-2021	WIPE SAMPLING	EQUIPMENT / ITEMS		7070	BERYLLIUM AND COMPOUNDS, AS BE	<0.025	UG/100CM2	0.2



## Analytical Report

Safety Services Division  
Industrial Hygiene  
Analytical Laboratory

Smith, Duane

Batch: 9330

Location: 7070

Received Date: 2/26/2021

Analysis Date: 3/3/2021

Report Date: 3/4/2021

Sample ID	Analyte	Result	Units	Comments
SID14332-01	Beryllium, Whatman 541	<0.025	ug	
SID14332-02	Beryllium, Whatman 541	<0.025	ug	
SID14332-03	Beryllium, Whatman 541	<0.025	ug	
SID14332-04	Beryllium, Whatman 541	0.040	ug	
SID14332-05	Beryllium, Whatman 541	0.041	ug	
SID14332-06	Beryllium, Whatman 541	<0.025	ug	
SID14332-07	Beryllium, Whatman 541	0.035	ug	
SID14332-08	Beryllium, Whatman 541	0.042	ug	
SID14332-09	Beryllium, Whatman 541	<0.025	ug	
SID14332-10	Beryllium, Whatman 541	<0.025	ug	
SID14332-11	Beryllium, Whatman 541	0.075	ug	
SID14332-12	Beryllium, Whatman 541	<0.025	ug	
SID14332-13	Beryllium, Whatman 541	0.033	ug	
SID14332-14	Beryllium, Whatman 541	<0.025	ug	
SID14332-15	Beryllium, Whatman 541	0.047	ug	
SID14332-16	Beryllium, Whatman 541	0.031	ug	
SID14332-17	Beryllium, Whatman 541	<0.025	ug	
SID14332-18	Beryllium, Whatman 541	<0.025	ug	
SID14332-19	Beryllium, Whatman 541	<0.025	ug	
SID14332-20	Beryllium, Whatman 541	<0.025	ug	
SID14332-21	Beryllium, Whatman 541	0.036	ug	
SID14332-22	Beryllium, Whatman 541	<0.025	ug	
SID14332-23	Beryllium, Whatman 541	<0.025	ug	
SID14332-24	Beryllium, Whatman 541	<0.025	ug	
SID14332-25	Beryllium, Whatman 541	<0.025	ug	

# Analytical Report

Sample ID	Analyte	Result	Units	Comments
SID14332-26	Beryllium, Whatman 541	0.037	ug	
SID14332-27	Beryllium, Whatman 541	0.040	ug	
SID14332-28	Beryllium, Whatman 541	0.064	ug	
SID14332-29	Beryllium, Whatman 541	0.091	ug	
SID14332-30	Beryllium, Whatman 541	0.038	ug	
SID14332-31	Beryllium, Whatman 541	<0.025	ug	
SID14332-32	Beryllium, Whatman 541	<0.025	ug	
SID14332-33	Beryllium, Whatman 541	<0.025	ug	
SID14332-34	Beryllium, Whatman 541	<0.025	ug	

**Reporting Level**

Beryllium, Whatman 541 0.025 ug

**Laboratory:** IHAL**Method:** IOP 01-26.17

Note: Samples were received in good condition unless otherwise noted. Results are not blank corrected unless otherwise noted. Results relate only to the items tested.

Approved By: \_\_\_\_\_

**Authorized IHAL Representative**

Date: \_\_\_\_\_

3/4/21

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**SURVEY PHOTO REPORT FOR BUILDING 7070  
DEMOLITION PROJECT  
SID 14332**

**Date: 2/26/2021**

**IH Technician: Jeff Morris**



	<b>Sample #</b>	<b>SID14332-01</b>
	<b>Sample Location / Orientation</b>	Electrical equipment

**SURVEY PHOTO REPORT FOR BUILDING 7070  
DEMOLITION PROJECT  
SID 14332**

**Date: 2/26/2021**

**IH Technician: Jeff Morris**



	<b>Sample #</b>	<b>SID14332-02</b>
	<b>Sample Location / Orientation</b>	Orange Ladder

**SURVEY PHOTO REPORT FOR BUILDING 7070  
DEMOLITION PROJECT  
SID 14332**

**Date: 2/26/2021**

**IH Technician: Jeff Morris**



	<b>Sample #</b>	<b>SID14332-03</b>
	<b>Sample Location / Orientation</b>	Reel Caddy For Wire Spools

**SURVEY PHOTO REPORT FOR BUILDING 7070  
DEMOLITION PROJECT  
SID 14332**

**Date: 2/26/2021**

**IH Technician: Jeff Morris**



	<b>Sample #</b>	<b>SID14332-04</b>
	<b>Sample Location / Orientation</b>	Equipment (Yellow Fan)

**SURVEY PHOTO REPORT FOR BUILDING 7070  
DEMOLITION PROJECT  
SID 14332**

**Date: 2/26/2021**

**IH Technician: Jeff Morris**



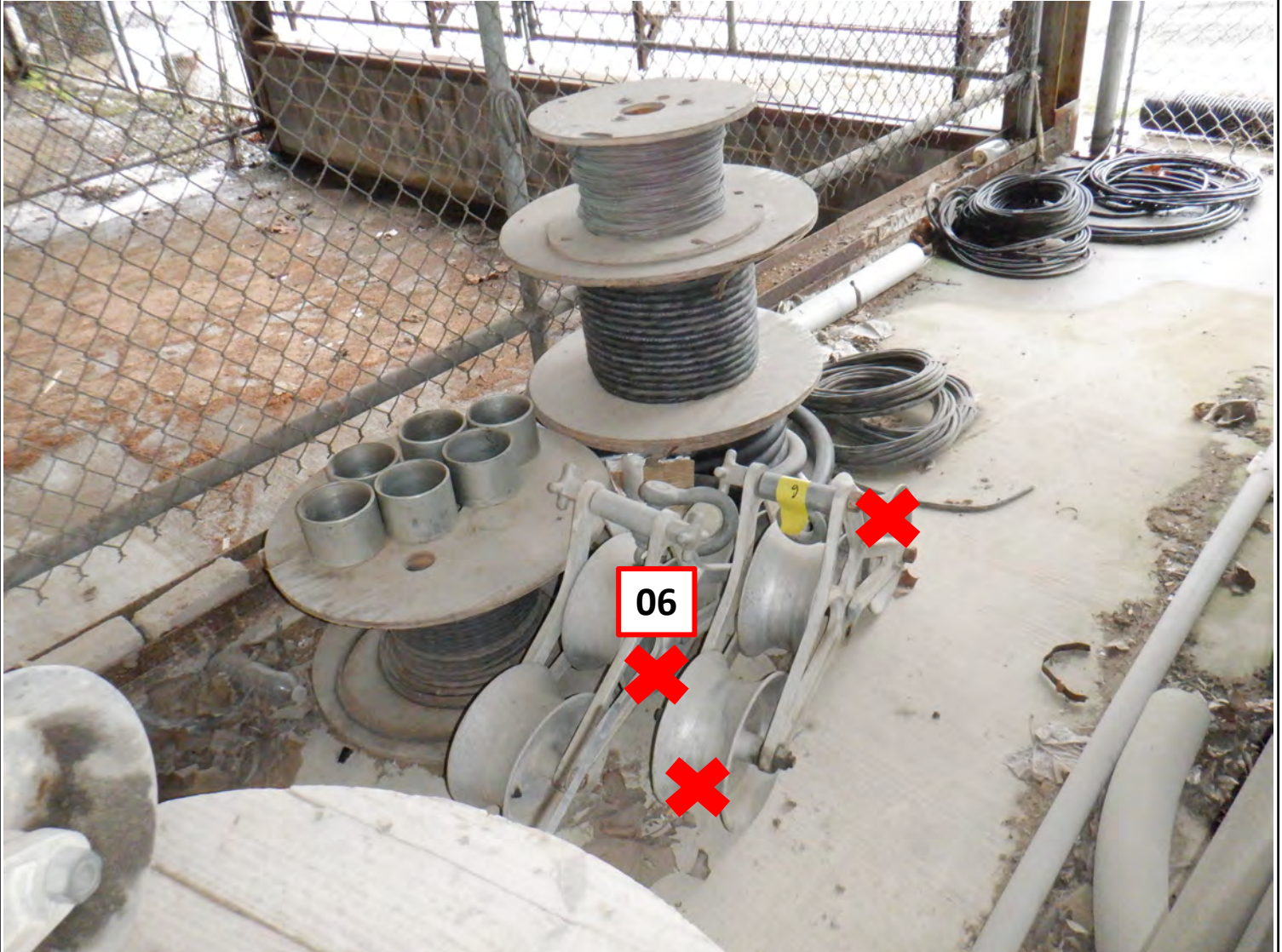
	<b>Sample #</b>	<b>SID14332-05</b>
	<b>Sample Location / Orientation</b>	Storage Rack



**SURVEY PHOTO REPORT FOR BUILDING 7070  
DEMOLITION PROJECT  
SID 14332**

**Date: 2/26/2021**

**IH Technician: Jeff Morris**



	<b>Sample #</b>	SID14332-06
	<b>Sample Location / Orientation</b>	Various Metal Electrical Parts

**SURVEY PHOTO REPORT FOR BUILDING 7070  
DEMOLITION PROJECT  
SID 14332**

**Date: 2/26/2021**

**IH Technician: Jeff Morris**



	<b>Sample #</b>	<b>SID14332-07</b>
	<b>Sample Location / Orientation</b>	Wooden Ladder

**SURVEY PHOTO REPORT FOR BUILDING 7070  
DEMOLITION PROJECT  
SID 14332**

**Date: 2/26/2021**

**IH Technician: Jeff Morris**



	<b>Sample #</b>	<b>SID14332-08</b>
	<b>Sample Location / Orientation</b>	Flammable Storage Cabinet, Interior Shelves

**SURVEY PHOTO REPORT FOR BUILDING 7070  
DEMOLITION PROJECT  
SID 14332**

**Date: 2/26/2021**

**IH Technician: Jeff Morris**



	<b>Sample #</b>	<b>SID14332-09</b>
	<b>Sample Location / Orientation</b>	Mobile Metal Cart, Top and Bottom

**SURVEY PHOTO REPORT FOR BUILDING 7070  
DEMOLITION PROJECT  
SID 14332**

**Date: 2/26/2021**

**IH Technician: Jeff Morris**



	<b>Sample #</b>	<b>SID14332-10</b>
	<b>Sample Location / Orientation</b>	Power Equipment

**SURVEY PHOTO REPORT FOR BUILDING 7070  
DEMOLITION PROJECT  
SID 14332**

**Date: 2/26/2021**

**IH Technician: Jeff Morris**

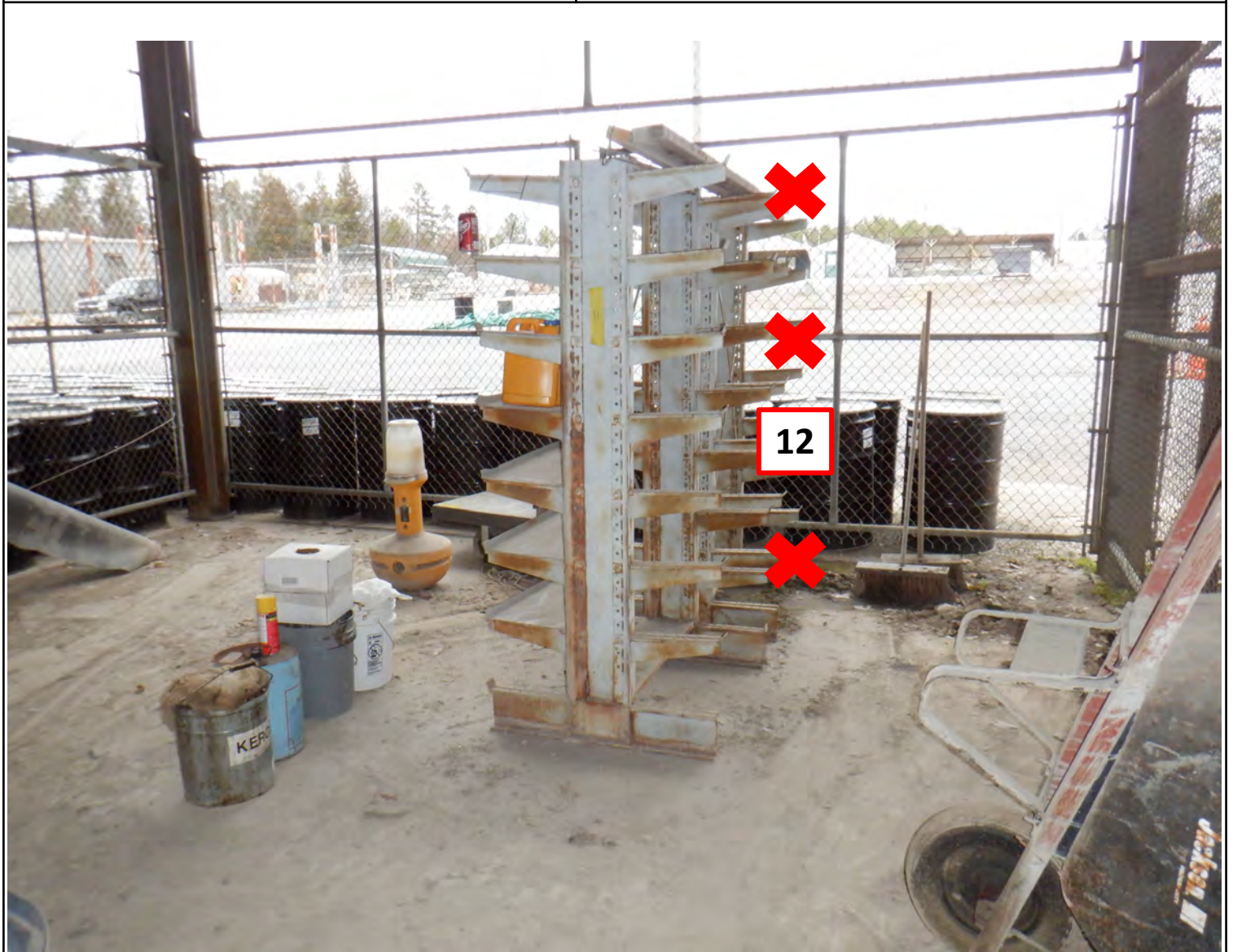


	<b>Sample #</b>	SID14332-11
	<b>Sample Location / Orientation</b>	Storage Rack, West

**SURVEY PHOTO REPORT FOR BUILDING 7070  
DEMOLITION PROJECT  
SID 14332**

**Date: 2/26/2021**

**IH Technician: Jeff Morris**

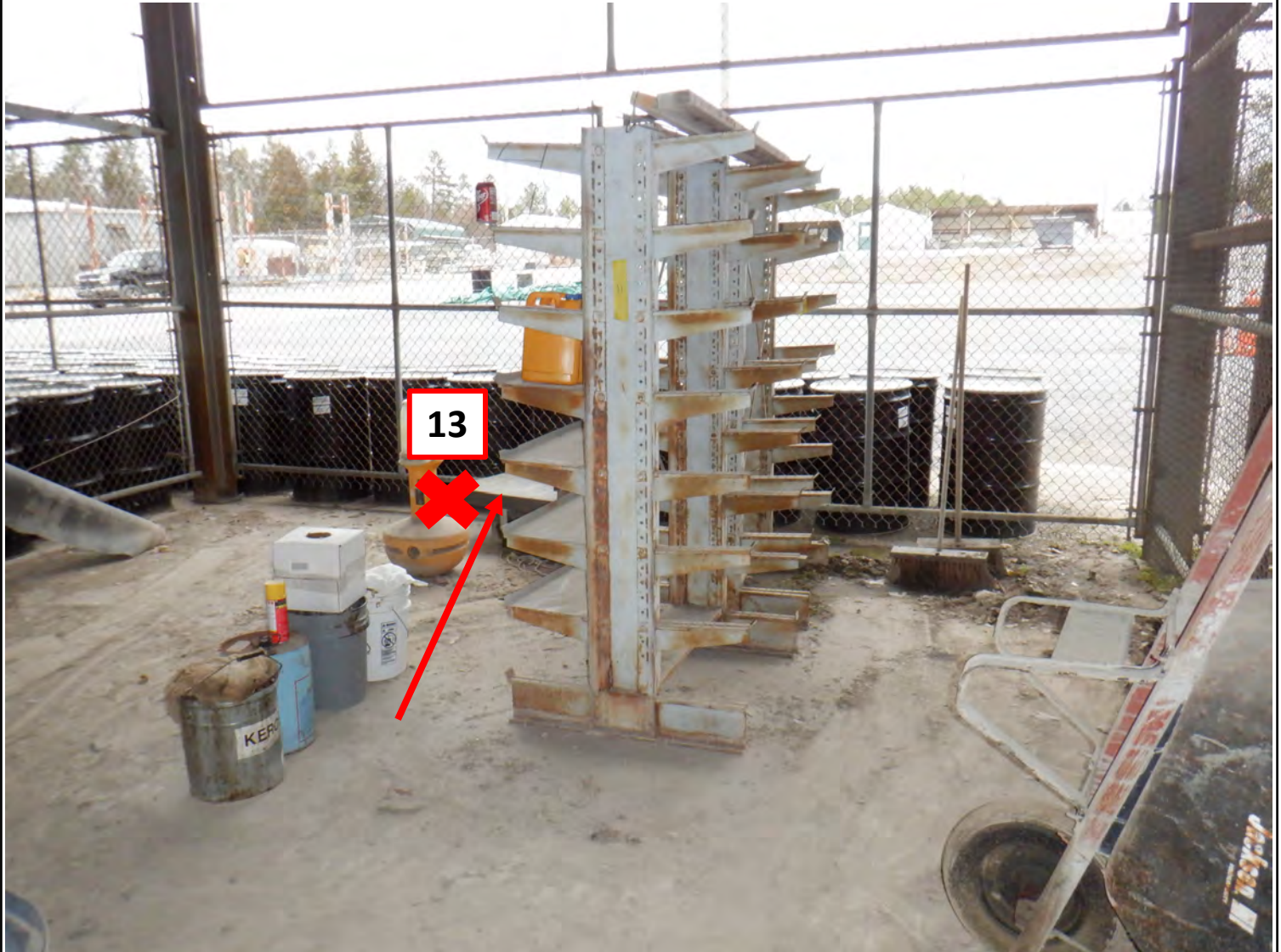


	<b>Sample #</b>	<b>SID14332-12</b>
	<b>Sample Location / Orientation</b>	Storage Rack, East

**SURVEY PHOTO REPORT FOR BUILDING 7070  
DEMOLITION PROJECT  
SID 14332**

**Date: 2/26/2021**

**IH Technician: Jeff Morris**



	<b>Sample #</b>	<b>SID14332-13</b>
	<b>Sample Location / Orientation</b>	Wooden Mobile Cart (Three Locations)



**SURVEY PHOTO REPORT FOR BUILDING 7070  
DEMOLITION PROJECT  
SID 14332**

**Date: 2/26/2021**

**IH Technician: Jeff Morris**



**14**

	<b>Sample #</b>	<b>SID14332-14</b>
	<b>Sample Location / Orientation</b>	Shelving Unit/Storage Rack, Shelves

**SURVEY PHOTO REPORT FOR BUILDING 7070  
DEMOLITION PROJECT  
SID 14332**

**Date: 2/26/2021**

**IH Technician: Jeff Morris**



	<b>Sample #</b>	<b>SID14332-15</b>
	<b>Sample Location / Orientation</b>	Shelving Unit/Storage Rack, Shelves (Left)

**SURVEY PHOTO REPORT FOR BUILDING 7070  
DEMOLITION PROJECT  
SID 14332**

**Date: 2/26/2021**

**IH Technician: Jeff Morris**

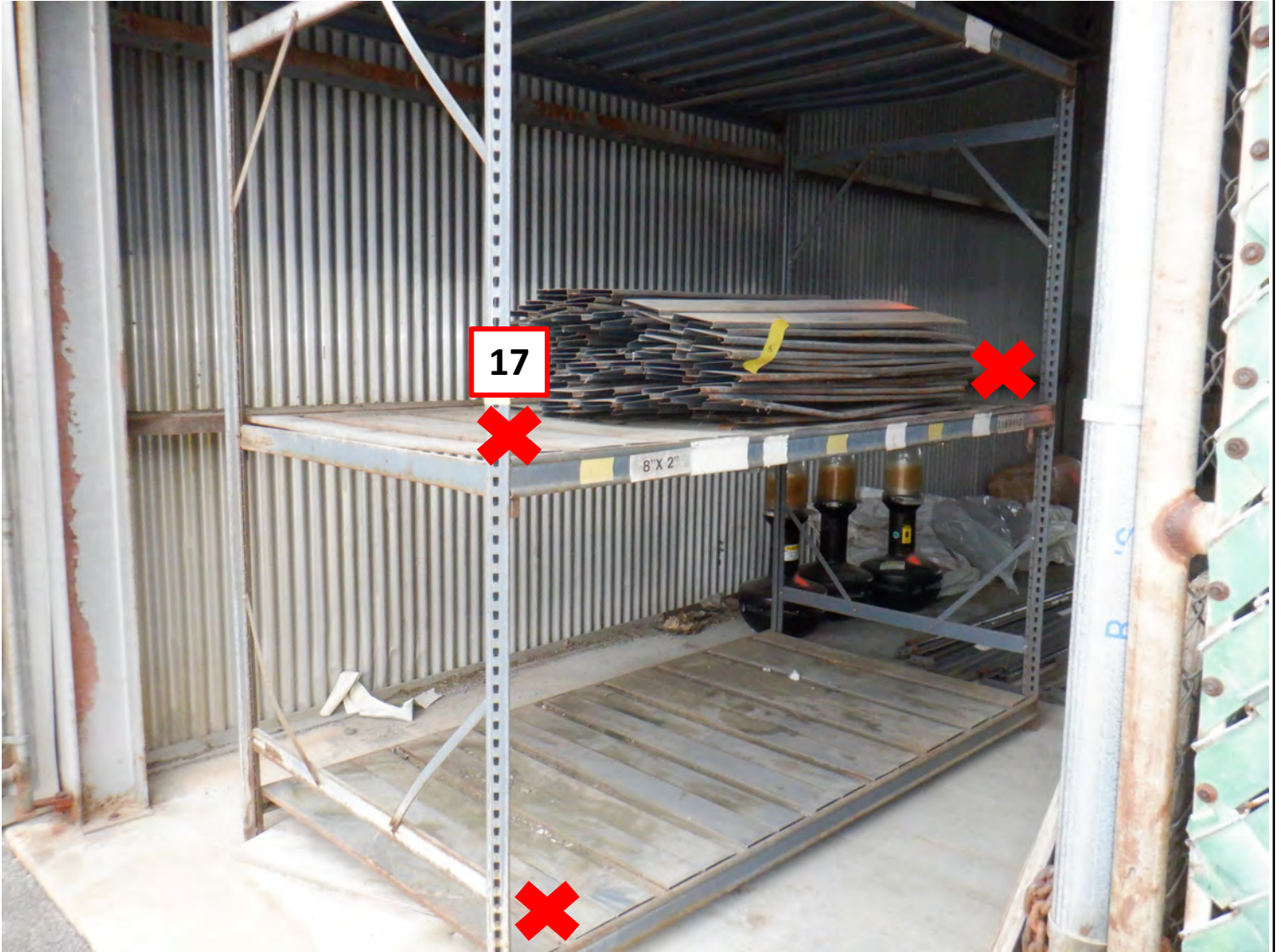


	<b>Sample #</b>	<b>SID14332-16</b>
	<b>Sample Location / Orientation</b>	Shelving Unit/Storage Rack, Shelves (Right)

SURVEY PHOTO REPORT FOR BUILDING 7070  
DEMOLITION PROJECT  
SID 14332

Date: 2/26/2021

IH Technician: Jeff Morris



<b>Sample #</b>	<b>SID14332-17</b>
<b>Sample Location / Orientation</b>	Shelving Unit/Storage Rack, Middle and Bottom Shelves

**SURVEY PHOTO REPORT FOR BUILDING 7070  
DEMOLITION PROJECT  
SID 14332**

**Date: 2/26/2021**

**IH Technician: Jeff Morris**

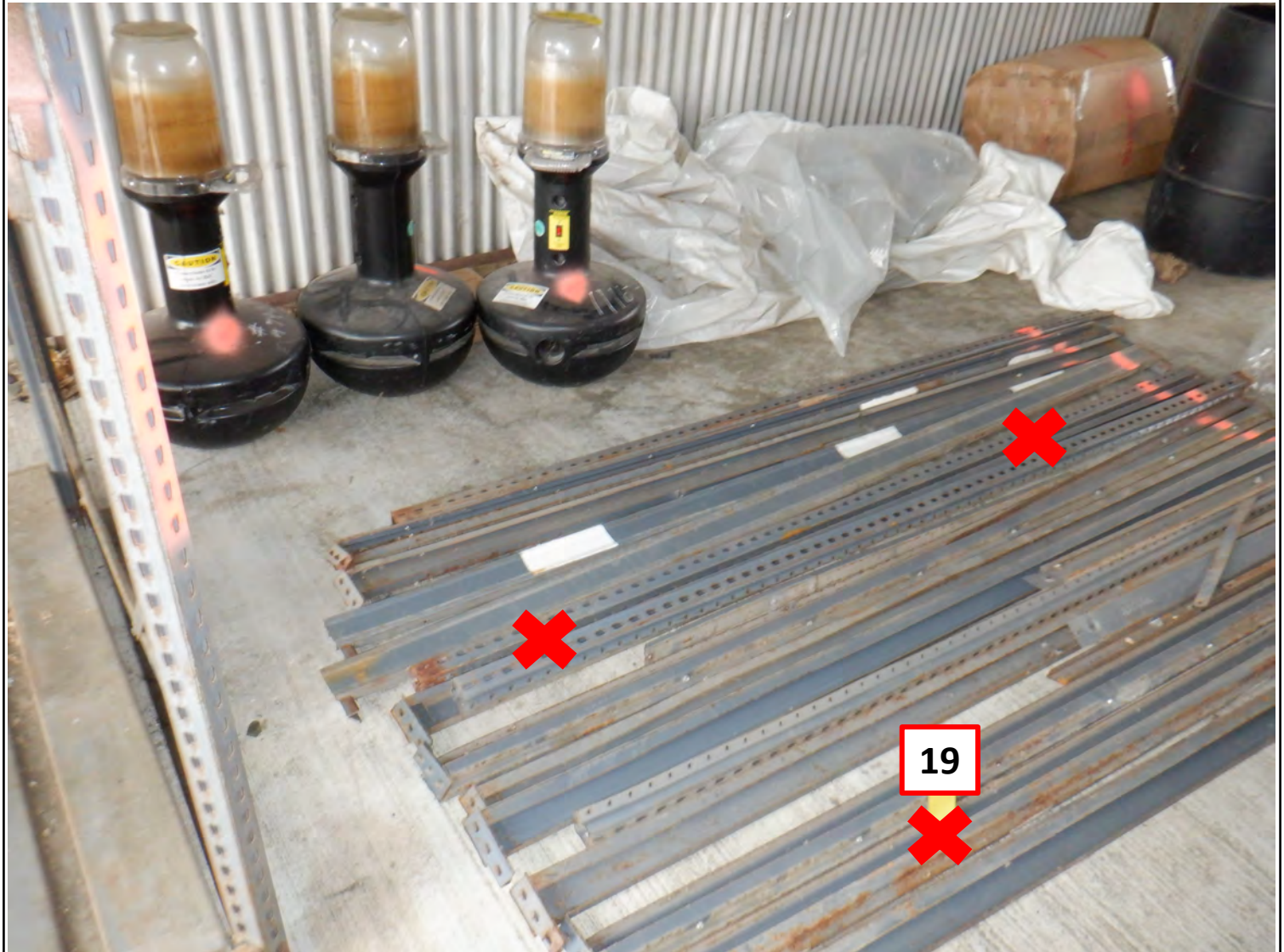


	<b>Sample #</b>	<b>SID14332-18</b>
	<b>Sample Location / Orientation</b>	Metal Panels on Shelving Unit/Storage Rack on Middle Shelf (Three Locations)

**SURVEY PHOTO REPORT FOR BUILDING 7070  
DEMOLITION PROJECT  
SID 14332**

**Date: 2/26/2021**

**IH Technician: Jeff Morris**

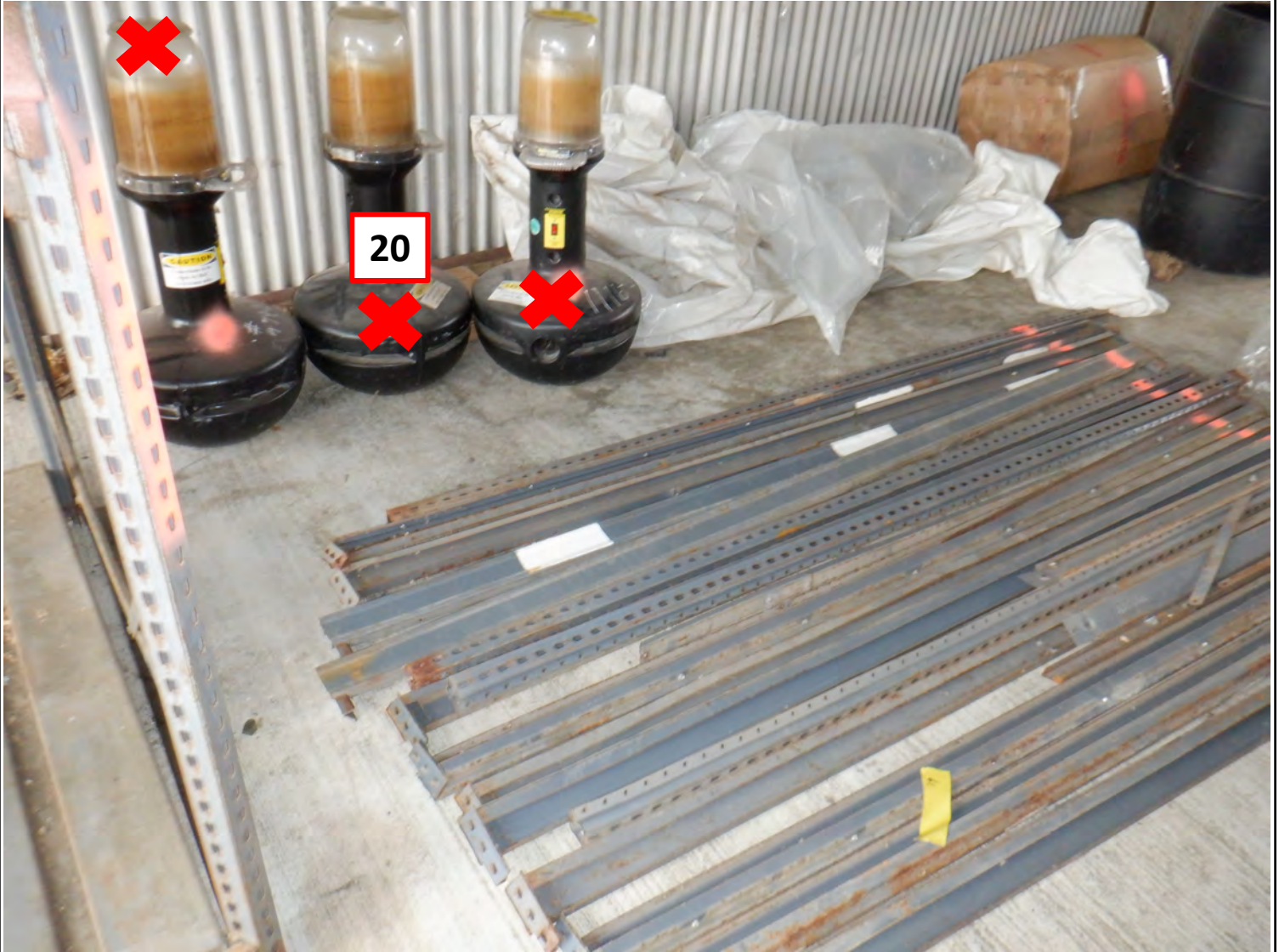


	<b>Sample #</b>	<b>SID14332-19</b>
	<b>Sample Location / Orientation</b>	Metal Shelf Brackets

**SURVEY PHOTO REPORT FOR BUILDING 7070  
DEMOLITION PROJECT  
SID 14332**

**Date: 2/26/2021**

**IH Technician: Jeff Morris**



	<b>Sample #</b>	<b>SID14332-20</b>
	<b>Sample Location / Orientation</b>	Mobile Work Lights (Three)

**SURVEY PHOTO REPORT FOR BUILDING 7070  
DEMOLITION PROJECT  
SID 14332**

**Date: 2/26/2021**

**IH Technician: Jeff Morris**



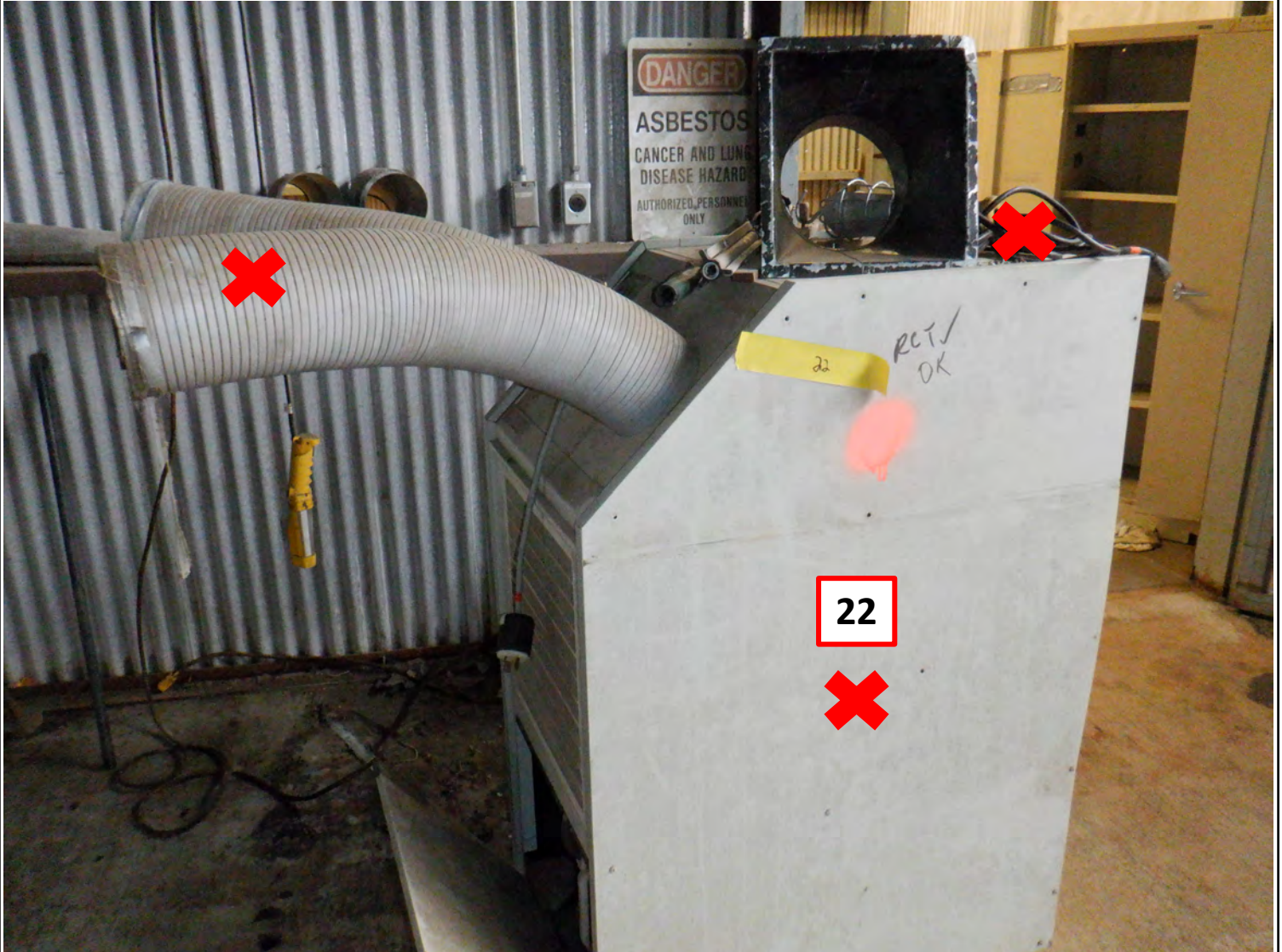
	<b>Sample #</b>	<b>SID14332-21</b>
	<b>Sample Location / Orientation</b>	Table Saw



SURVEY PHOTO REPORT FOR BUILDING 7070  
DEMOLITION PROJECT  
SID 14332

Date: 2/26/2021

IH Technician: Jeff Morris



	<b>Sample #</b>	SID14332-22
	<b>Sample Location / Orientation</b>	Portable AC Unit

**SURVEY PHOTO REPORT FOR BUILDING 7070  
DEMOLITION PROJECT  
SID 14332**

**Date: 2/26/2021**

**IH Technician: Jeff Morris**



	<b>Sample #</b>	<b>SID14332-23</b>
	<b>Sample Location / Orientation</b>	Metal Cabinet, Inside Shelves (Three Locations)

**SURVEY PHOTO REPORT FOR BUILDING 7070  
DEMOLITION PROJECT  
SID 14332**

**Date: 2/26/2021**

**IH Technician: Jeff Morris**



	<b>Sample #</b>	<b>SID14332-24</b>
	<b>Sample Location / Orientation</b>	Ladder (Red)

**SURVEY PHOTO REPORT FOR BUILDING 7070  
DEMOLITION PROJECT  
SID 14332**

**Date: 2/26/2021**

**IH Technician: Jeff Morris**



	<b>Sample #</b>	<b>SID14332-25</b>
	<b>Sample Location / Orientation</b>	Ladder (Blue)

SURVEY PHOTO REPORT FOR BUILDING 7070  
DEMOLITION PROJECT  
SID 14332

Date: 2/26/2021

IH Technician: Jeff Morris



	<b>Sample #</b>	<b>SID14332-26</b>
	<b>Sample Location / Orientation</b>	Shelving Unit/Storage Rack, Bottom Three Shelves

SURVEY PHOTO REPORT FOR BUILDING 7070  
DEMOLITION PROJECT  
SID 14332

Date: 2/26/2021

IH Technician: Jeff Morris



	<b>Sample #</b>	SID14332-27
	<b>Sample Location / Orientation</b>	Shelving Unit/Storage Rack, Bottom Three Shelves

**SURVEY PHOTO REPORT FOR BUILDING 7070  
DEMOLITION PROJECT  
SID 14332**

**Date: 2/26/2021**

**IH Technician: Jeff Morris**



<b>Sample #</b>	<b>SID14332-28</b>
<b>Sample Location / Orientation</b>	Shelving Unit/Storage Rack, Bottom Three Shelves, Right

**SURVEY PHOTO REPORT FOR BUILDING 7070  
DEMOLITION PROJECT  
SID 14332**

**Date: 2/26/2021**

**IH Technician: Jeff Morris**



<b>Sample #</b>	<b>SID14332-29</b>
<b>Sample Location / Orientation</b>	Shelving Unit/Storage Rack, Bottom Three Shelves, Left



**SURVEY PHOTO REPORT FOR BUILDING 7070  
DEMOLITION PROJECT  
SID 14332**

**Date: 2/26/2021**

**IH Technician: Jeff Morris**



<b>Sample #</b>	<b>SID14332-30</b>
<b>Sample Location / Orientation</b>	Shelving Unit/Storage Rack, Bottom Three Shelves, Center

SURVEY PHOTO REPORT FOR BUILDING 7070  
DEMOLITION PROJECT  
SID 14332

Date: 2/26/2021

IH Technician: Jeff Morris



<b>Sample #</b>	<b>SID14332-31</b>
<b>Sample Location / Orientation</b>	Shelving Unit/Storage Rack, Bottom Three Shelves, Right

# Lead Characterization

The Company has performed lead characterization and evaluations for the areas defined by the demolition boundaries for the CRSF Building Demolition Task. There is no history of lead usage or storage in or around many of these buildings. From the samples collected and from knowledge of activities performed within these buildings, there are no lead concerns associated with this Task.

Buildings 7035B and 7035E have sample results from elevated surfaces that require abatement prior to demolition. This abatement shall consist of wiping down the upward facing horizontal surfaces prior to demolition. The wipes and other PPE used during this abatement shall be properly containerized (in Company provided containers) and the Company will disposition these containers. Seller shall make an effort to minimize the volumes of lead-contaminated wipes/PPE.

No clearance sampling will be required once these surfaces have been wiped down.

## Survey Profile Report - Survey Coversheet

Survey ID: **SID14062**  
Status: **OPEN**  
Survey Title: **PB\_WIPES\_FLOOR\_7033\_FIRST\_001,**  
**004\_11/18/2020**  
Survey Date: **18-NOV-2020**  
Location: **7033 FIRST**  
IH-Safety officer: **SMITH,DUANE (00965363)**  
Primary Sampler: **LINER,MIRANDA (03084423)**

## Request Description

## Description of and Purpose for Sampling:

Determine if beryllium and/or lead contamination is present on outside floor surfaces. Data will be used to assist in determining building contamination for D&D. There is not a lot of accessible elevated sample areas.

## Description of Sample Equipment and Placement While Sampling:

See attached map for sample locations.

## Description of Sampling Method:

Wipe Sampling. Metals IOP O1-12.5

Sample Rationale: **FACILITY CHARACTERIZATION**

## Analytical Method

Sampling Matrix/Device: GHOST WIPES

Sampling Method: METALS\_SURFACE/IOP O1-12.5

## Description of Analysis Requested (for lab personnel)

Lead

## Other

Characterization Status: **CHARACTERIZATION COMPLETE, NO EXCEEDENCES**

Characterization Category: **FLOOR**

**Survey Discussion**

## Discussion of Results, Expectations and History

The average of all 12 randomly collected floor wipe samples was 9 ug/ft<sup>2</sup> which is well below the ORNL Recommended Clearance Limit for non-lead work areas (200 ug/ft<sup>2</sup> average). All 12 samples were less than 200 ug/ft<sup>2</sup>. Based on these results, lead controls are not required to access these areas.

## Survey Conclusions and Comments

Visual Sample Plan was used to select random sample locations within the survey area. The average of all sample results will be compared to the ORNL Recommended Clearance Limit for non-lead work areas (200 ug/ft<sup>2</sup> average) to determine if the area is contaminated with lead.

## Recommendations to Workers and Management

None

**Blanks/Controls**

Sample	Analyzed agent	Result	Unit	Comments
SID14062-13	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<3.8	UG	Lead

## Tracking

Sample Date (or start) **18-NOV-2020**

**Sample results list**

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
<a href="#">SID14062-01</a>	18-NOV-2020	WIPE SAMPLING	FLOOR		7033 FIRST 04	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	6.3	UG/FT2	200
<a href="#">SID14062-02</a>	18-NOV-2020	WIPE SAMPLING	FLOOR		7033 FIRST 04	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	15	UG/FT2	200
<a href="#">SID14062-03</a>	18-NOV-2020	WIPE SAMPLING	FLOOR		7033 FIRST 04	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	25	UG/FT2	200

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
SID14062-04	18-NOV-2020	WIPE SAMPLING	FLOOR		7033 FIRST 01	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	8.3	UG/FT2	200
SID14062-05	18-NOV-2020	WIPE SAMPLING	FLOOR		7033 FIRST 01	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	8.3	UG/FT2	200
SID14062-06	18-NOV-2020	WIPE SAMPLING	FLOOR		7033 FIRST 01	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<3.8	UG/FT2	200
SID14062-07	18-NOV-2020	WIPE SAMPLING	FLOOR		7033 FIRST 01	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	6.7	UG/FT2	200
SID14062-08	18-NOV-2020	WIPE SAMPLING	FLOOR		7033 FIRST 01	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	7.8	UG/FT2	200
SID14062-09	18-NOV-2020	WIPE SAMPLING	FLOOR		7033 FIRST 01	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	15	UG/FT2	200
SID14062-10	18-NOV-2020	WIPE SAMPLING	FLOOR		7033 FIRST 01	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<3.8	UG/FT2	200
SID14062-11	18-NOV-2020	WIPE SAMPLING	FLOOR		7033 FIRST 01	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	5	UG/FT2	200
SID14062-12	18-NOV-2020	WIPE SAMPLING	FLOOR		7033 FIRST 01	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<3.8	UG/FT2	200



# Analytical Report

Safety Services Division  
Industrial Hygiene  
Analytical Laboratory

Smith, Duane

Batch: 9130

Location: 7033 FIRST

Received Date: 11/20/2020

Analysis Date: 12/2/2020

Report Date: 12/8/2020

Sample ID	Analyte	Result	Units	Comments
SID14062-01	Lead Wipe	6.3	ug	
SID14062-02	Lead Wipe	15	ug	
SID14062-03	Lead Wipe	25	ug	
SID14062-04	Lead Wipe	8.3	ug	
SID14062-05	Lead Wipe	8.3	ug	
SID14062-06	Lead Wipe	<3.8	ug	
SID14062-07	Lead Wipe	5.7	ug	
SID14062-08	Lead Wipe	7.8	ug	
SID14062-09	Lead Wipe	15	ug	
SID14062-10	Lead Wipe	<3.8	ug	
SID14062-11	Lead Wipe	5.0	ug	
SID14062-12	Lead Wipe	<3.8	ug	
SID14062-13	Lead Wipe	<3.8	ug	

**Reporting Level**

Lead Wipe 3.8 ug

**Laboratory:** IHAL

**Method:** IOP 01-26.20

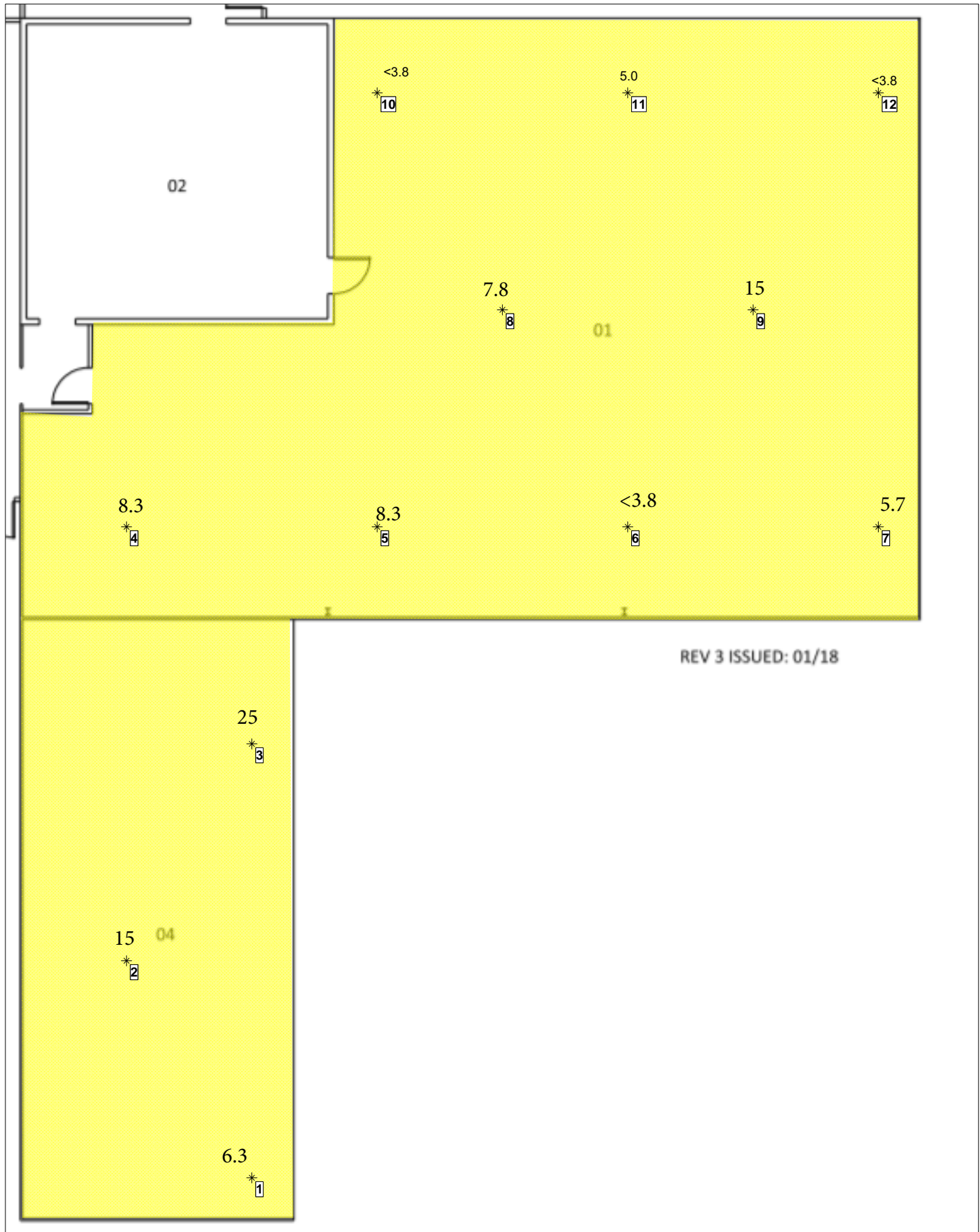
Note: Samples were received in good condition unless otherwise noted. Results are not blank corrected unless otherwise noted. Results relate only to the items tested.

Approved By: Crystal R. Hoffmann

Date: 12/8/20

Crystal R. Hoffmann  
Industrial Hygiene Laboratory Manager

7033 Collect 100 cm2 wipe samples for Be and 1 ft2 wipe samples for Pb from the nearest available floor surface above the at the locations indicated.







7033 001



7033 004



## Survey Profile Report - Survey Coversheet

Survey ID: **SID14065**

Status: **OPEN**

Survey **PB**

Title: **WIPES\_FLOOR\_7033\_FIRST\_002\_003\_005\_11/18/2020**

Survey Date **18-NOV-2020**

Location: **7033 FIRST**

IH-Safety officer: **SMITH,DUANE (00965363)**

Primary Sampler: **MASSARO,REBEKKAH (03077143)**

## Request Description

### Description of and Purpose for Sampling:

Determine if lead contamination is present on floor surfaces inside 7033. Data will be used for characterizing building for D&D.

### Description of Sample Equipment and Placement While Sampling:

See attached map

### Description of Sampling Method:

Wipe

Sample Rationale: **FACILITY CHARACTERIZATION**

## Analytical Method

Sampling Matrix/Device: GHOST WIPES

Sampling Method: METALS\_SURFACE/IOP O1-12.5

### Description of Analysis Requested (for lab personnel)

Lead

## Other

Characterization Status: **CHARACTERIZATION COMPLETE, NO EXCEEDENCES**

Characterization Category: **FLOOR**

## Survey Discussion

## Discussion of Results, Expectations and History

The average of all randomly collected floor wipe samples was less than the LOQ (3.8 ug/ft<sup>2</sup>) which is less the ORNL Recommended Clearance Limit for non-lead work areas (200 ug/ft<sup>2</sup> average). All samples were less than 3.8 ug/ft<sup>2</sup>. Based on these results, lead controls are not required to access these areas.

## Survey Conclusions and Comments

Visual Sample Plan was used to select random sample locations within the survey area. The average of all sample results will be compared to the ORNL Recommended Clearance Limit for non-lead work areas (200 ug/ft<sup>2</sup> average) to determine if the area is contaminated with lead.

## Recommendations to Workers and Management

NONE

## Blanks/Controls

Sample	Analyzed agent	Result	Unit	Comments
SID14065-12	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<3.8	UG	Lead

## Tracking

Sample Date (or start) **18-NOV-2020**

Sent to Lab **20-NOV-2020**

## Sample results list

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
<a href="#">SID14065-01</a>	18-NOV-2020	WIPE SAMPLING	FLOOR		7033 FIRST 05	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<3.8	UG/FT2	200
<a href="#">SID14065-02</a>	18-NOV-2020	WIPE SAMPLING	FLOOR		7033 FIRST 02	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<3.8	UG/FT2	200
<a href="#">SID14065-03</a>	18-NOV-2020	WIPE SAMPLING	FLOOR		7033 FIRST 05	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<3.8	UG/FT2	200

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
SID14065-04	18-NOV-2020	WIPE SAMPLING	FLOOR		7033 FIRST 02	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<3.8	UG/FT2	200
SID14065-05	18-NOV-2020	WIPE SAMPLING	FLOOR		7033 FIRST 02	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<3.8	UG/FT2	200
SID14065-06	18-NOV-2020	WIPE SAMPLING	FLOOR		7033 FIRST 02	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<3.8	UG/FT2	200
SID14065-07	18-NOV-2020	WIPE SAMPLING	FLOOR		7033 FIRST 02	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<3.8	UG/FT2	200
SID14065-08	18-NOV-2020	WIPE SAMPLING	FLOOR		7033 FIRST 03	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<3.8	UG/FT2	200
SID14065-09	18-NOV-2020	WIPE SAMPLING	FLOOR		7033 FIRST 03	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<3.8	UG/FT2	200
SID14065-10	18-NOV-2020	WIPE SAMPLING	FLOOR		7033 FIRST 03	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<3.8	UG/FT2	200
SID14065-11	18-NOV-2020	WIPE SAMPLING	FLOOR		7033 FIRST 03	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<3.8	UG/FT2	200



# Analytical Report

Safety Services Division  
Industrial Hygiene  
Analytical Laboratory

Smith, Duane

Batch: 9128

Location: 7033 FIRST

Received Date: 11/20/2020

Analysis Date: 12/2/2020

Report Date: 12/8/2020

Sample ID	Analyte	Result	Units	Comments
SID14065-01	Lead Wipe	<3.8	ug	
SID14065-02	Lead Wipe	<3.8	ug	
SID14065-03	Lead Wipe	<3.8	ug	
SID14065-04	Lead Wipe	<3.8	ug	
SID14065-05	Lead Wipe	<3.8	ug	
SID14065-06	Lead Wipe	<3.8	ug	
SID14065-07	Lead Wipe	<3.8	ug	
SID14065-08	Lead Wipe	<3.8	ug	
SID14065-09	Lead Wipe	<3.8	ug	
SID14065-10	Lead Wipe	<3.8	ug	
SID14065-11	Lead Wipe	<3.8	ug	
SID14065-12	Lead Wipe	<3.8	ug	

### Reporting Level

Lead Wipe 3.8 ug

Laboratory: IHAL

Method: IOP 01-26.20

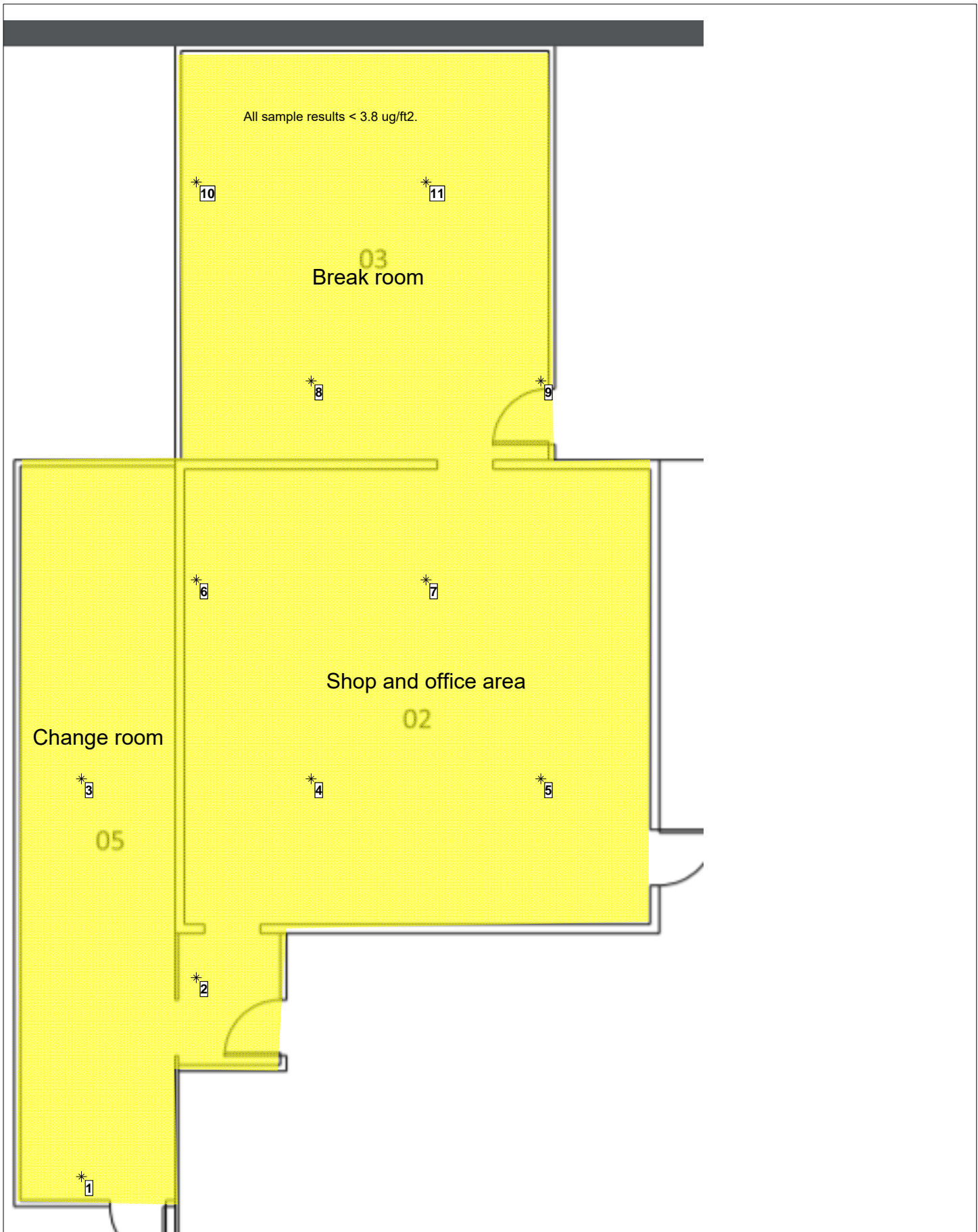
Note: Samples were received in good condition unless otherwise noted. Results are not blank corrected unless otherwise noted. Results relate only to the items tested.

Approved By: Crystal R. Hoffmann

Date: 12/8/20

Crystal R. Hoffmann  
Industrial Hygiene Laboratory Manager

7033 Collect 100 cm<sup>2</sup> wipe samples for Be and 1 ft<sup>2</sup> wipe samples for Pb from the nearest available floor surface above the at the locations indicated.



## Survey Profile Report - Survey Coversheet

Survey ID: **SID14068**  
Status: **OPEN**  
Survey Title: **PB\_WIPE\_FLOOR\_BUILDING**  
**7070\_11/19/2020**  
Survey Date: **19-NOV-2020**  
Location: **7070 FIRST**  
IH-Safety officer: **SMITH,DUANE (00965363)**  
Primary Sampler: **MASSARO,REBEKKAH**  
**(03077143)**

## Request Description

## Description of and Purpose for Sampling:

Determine if Lead contamination is present on floor of 7070  
LOT # 03C1 011520 EX0723

## Description of Sample Equipment and Placement While Sampling:

See attached map  
Sample #12 moved to room 02

## Description of Sampling Method:

Wipe

Sample Rationale: **FACILITY CHARACTERIZATION**

## Analytical Method

Sampling Matrix/Device: GHOST WIPES

Sampling Method: METALS\_SURFACE/IOP O1-12.5

## Description of Analysis Requested (for lab personnel)

Lead

## Other

Characterization Status: **CHARACTERIZATION COMPLETE, NO EXCEEDENCES**

Characterization Category: **FLOOR**

**Survey Discussion**

## Discussion of Results, Expectations and History

The average of all 18 randomly collected floor wipe samples was 66 ug/ft<sup>2</sup> which is below the ORNL Recommended Clearance Limit for non-lead work areas (200 ug/ft<sup>2</sup> average). All 18 samples were less than 200 ug/ft<sup>2</sup>. Based on these results, lead controls are not required to access these areas.

## Survey Conclusions and Comments

Visual Sample Plan was used to select random sample locations within the survey area. The average of all sample results will be compared to the ORNL Recommended Clearance Limit for non-lead work areas (200 ug/ft<sup>2</sup> average) to determine if the area is contaminated with lead.

## Recommendations to Workers and Management

NONE

**Blanks/Controls**

Sample	Analyzed agent	Result	Unit	Comments
SID14068-19	-	<3.8	-	
SID14068-20	-	<3.8	-	

## Tracking

Sample Date (or start) **19-NOV-2020**

Sent to Lab **20-NOV-2020**

**Sample results list**

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
<a href="#">SID14068-01</a>	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01A	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	31	UG/FT2	200
<a href="#">SID14068-02</a>	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01B	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	71	UG/FT2	200
<a href="#">SID14068-03</a>	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01C	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	130	UG/FT2	200



Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
SID14068-04	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01E	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<60	UG/FT2	200
SID14068-05	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01E	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	81	UG/FT2	200
SID14068-06	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 03	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	58	UG/FT2	200
SID14068-07	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01A	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	60	UG/FT2	200
SID14068-08	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01B	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	25	UG/FT2	200
SID14068-09	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01C	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	120	UG/FT2	200
SID14068-10	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01D	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	130	UG/FT2	200
SID14068-11	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01E	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	55	UG/FT2	200
SID14068-12	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 02	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	17	UG/FT2	200
SID14068-13	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01A	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	56	UG/FT2	200
SID14068-14	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01B	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	33	UG/FT2	200
SID14068-15	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01C	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	160	UG/FT2	200
SID14068-16	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01E	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	45	UG/FT2	200
SID14068-17	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01E	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	30	UG/FT2	200

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
SID14068-18	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 02	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	18	UG/FT2	200



# Analytical Report

Safety Services Division  
Industrial Hygiene  
Analytical Laboratory

Smith, Duane

Batch: 9132

Location: 7070 FIRST

Received Date: 11/20/2020

Analysis Date: 12/2/2020

Report Date: 12/11/2020

Sample ID	Analyte	Result	Units	Comments
SID14068-01	Lead Wipe	31	ug	
SID14068-02	Lead Wipe	71	ug	
SID14068-03	Lead Wipe	130	ug	Sample boiled over during digestion resulting in approximately 5-10% sample loss. Sample had to be divided into two aliquots for digestion due to excessive foaming upon addition of acids. Total volume of digestate analyzed was 80 mL. Result may be biased low. Result reported from a 4x dilution. Reporting level increased to 24 ug based on a final volume of 80 mL.
SID14068-04	Lead Wipe	<60	ug	Sample boiled over during digestion resulting in approximately 10% sample loss. Sample had to be divided into two aliquots for digestion due to excessive foaming upon addition of acids. Total volume of digestate analyzed was 80 mL. Result may be biased low. Result reported from a 10x dilution. Reporting level increased to 60 ug based on a final volume of 80 mL.
SID14068-05	Lead Wipe	81	ug	
SID14068-06	Lead Wipe	58	ug	
SID14068-07	Lead Wipe	60	ug	
SID14068-08	Lead Wipe	25	ug	
SID14068-09	Lead Wipe	120	ug	Sample produced excessive foam upon the addition of acid and was divided into 3 aliquots for digestion. Total volume of sample analyzed was 100 mL. Result may be biased slightly low. Result reported from a 4x dilution. Reporting level increased to 30 ug based on a 100 mL sample volume.
SID14068-10	Lead Wipe	130	ug	Sample produced excessive foam upon the addition of acid and was divided into 2 aliquots for digestion. Total volume of sample analyzed was 50 mL. Result may be biased low. Result reported from a 10x dilution. Reporting level increased to 38 ug.
SID14068-11	Lead Wipe	55	ug	

# Analytical Report

Sample ID	Analyte	Result	Units	Comments
SID14068-12	Lead Wipe	17	ug	
SID14068-13	Lead Wipe	56	ug	
SID14068-14	Lead Wipe	33	ug	
SID14068-15	Lead Wipe	160	ug	
SID14068-16	Lead Wipe	45	ug	
SID14068-17	Lead Wipe	30	ug	
SID14068-18	Lead Wipe	18	ug	
SID14068-19	Lead Wipe	<3.8	ug	
SID14068-20	Lead Wipe	<3.8	ug	

**Reporting Level**

Lead Wipe 3.8 ug

**Laboratory:** IHAL**Method:** IOP 01-26.20

Note: Samples were received in good condition unless otherwise noted. Results are not blank corrected unless otherwise noted. Results relate only to the items tested.

Approved By: Crystal R. HoffmannDate: 12/11/20

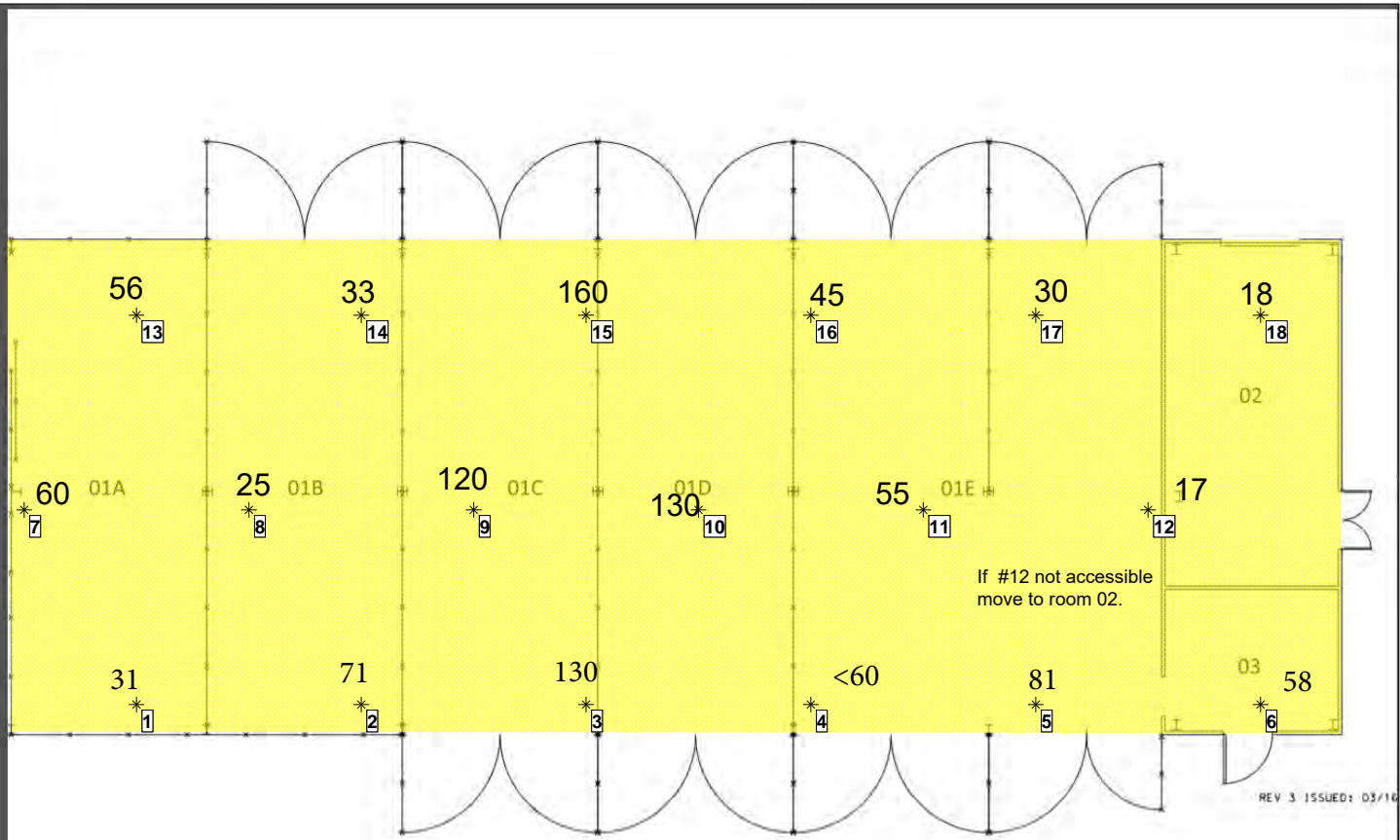
Crystal R. Hoffmann

Page 2 of 2

Industrial Hygiene Laboratory Manager

12/11/2020 10:42:32 AM

7033 Collect 100 cm<sup>2</sup> wipe samples for Be and 1 ft<sup>2</sup> wipe samples for Pb from the nearest available floor surface at the locations indicated.



BUILDING 7070 FIRST FLOOR PLAN

## Sample Survey Profile Report

### Survey Profile Report - Survey Coversheet

Survey ID: **SID14122**  
Status: **OPEN**  
Survey Title: **PB\_WIPES\_ABOVE  
CEILING\_7033\_FIRST\_003\_005\_12/09/2020**  
Survey Date: **09-DEC-2020**  
Location: **7033 FIRST**  
IH-Safety officer: **SMITH,DUANE (00965363)**  
Primary Sampler: **LINER,MIRANDA (03084423)**

### Request Description

#### Description of and Purpose for Sampling:

Determine if lead contamination is present above ceiling of 7033. Data will be used for characterizing building for Excess Facilities Demo.

#### Description of Sample Equipment and Placement While Sampling:

See attachment for sample locations.

#### Description of Sampling Method:

Wipe Sampling.

Sample Rationale: **FACILITY CHARACTERIZATION**

### Analytical Method

Sampling Matrix/Device: GHOST WIPES

Sampling Method: METALS\_SURFACE/IOP O1-12.5

#### Description of Analysis Requested (for lab personnel)

Lead

### Other

Characterization Status: **CHARACTERIZATION COMPLETE, NO EXCEEDENCES**

Characterization Category: **ABV CEILING/SUSPEND**

### Survey Discussion

Discussion of Results, Expectations and History

The average of all 11 randomly collected floor wipe samples was 4.3 ug/ft<sup>2</sup> which is under the ORNL Recommended Clearance Limit for non-lead work areas (200 ug/ft<sup>2</sup> average). All 11 samples were less than 200 ug/ft<sup>2</sup>. Based on these results, lead controls are not required to access these areas.

#### Survey Conclusions and Comments

Visual Sample Plan was used to select random sample locations within the survey area. The average of all sample results will be compared to the ORNL Recommended Clearance Limit for non-lead work areas (200 ug/ft<sup>2</sup> average) to determine if the area is contaminated with lead.

#### Recommendations to Workers and Management

NONE

#### Blanks/Controls

Sample	Analyzed agent	Result	Unit	Comments
SID14122-12	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<3.8	UG	Lead

#### Survey Attachments

	Description of Attachment	
<a href="#">View/Download</a>	SID14122 Sample Request W/ Map	SID14122 7033 3_5_inside elevated sample request with map.pdf
<a href="#">View/Download</a>	SID14122 Sample Map w/ Field Notes	SID14122 Sample Map.pdf

#### Tracking

Sample Date (or start) **09-DEC-2020**

Sent to Lab **10-DEC-2020**

#### Sample results list

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
<a href="#">SID14122-01</a>	09-DEC-2020	WIPE SAMPLING	ABOVE CEILING		7033 FIRST 05	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<3.8	UG/FT2	200
<a href="#">SID14122-02</a>	09-DEC-2020	WIPE SAMPLING	ABOVE CEILING		7033 FIRST 05	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<3.8	UG/FT2	200
<a href="#">SID14122-03</a>	09-DEC-2020	WIPE SAMPLING	ABOVE CEILING		7033 FIRST 05	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<3.8	UG/FT2	200
<a href="#">SID14122-04</a>	09-DEC-2020	WIPE SAMPLING	ABOVE CEILING		7033 FIRST 03	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<3.8	UG/FT2	200

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
SID14122-05	09-DEC-2020	WIPE SAMPLING	ABOVE CEILING		7033 FIRST 03	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<3.8	UG/FT2	200
SID14122-06	09-DEC-2020	WIPE SAMPLING	ABOVE CEILING		7033 FIRST 03	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<3.8	UG/FT2	200
SID14122-07	09-DEC-2020	WIPE SAMPLING	ABOVE CEILING		7033 FIRST 03	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<3.8	UG/FT2	200
SID14122-08	09-DEC-2020	WIPE SAMPLING	ABOVE CEILING		7033 FIRST 03	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<3.8	UG/FT2	200
SID14122-09	09-DEC-2020	WIPE SAMPLING	ABOVE CEILING		7033 FIRST 03	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<3.8	UG/FT2	200
SID14122-10	09-DEC-2020	WIPE SAMPLING	ABOVE CEILING		7033 FIRST 03	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<3.8	UG/FT2	200
SID14122-11	09-DEC-2020	WIPE SAMPLING	ABOVE CEILING		7033 FIRST 05	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	9.1	UG/FT2	200

#### Notification List

Email	Contact	Role
LINERMD@ORNL.GOV	LINER,MIRANDA (03084423)	PRIMARY SAMPLER
SMITHDD@ORNL.GOV	SMITH,DUANE (00965363)	IH-SAFETY OFFICER

#### SAMPLE DETAIL

Sample ID: SID14122-01 Survey ID: SID14122

Sample ID: **SID14122-01**

Survey ID: **SID14122**

Sample Date: **09-DEC-2020**

Assessment: **WIPE SAMPLING**

Result Type: **ABOVE CEILING**

Location: **7033 FIRST 05**

#### Sample Detail

See attachment for sample locations. Sample was taken on flexible conduit.

#### Sort Groups

Org Category: **\_ FACILITY CHARACTERIZATION-RANDOM**

#### Other

Operation Status: **ACTIVE**

Area Category: **CHANGE ROOM**

Sample Method: **METALS\_SURFACE/IOP O1-12.5**

Sample Matrix/Device: **GHOST WIPES**

#### Sample Results





# Analytical Report

Safety Services Division  
Industrial Hygiene  
Analytical Laboratory

Smith, Duane

Batch: 9169

Location: 7033 FIRST

Received Date: 12/11/2020

Analysis Date: 12/15/2020

Report Date: 12/16/2020

Sample ID	Analyte	Result	Units	Comments
SID14122-01	Lead Wipe	<3.8	ug	
SID14122-02	Lead Wipe	<3.8	ug	
SID14122-03	Lead Wipe	<3.8	ug	
SID14122-04	Lead Wipe	<3.8	ug	
SID14122-05	Lead Wipe	<3.8	ug	
SID14122-06	Lead Wipe	<3.8	ug	
SID14122-07	Lead Wipe	<3.8	ug	
SID14122-08	Lead Wipe	<3.8	ug	
SID14122-09	Lead Wipe	<3.8	ug	
SID14122-10	Lead Wipe	<3.8	ug	
SID14122-11	Lead Wipe	9.1	ug	
SID14122-12	Lead Wipe	<3.8	ug	

### Reporting Level

Lead Wipe 3.8 ug

Laboratory: IHAL

Method: IOP 01-26.20

Note: Samples were received in good condition unless otherwise noted. Results are not blank corrected unless otherwise noted. Results relate only to the items tested.

Approved By: \_\_\_\_\_

*Crystal R Hoffmann*

Crystal R. Hoffmann

Industrial Hygiene Laboratory Manager

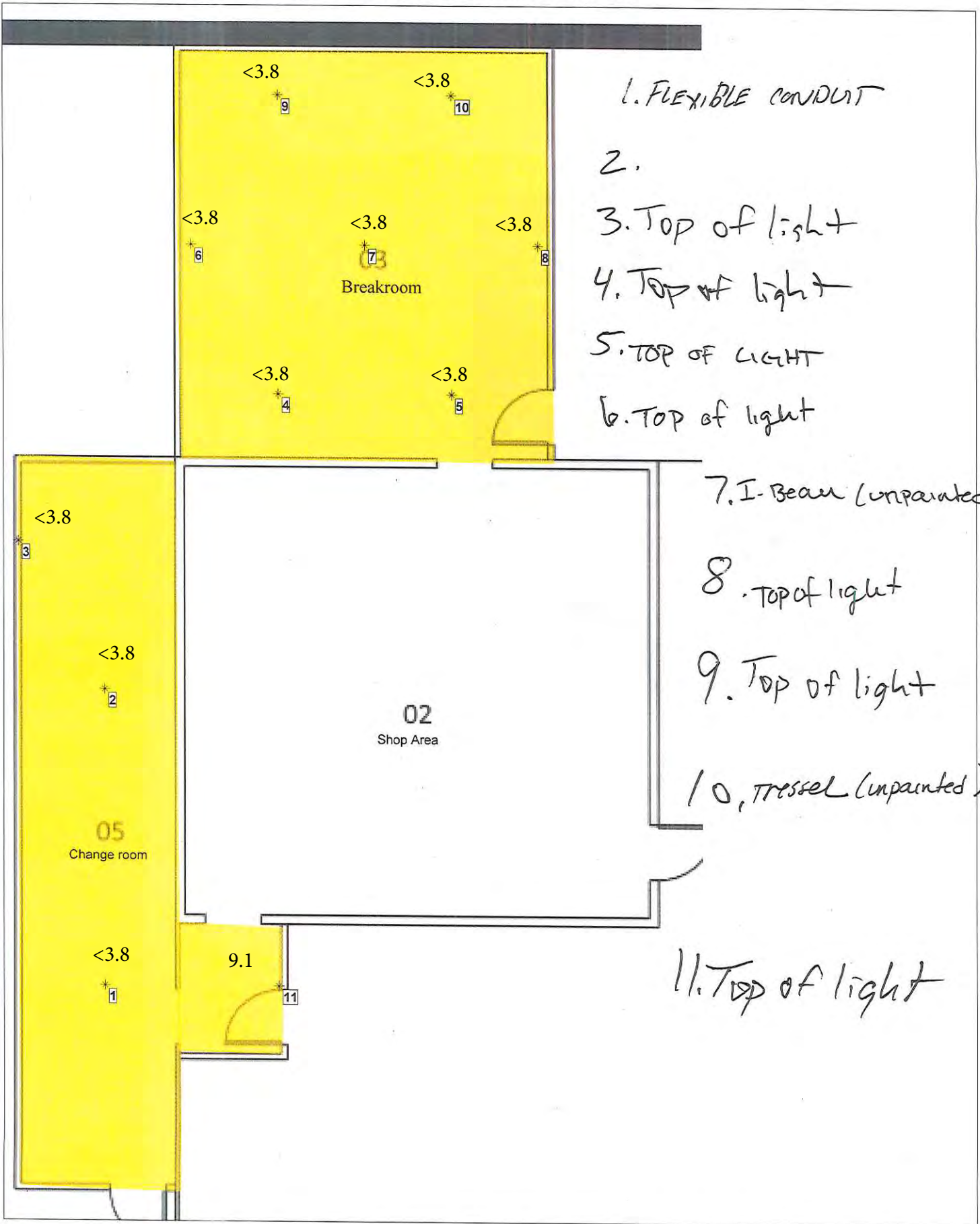
Date: \_\_\_\_\_

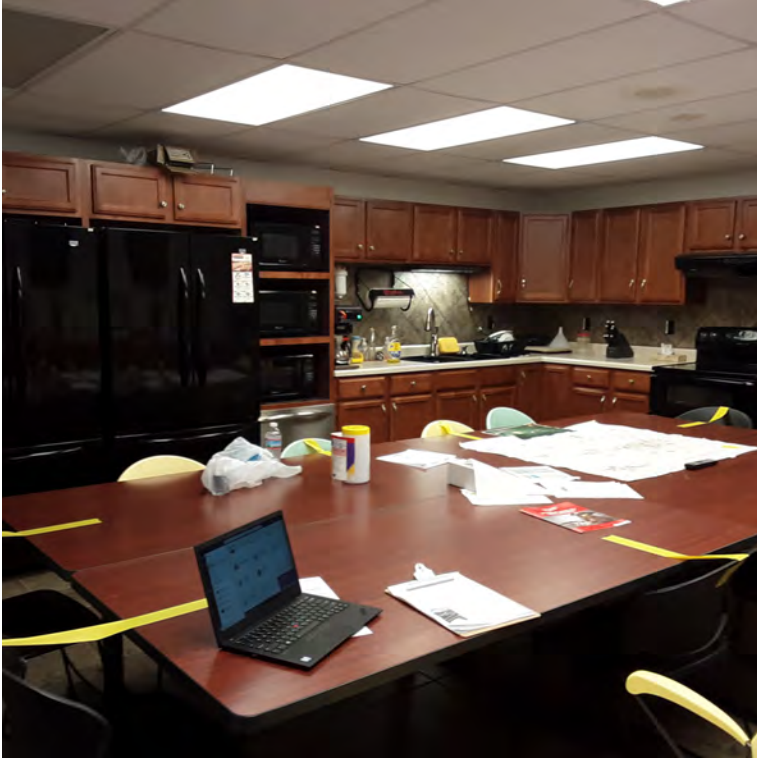
*12/16/20*

Page 1 of 1

12/16/2020 8:22:34 AM

7055 Collect 100 cm<sup>2</sup> wipe samples for Be and 1 ft<sup>2</sup> wipe samples for Pb from the nearest available upward-facing surface above the suspended ceiling at the locations indicated. Follow requirements in the attached BEPP.





Break room. Change room similar ceiling but easier access.

## Survey Profile Report - Survey Coversheet

Survey ID: **SID13308**  
Status: **OPEN**  
Survey Title: **PB WIPES\_ABOVE  
CEILING\_7035A\_7035B\_4.23.2020**  
Survey Date: **23-APR-2020**  
Location: **7035A FIRST**  
IH-Safety officer: **ORR,THOMAS (00029740)**  
Primary Sampler: **CUETO,ERIK (00694595)**

### Request Description

#### Description of and Purpose for Sampling:

Determine if lead contamination is present above the suspended ceiling or on elevated surfaces. Survey supports planning for CRSF-related demolition project. The buildings are currently occupied, but are scheduled to be vacated for demolition by the end of the year.

#### Description of Sample Equipment and Placement While Sampling:

See diagram for sample location. Ghost Wipes Lot# 04C1 041119 EX1022

Sample Rationale: **FACILITY CHARACTERIZATION**

### Analytical Method

Sampling Matrix/Device: GHOST WIPES

Sampling Method: METALS\_SURFACE/IOP O1-12.5

#### Description of Analysis Requested (for lab personnel)

LEAD

### Other

Characterization Status: **CHARACTERIZATION COMPLETE, EXCEEDENCES**

Characterization Category: **ABV CEILING/SUSPEND**

## Survey Discussion

### Discussion of Results, Expectations and History

The average of the 11 sample results was 1,581 ug/ft<sup>2</sup> -- well over the ORNL recommended clearance limit for surface lead for both types of areas. 3 of the 4 samples with elevated results came from steel ceiling/roof members in 7035B. Removable lead-based paint residue most likely accounts for these elevated results; however, the other elevated sample came from the top of a light fixture in 7035B. The other samples with acceptable results were collected from the tops of light fixtures in both buildings. Considering these mixed results, the amount of structural steel ceiling/roof members in the two buildings, and the clearance level being an average the survey decision is that the above ceiling areas in both buildings are contaminated with lead.

### Survey Conclusions and Comments

Both buildings were constructed in 1977. Above-ceiling/elevated surfaces in both buildings were combined into one survey area based on common use over time as paint storage and mixing areas. Visual Sample Plan was used to select random locations for samples within the survey area. The average of all sample results will be compared to the ORNL Recommended Clearance Limit for non-lead areas and D&D areas (200 and 500 ug/ft<sup>2</sup> average) to determine if the above-ceiling/elevated surfaces are contaminated with lead. Sample locations in 7035A were subsequently moved during sample collection to the nearest light fixture due to very limited sampling surfaces above the suspended ceiling.

### Recommendations to Workers and Management

Appropriate lead controls are required for access to and work that disturbs elevated surfaces above 7 ft in these two buildings.

## Blanks/Controls

Sample	Analyzed agent	Result	Unit	Comments
SID13308-12	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<4.5	UG	
SID13308-13	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<4.5	UG	

## Survey Attachments

	Description of Attachment	
<a href="#">View/Download</a>	Survey Report	Survey Report - SID13308.pdf
<a href="#">View/Download</a>	Lab Report	OrrSID13308.pdf
<a href="#">View/Download</a>	Green Tag.pdf	Green Tag.pdf
<a href="#">View/Download</a>	IH Sample Request - 7035A and B_Above Ceiling_Be Pb.pdf	IH Sample Request - 7035A and B_Above Ceiling_Be Pb.pdf
<a href="#">View/Download</a>	SID13307_13308_Sample Diagram.pdf	SID13307_13308_Sample Diagram.pdf

## Tracking

Sample Date (or start) **23-APR-2020**Dates Results Received from Lab: **01-MAY-2020**Date Survey Report Sent: **07-MAY-2020****Sample results list**

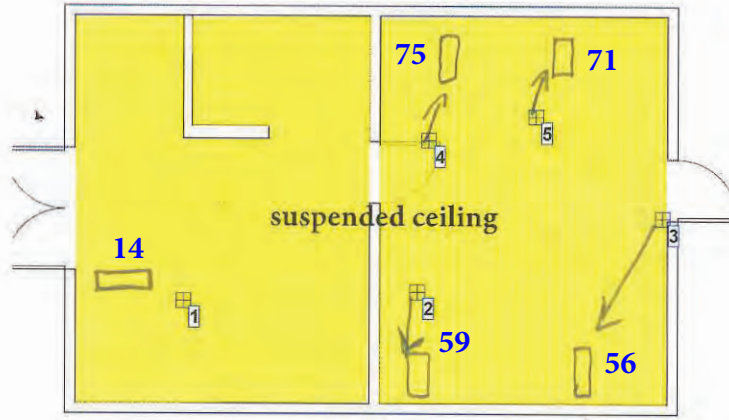
Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
SID13308-01	23-APR-2020	WIPE SAMPLING	ABOVE CEILING		7035A FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	14	UG/FT2	200
SID13308-02	23-APR-2020	WIPE SAMPLING	ABOVE CEILING		7035A FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	59	UG/FT2	200
SID13308-03	23-APR-2020	WIPE SAMPLING	ABOVE CEILING		7035A FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	56	UG/FT2	200
SID13308-04	23-APR-2020	WIPE SAMPLING	ABOVE CEILING		7035A FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	75	UG/FT2	200
SID13308-05	23-APR-2020	WIPE SAMPLING	ABOVE CEILING		7035A FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	71	UG/FT2	200
SID13308-06	23-APR-2020	WIPE SAMPLING	ABOVE CEILING		7035B FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	4100	UG/FT2	200
SID13308-07	23-APR-2020	WIPE SAMPLING	ABOVE CEILING		7035B FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	4700	UG/FT2	200
SID13308-08	23-APR-2020	WIPE SAMPLING	ABOVE CEILING		7035B FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	4300	UG/FT2	200
SID13308-09	23-APR-2020	WIPE SAMPLING	ABOVE CEILING		7035B FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	3800	UG/FT2	200
SID13308-10	23-APR-2020	WIPE SAMPLING	ABOVE CEILING		7035B FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	150	UG/FT2	200
SID13308-11		WIPE SAMPLING	ABOVE CEILING		7035B FIRST		66	UG/FT2	200

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
	23- APR- 2020					LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB			

Collect 100 cm<sup>2</sup> wipe samples for Be and 1 ft<sup>2</sup> wipe samples for Pb from the nearest available upward-facing surface at the locations indicated. Follow requirements in the attached BEPP in 7035A.

□ - Sampled lights

Paint Mixing



REV 1 ISSUED: 12/10

BUILDING 7035A FIRST FLOOR PLAN



REV 1 ISSUED: 12/10

Paint Storage

BUILDING 7035B FIRST FLOOR PLAN

Be SID 13307

Pb SID 13308

\* Above ceiling to roof is open w/ very limited surfaces to sample.  
 - per Tom Orr, move sample location to nearest light fixture.

- 01 light
- 02 |
- 03 |
- 04 |
- 05 |
- 06 metal bracket
- 07 " "
- 08 C-channel Beam
- 09 Light
- 10 |
- 11 |





**Wisconsin Occupational  
Health Laboratory**

WISCONSIN STATE LABORATORY OF HYGIENE  
UNIVERSITY OF WISCONSIN-MADISON

2601 Agriculture Drive  
Madison, WI 53718  
Phone: (800) 446-0403  
Fax: (608) 224-6213  
Web: wohl-lab.org

LISA BUCHNER  
OAK RIDGE NATIONAL LAB  
1 BETHEL VALLEY RD  
MS6377  
OAK RIDGE, TN 37831

**Lab Workorder ID** 502260  
**Visit/Project ID** 7035A FIRST  
**PO** 4000160193  
**Received** April 28, 2020  
**Reported** April 30, 2020  
**Report ID** 7521991  
**Previous Report IDs**

Dear LISA BUCHNER:

Enclosed are the analytical results for sample(s) received by the laboratory on April 28, 2020. All samples received were acceptable, results were not blank corrected, and all quality control met laboratory standards unless otherwise noted in the report. All results apply to the samples as received and reported concentrations were calculated with information supplied by the sample submitter.

Please contact the lab if you have any questions concerning this report.

Sincerely,

Steve Strebels, Laboratory Director

Analyst - KEVIN KAUFMAN

## Final Report

Lab ID: <b>502260001</b>	Sample ID: <b>SID13308-01</b>	Media: <b>Ghost Wipe</b>
Sampling Date: <b>4/23/2020</b>	Matrix: <b>Wipe</b>	Sampled Time:

Analyte	Method	Analysis Date	Air Volume	Reporting Limit	RESULT			Air Concentration	TWA
					Front	Rear	Total		
Lead	NIOSH 7303	4/30/2020		4.5 ug			14 ug	n/a	

Lab ID: <b>502260002</b>	Sample ID: <b>SID13308-02</b>	Media: <b>Ghost Wipe</b>
Sampling Date: <b>4/23/2020</b>	Matrix: <b>Wipe</b>	Sampled Time:

Analyte	Method	Analysis Date	Air Volume	Reporting Limit	RESULT			Air Concentration	TWA
					Front	Rear	Total		
Lead	NIOSH 7303	4/30/2020		4.5 ug			59 ug	n/a	

Lab ID: <b>502260003</b>	Sample ID: <b>SID13308-03</b>	Media: <b>Ghost Wipe</b>
Sampling Date: <b>4/23/2020</b>	Matrix: <b>Wipe</b>	Sampled Time:

Analyte	Method	Analysis Date	Air Volume	Reporting Limit	RESULT			Air Concentration	TWA
					Front	Rear	Total		
Lead	NIOSH 7303	4/30/2020		4.5 ug			56 ug	n/a	

## Final Report

Lab ID: <b>502260004</b>	Sample ID: <b>SID13308-04</b>	Media: <b>Ghost Wipe</b>
Sampling Date: <b>4/23/2020</b>	Matrix: <b>Wipe</b>	Sampled Time:

Analyte	Method	Analysis Date	Air Volume	Reporting Limit	RESULT			Air Concentration	TWA
					Front	Rear	Total		
Lead	NIOSH 7303	4/30/2020		4.5 ug			75 ug	n/a	

Lab ID: <b>502260005</b>	Sample ID: <b>SID13308-05</b>	Media: <b>Ghost Wipe</b>
Sampling Date: <b>4/23/2020</b>	Matrix: <b>Wipe</b>	Sampled Time:

Analyte	Method	Analysis Date	Air Volume	Reporting Limit	RESULT			Air Concentration	TWA
					Front	Rear	Total		
Lead	NIOSH 7303	4/30/2020		4.5 ug			71 ug	n/a	

Lab ID: <b>502260006</b>	Sample ID: <b>SID13308-06</b>	Media: <b>Ghost Wipe</b>
Sampling Date: <b>4/23/2020</b>	Matrix: <b>Wipe</b>	Sampled Time:

Reporting level for this sample is 225 ug/sample.

Analyte	Method	Analysis Date	Air Volume	Reporting Limit	RESULT			Air Concentration	TWA
					Front	Rear	Total		
Lead	NIOSH 7303	4/30/2020		4.5 ug			4100 ug	n/a	

## Final Report

Lab ID: **502260007**

Sample ID: **SID13308-07**

Media: **Ghost Wipe**

Sampling Date: **4/23/2020**

Matrix: **Wipe**

Sampled Time:

Reporting level for this sample is 90 ug/sample.

Analyte	Method	Analysis Date	Air Volume	Reporting Limit	RESULT			Air Concentration	TWA
					Front	Rear	Total		
Lead	NIOSH 7303	4/30/2020		4.5 ug			4700 ug	n/a	

Lab ID: **502260008**

Sample ID: **SID13308-08**

Media: **Ghost Wipe**

Sampling Date: **4/23/2020**

Matrix: **Wipe**

Sampled Time:

Reporting level for this sample is 90 ug/sample.

Analyte	Method	Analysis Date	Air Volume	Reporting Limit	RESULT			Air Concentration	TWA
					Front	Rear	Total		
Lead	NIOSH 7303	4/30/2020		4.5 ug			4300 ug	n/a	

Lab ID: **502260009**

Sample ID: **SID13308-09**

Media: **Ghost Wipe**

Sampling Date: **4/23/2020**

Matrix: **Wipe**

Sampled Time:

Reporting level for this sample is 90 ug/sample.

Analyte	Method	Analysis Date	Air Volume	Reporting Limit	RESULT			Air Concentration	TWA
					Front	Rear	Total		
Lead	NIOSH 7303	4/30/2020		4.5 ug			3800 ug	n/a	

## Final Report

Lab ID: <b>502260010</b>	Sample ID: <b>SID13308-10</b>	Media: <b>Ghost Wipe</b>
Sampling Date: <b>4/23/2020</b>	Matrix: <b>Wipe</b>	Sampled Time:

Analyte	Method	Analysis Date	Air Volume	Reporting Limit	RESULT			Air Concentration	TWA
					Front	Rear	Total		
Lead	NIOSH 7303	4/30/2020		4.5 ug			150 ug	n/a	

Lab ID: <b>502260011</b>	Sample ID: <b>SID13308-11</b>	Media: <b>Ghost Wipe</b>
Sampling Date: <b>4/23/2020</b>	Matrix: <b>Wipe</b>	Sampled Time:

Analyte	Method	Analysis Date	Air Volume	Reporting Limit	RESULT			Air Concentration	TWA
					Front	Rear	Total		
Lead	NIOSH 7303	4/30/2020		4.5 ug			66 ug	n/a	

Lab ID: <b>502260012</b>	Sample ID: <b>SID13308-12</b>	Media: <b>Ghost Wipe</b>
Sampling Date: <b>4/23/2020</b>	Matrix: <b>Wipe</b>	Sampled Time:

Analyte	Method	Analysis Date	Air Volume	Reporting Limit	RESULT			Air Concentration	TWA
					Front	Rear	Total		
Lead	NIOSH 7303	4/30/2020		4.5 ug			<4.5 ug	n/a	

## Final Report

Lab ID: <b>502260013</b>	Sample ID: <b>SID13308-13</b>	Media: <b>Ghost Wipe</b>
Sampling Date: <b>4/23/2020</b>	Matrix: <b>Wipe</b>	Sampled Time:

Analyte	Method	Analysis Date	Air Volume	Reporting Limit	RESULT			TWA
					Front	Rear	Total	
Lead	NIOSH 7303	4/30/2020		4.5 ug			<4.5 ug	n/a

### Abbreviations:

mg = milligrams                      ppm or ppmv = parts per million                      /m3 = per cubic meter  
 ug = micrograms                      ppb or ppbv = parts per billion                      ng = nanograms  
 < Less Than. The analyte, if present, is at a level too low to be accurately quantitated by the method used

## End of Analytical Report

The results in this report apply only to the samples, specifically listed above, and tested at the Wisconsin Occupational Health Laboratory

This report is not to be reproduced except in its entirety

## Survey Profile Report - Survey Coversheet

Survey ID: **SID13310**  
Status: **OPEN**  
Survey **PB**  
Title: **WIPES\_FLOOR\_7035A\_7035B\_4.23.2020**  
Survey Date: **23-APR-2020**  
Location: **7035A FIRST**  
IH-Safety officer: **ORR,THOMAS (00029740)**  
Primary Sampler: **CUETO,ERIK (00694595)**

### Request Description

#### Description of and Purpose for Sampling:

Determine if lead contamination is present on the floor. Survey supports planning for CRSF-related demolition project. The buildings are currently occupied, but are scheduled to be vacated for demolition by the end of the year.

#### Description of Sample Equipment and Placement While Sampling:

See diagram for sample location. Ghost Wipes Lot# 04C1 041119 EX1022

Sample Rationale: **FACILITY CHARACTERIZATION**

### Analytical Method

Sampling Matrix/Device: GHOST WIPES

Sampling Method: METALS\_SURFACE/IOP O1-12.5

#### Description of Analysis Requested (for lab personnel)

LEAD

### Other

Characterization Status: **CHARACTERIZATION COMPLETE, NO EXCEEDENCES**

Characterization Category: **FLOOR**

## Survey Discussion

### Discussion of Results, Expectations and History

The average of the 11 sample results was 51 ug/ft2 -- well under the ORNL Recommended Clearance Limits for both types of areas. Lead controls are not required for casual access.

### Survey Conclusions and Comments

Both buildings were constructed in 1977. Floor surfaces in both buildings were combined into one survey area based on common use over time as paint storage and mixing areas. Visual Sample Plan was used to select random locations for samples within the survey area. The average of all sample results will be compared to the ORNL Recommended Clearance Limits for non-lead work areas and D&D areas (200 and 500 ug/ft2) to determine if the floors are contaminated with lead.

### Recommendations to Workers and Management

None

## Blanks/Controls

Sample	Analyzed agent	Result	Unit	Comments
SID13310-12	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<4.5	UG	
SID13310-13	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<4.5	UG	

## Survey Attachments

	Description of Attachment	
<a href="#">View/Download</a>	Lab Report	OrrSID13310.pdf
<a href="#">View/Download</a>	IH Sampling Request	IH Sample Request - 7035A and B_Be, Pb_Floor.pdf
<a href="#">View/Download</a>	Survey Report	Survey Report - SID13310.pdf
<a href="#">View/Download</a>	Green Tag.pdf	Green Tag.pdf
<a href="#">View/Download</a>	SID13309_13310_Sample Diagram.pdf	SID13309_13310_Sample Diagram.pdf

## Tracking

Sample Date (or start) **23-APR-2020**

Dates Results Received from Lab: **01-MAY-2020**

Date Survey Report Sent: **07-MAY-2020**



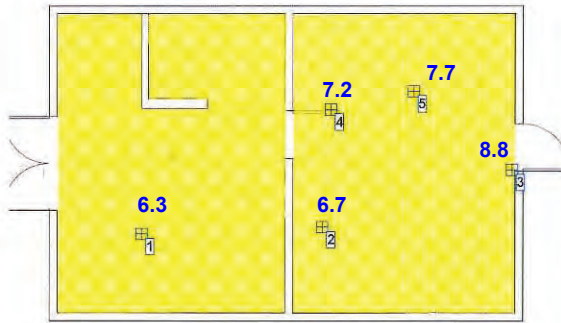
**Sample results list**

<b>Sample ID</b>	<b>Date</b>	<b>Assessment</b>	<b>Result Type</b>	<b>AU ID</b>	<b>Location</b>	<b>Agent</b>	<b>Result</b>	<b>Unit</b>	<b>OEL</b>
SID13310-01	23-APR-2020	WIPE SAMPLING	FLOOR		7035A FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	6.3	UG/FT2	200
SID13310-02	23-APR-2020	WIPE SAMPLING	FLOOR		7035A FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	6.7	UG/FT2	200
SID13310-03	23-APR-2020	WIPE SAMPLING	FLOOR		7035A FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	8.8	UG/FT2	200
SID13310-04	23-APR-2020	WIPE SAMPLING	FLOOR		7035A FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	7.2	UG/FT2	200
SID13310-05	23-APR-2020	WIPE SAMPLING	FLOOR		7035A FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	7.7	UG/FT2	200
SID13310-06	23-APR-2020	WIPE SAMPLING	FLOOR		7035B FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	63	UG/FT2	200
SID13310-07	23-APR-2020	WIPE SAMPLING	FLOOR		7035B FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	48	UG/FT2	200
SID13310-08	23-APR-2020	WIPE SAMPLING	FLOOR		7035B FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	20	UG/FT2	200
SID13310-09	23-APR-2020	WIPE SAMPLING	FLOOR		7035B FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	27	UG/FT2	200
SID13310-10	23-APR-2020	WIPE SAMPLING	FLOOR		7035B FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	43	UG/FT2	200
SID13310-11	23-APR-2020	WIPE SAMPLING	FLOOR		7035B FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	66	UG/FT2	200

Floor

Collect 100 cm<sup>2</sup> wipe samples for Be and 1 ft<sup>2</sup> wipe samples for Pb from the nearest available floor surface at the locations indicated.

Be SID 13309  
Pb SID 13310



REV 1 ISSUED: 12/10

BUILDING 2035A FIRST FLOOR PLAN



REV 1 ISSUED: 12/10

BUILDING 2035B FIRST FLOOR PLAN



**Wisconsin Occupational  
Health Laboratory**

WISCONSIN STATE LABORATORY OF HYGIENE  
UNIVERSITY OF WISCONSIN-MADISON

2601 Agriculture Drive  
Madison, WI 53718  
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LISA BUCHNER  
OAK RIDGE NATIONAL LAB  
1 BETHEL VALLEY RD  
MS6377  
OAK RIDGE, TN 37831

**Lab Workorder ID** 502261  
**Visit/Project ID** 7035A FIRST  
**PO** 4000160193  
**Received** April 28, 2020  
**Reported** April 30, 2020  
**Report ID** 7522020  
**Previous Report IDs**

Dear LISA BUCHNER:

Enclosed are the analytical results for sample(s) received by the laboratory on April 28, 2020. All samples received were acceptable, results were not blank corrected, and all quality control met laboratory standards unless otherwise noted in the report. All results apply to the samples as received and reported concentrations were calculated with information supplied by the sample submitter.

Please contact the lab if you have any questions concerning this report.

Sincerely,

Steve Strebels, Laboratory Director

Analyst - KEVIN KAUFMAN

## Final Report

Lab ID: <b>502261001</b>	Sample ID: <b>SID13310-01</b>	Media: <b>Ghost Wipe</b>
Sampling Date: <b>4/23/2020</b>	Matrix: <b>Wipe</b>	Sampled Time:

Analyte	Method	Analysis Date	Air Volume	Reporting Limit	RESULT			Air Concentration	TWA
					Front	Rear	Total		
Lead	NIOSH 7303	4/30/2020		4.5 ug			6.3 ug	n/a	

Lab ID: <b>502261002</b>	Sample ID: <b>SID13310-02</b>	Media: <b>Ghost Wipe</b>
Sampling Date: <b>4/23/2020</b>	Matrix: <b>Wipe</b>	Sampled Time:

Analyte	Method	Analysis Date	Air Volume	Reporting Limit	RESULT			Air Concentration	TWA
					Front	Rear	Total		
Lead	NIOSH 7303	4/30/2020		4.5 ug			6.7 ug	n/a	

Lab ID: <b>502261003</b>	Sample ID: <b>SID13310-03</b>	Media: <b>Ghost Wipe</b>
Sampling Date: <b>4/23/2020</b>	Matrix: <b>Wipe</b>	Sampled Time:

Analyte	Method	Analysis Date	Air Volume	Reporting Limit	RESULT			Air Concentration	TWA
					Front	Rear	Total		
Lead	NIOSH 7303	4/30/2020		4.5 ug			8.8 ug	n/a	

## Final Report

Lab ID: <b>502261004</b>	Sample ID: <b>SID13310-04</b>	Media: <b>Ghost Wipe</b>
Sampling Date: <b>4/23/2020</b>	Matrix: <b>Wipe</b>	Sampled Time:

Analyte	Method	Analysis Date	Air Volume	Reporting Limit	RESULT			Air Concentration	TWA
					Front	Rear	Total		
Lead	NIOSH 7303	4/30/2020		4.5 ug			7.2 ug	n/a	

Lab ID: <b>502261005</b>	Sample ID: <b>SID13310-05</b>	Media: <b>Ghost Wipe</b>
Sampling Date: <b>4/23/2020</b>	Matrix: <b>Wipe</b>	Sampled Time:

Analyte	Method	Analysis Date	Air Volume	Reporting Limit	RESULT			Air Concentration	TWA
					Front	Rear	Total		
Lead	NIOSH 7303	4/30/2020		4.5 ug			7.7 ug	n/a	

Lab ID: <b>502261006</b>	Sample ID: <b>SID13310-06</b>	Media: <b>Ghost Wipe</b>
Sampling Date: <b>4/23/2020</b>	Matrix: <b>Wipe</b>	Sampled Time:

Analyte	Method	Analysis Date	Air Volume	Reporting Limit	RESULT			Air Concentration	TWA
					Front	Rear	Total		
Lead	NIOSH 7303	4/30/2020		4.5 ug			63 ug	n/a	

## Final Report

Lab ID: <b>502261007</b>	Sample ID: <b>SID13310-07</b>	Media: <b>Ghost Wipe</b>
Sampling Date: <b>4/23/2020</b>	Matrix: <b>Wipe</b>	Sampled Time:

Analyte	Method	Analysis Date	Air Volume	Reporting Limit	RESULT			Air Concentration	TWA
					Front	Rear	Total		
Lead	NIOSH 7303	4/30/2020		4.5 ug			48 ug	n/a	

Lab ID: <b>502261008</b>	Sample ID: <b>SID13310-08</b>	Media: <b>Ghost Wipe</b>
Sampling Date: <b>4/23/2020</b>	Matrix: <b>Wipe</b>	Sampled Time:

Analyte	Method	Analysis Date	Air Volume	Reporting Limit	RESULT			Air Concentration	TWA
					Front	Rear	Total		
Lead	NIOSH 7303	4/30/2020		4.5 ug			20 ug	n/a	

Lab ID: <b>502261009</b>	Sample ID: <b>SID13310-09</b>	Media: <b>Ghost Wipe</b>
Sampling Date: <b>4/23/2020</b>	Matrix: <b>Wipe</b>	Sampled Time:

Analyte	Method	Analysis Date	Air Volume	Reporting Limit	RESULT			Air Concentration	TWA
					Front	Rear	Total		
Lead	NIOSH 7303	4/30/2020		4.5 ug			27 ug	n/a	

## Final Report

Lab ID: <b>502261010</b>	Sample ID: <b>SID13310-10</b>	Media: <b>Ghost Wipe</b>
Sampling Date: <b>4/23/2020</b>	Matrix: <b>Wipe</b>	Sampled Time:

Analyte	Method	Analysis Date	Air Volume	Reporting Limit	RESULT			Air Concentration	TWA
					Front	Rear	Total		
Lead	NIOSH 7303	4/30/2020		4.5 ug			43 ug	n/a	

Lab ID: <b>502261011</b>	Sample ID: <b>SID13310-11</b>	Media: <b>Ghost Wipe</b>
Sampling Date: <b>4/23/2020</b>	Matrix: <b>Wipe</b>	Sampled Time:

Analyte	Method	Analysis Date	Air Volume	Reporting Limit	RESULT			Air Concentration	TWA
					Front	Rear	Total		
Lead	NIOSH 7303	4/30/2020		4.5 ug			66 ug	n/a	

Lab ID: <b>502261012</b>	Sample ID: <b>SID13310-12</b>	Media: <b>Ghost Wipe</b>
Sampling Date: <b>4/23/2020</b>	Matrix: <b>Wipe</b>	Sampled Time:

Analyte	Method	Analysis Date	Air Volume	Reporting Limit	RESULT			Air Concentration	TWA
					Front	Rear	Total		
Lead	NIOSH 7303	4/30/2020		4.5 ug			<4.5 ug	n/a	

## Final Report

Lab ID: <b>502261013</b>	Sample ID: <b>SID13310-13</b>	Media: <b>Ghost Wipe</b>
Sampling Date: <b>4/23/2020</b>	Matrix: <b>Wipe</b>	Sampled Time:

Analyte	Method	Analysis Date	Air Volume	Reporting Limit	RESULT			TWA
					Front	Rear	Total	
Lead	NIOSH 7303	4/30/2020		4.5 ug			<4.5 ug	n/a

### Abbreviations:

mg = milligrams                      ppm or ppmv = parts per million                      /m3 = per cubic meter  
 ug = micrograms                      ppb or ppbv = parts per billion                      ng = nanograms  
 < Less Than. The analyte, if present, is at a level too low to be accurately quantitated by the method used

## End of Analytical Report

The results in this report apply only to the samples, specifically listed above, and tested at the Wisconsin Occupational Health Laboratory

This report is not to be reproduced except in its entirety



## Survey Profile Report - Survey Coversheet

Survey ID: **SID13350**  
Status: **OPEN**  
Survey Title: **PB WIPES\_ABOVE-CEILING\_7035C\_05/07/2020**  
Survey Date: **07-MAY-2020**  
Location: **7035C FIRST**  
IH-Safety officer: **ORR,THOMAS (00029740)**  
Primary Sampler: **MASSARO,REBEKKAH (03077143)**

### Request Description

#### Description of and Purpose for Sampling:

Determine if lead contamination is present on elevated surfaces above the suspended ceiling. Survey supports planning for CRSF-related demolition.

#### Description of Sample Equipment and Placement While Sampling:

See attached map  
Lot 301D

#### Description of Sampling Method:

Wipe Sampling

Sample Rationale: **FACILITY CHARACTERIZATION**

### Analytical Method

Sampling Matrix/Device: GHOST WIPES

Sampling Method: METALS\_SURFACE/IOP O1-12.5

#### Description of Analysis Requested (for lab personnel)

LEAD

Other

Characterization Status: **CHARACTERIZATION COMPLETE, NO EXCEEDENCES**

Characterization Category: **ABV CEILING/SUSPEND**

### Survey Discussion

Discussion of Results, Expectations and History

The average of the 11 sample results was 5.1 ug/ft2 -- well under the ORNL Recommended Clearance Limits for both types of areas. Lead controls are not required to access and work above the ceiling.

### Survey Conclusions and Comments

Visual Sample Plan was used to select random locations for samples within the survey area. The average of all sample results will be compared to the ORNL Recommended Clearance Limits for non-lead work areas and D&D areas (200 and 500 ug/ft2) to determine if the area above the ceiling is contaminated with lead. 1 ft2 wipe samples were collected from available upward-facing surfaces at or near the selected locations above the suspended ceiling.

### Recommendations to Workers and Management

None

### Blanks/Controls

Sample	Analyzed agent	Result	Unit	Comments
SID13350-12	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<3.8	UG	LEAD
SID13350-13	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<3.8	UG	LEAD

### Survey Attachments

	Description of Attachment	
<a href="#">View/Download</a>	IH Sample Request - 7035C_Be Pb_Above Ceiling.pdf	IH Sample Request - 7035C_Be Pb_Above Ceiling.pdf
<a href="#">View/Download</a>	Lab Report	OrrSID13350.pdf
<a href="#">View/Download</a>	7035C Map.pdf	7035C Map.pdf

### Tracking

Sample Date (or start) **07-MAY-2020**

Sent to Lab **07-MAY-2020**

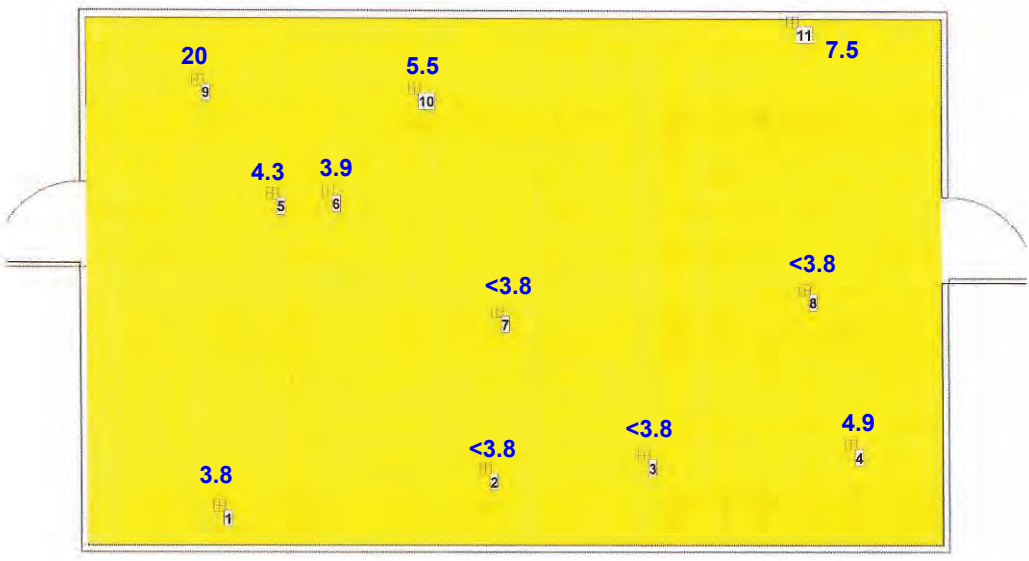
Dates Results Received from Lab: **15-MAY-2020**

### Sample results list

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
SID13350-01	07-MAY-2020	WIPE SAMPLING	ABOVE CEILING		7035C	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	3.8	UG/FT2	200
SID13350-02	07-MAY-2020	WIPE SAMPLING	ABOVE CEILING		7035C	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<3.8	UG/FT2	200
SID13350-03	07-MAY-2020	WIPE SAMPLING	ABOVE CEILING		7035C	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<3.8	UG/FT2	200
SID13350-04	07-MAY-2020	WIPE SAMPLING	ABOVE CEILING		7035C	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	4.9	UG/FT2	200
SID13350-05	07-MAY-2020	WIPE SAMPLING	ABOVE CEILING		7035C	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	4.3	UG/FT2	200
SID13350-06	07-MAY-2020	WIPE SAMPLING	ABOVE CEILING		7035C	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	3.9	UG/FT2	200
SID13350-07	07-MAY-2020	WIPE SAMPLING	ABOVE CEILING		7035C	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<3.8	UG/FT2	200
SID13350-08	07-MAY-2020	WIPE SAMPLING	ABOVE CEILING		7035C	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<3.8	UG/FT2	200
SID13350-09	07-MAY-2020	WIPE SAMPLING	ABOVE CEILING		7035C	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	20	UG/FT2	200
SID13350-10	07-MAY-2020	WIPE SAMPLING	ABOVE CEILING		7035C	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	5.5	UG/FT2	200
SID13350-11	07-MAY-2020	WIPE SAMPLING	ABOVE CEILING		7035C	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	7.5	UG/FT2	200

Collect 100 cm<sup>2</sup> wipe samples for Be and 1 ft<sup>2</sup> wipe samples for Pb from the nearest available upward-facing surface above the suspended ceiling at the locations indicated. Follow requirements in the attached BEPP.

Be SID WJZ/SK/1  
 SID13350 Pb SID WJZ/SK/1



REV 1 ISSUED: 12/10

BUILDING 7035C FIRST FLOOR PLAN

Be Pb Be Pb

- |                        |                  |                      |                  |
|------------------------|------------------|----------------------|------------------|
| #01 - conduit          | conduit          | #07 metal suspension | metal suspension |
| #02 - metal strut      | metal strut      | #08 METAL SUSPENSION | metal susp.      |
| #03 - metal suspension | metal suspension | #09 top of light     | top of light     |
| #04 - top of light     | top of light     | #10 Conduit          | conduit          |
| #05 - Conduit          | conduit          | #11 TOP OF LIGHT     | TOP OF LIGHT     |
| #06 - metal suspension | metal suspension |                      |                  |



# Analytical Report

Safety Services Division  
Industrial Hygiene  
Analytical Laboratory

Orr, Tom

Batch: 8626

Location: 7035C FIRST

Received Date: 5/7/2020

Analysis Date: 5/12/2020

Report Date: 5/15/2020

Sample ID	Analyte	Result	Units	Comments
SID13350-01	Lead Wipe	3.8	ug	
SID13350-02	Lead Wipe	<3.8	ug	
SID13350-03	Lead Wipe	<3.8	ug	
SID13350-04	Lead Wipe	4.9	ug	
SID13350-05	Lead Wipe	4.3	ug	
SID13350-06	Lead Wipe	3.9	ug	
SID13350-07	Lead Wipe	<3.8	ug	
SID13350-08	Lead Wipe	<3.8	ug	
SID13350-09	Lead Wipe	20	ug	
SID13350-10	Lead Wipe	5.5	ug	
SID13350-11	Lead Wipe	7.5	ug	
SID13350-12	Lead Wipe	<3.8	ug	
SID13350-13	Lead Wipe	<3.8	ug	

**Reporting Level**

Lead Wipe 3.8 ug

**Laboratory:** IHAL

**Method:** IOP 01-26.20

Note: Samples were received in good condition unless otherwise noted. Results are not blank corrected unless otherwise noted. Results relate only to the items tested.

Approved By: Crystal R Hoffmann

Date: 5/15/20

Crystal R. Hoffmann  
Industrial Hygiene Laboratory Manager

## Survey Profile Report - Survey Coversheet

Survey ID: **SID13351**  
Status: **OPEN**  
Survey Title: **PB\_WIPES\_FLOOR\_7035C\_05/07/2020**  
Survey Date: **07-MAY-2020**  
Location: **7035C FIRST**  
IH-Safety officer: **ORR, THOMAS (00029740)**  
Primary Sampler: **LINER, MIRANDA (03084423)**

## Request Description

### Description of and Purpose for Sampling:

Determine if lead contamination is present on the floor.  
Survey supports planning for CRSF-related Demolition Project.

### Description of Sample Equipment and Placement While Sampling:

See attached map for sample locations.  
Lot#: 301D

Sample Rationale: **FACILITY CHARACTERIZATION**

## Analytical Method

Sampling Matrix/Device: GHOST WIPES

Sampling Method: METALS\_SURFACE/IOP O1-12.5

### Description of Analysis Requested (for lab personnel)

Lead

## Workplace Conditions

### Workplace and Operation Description (overview of the area or process)

Building categorized as a storage area. However, at the time of sampling it was used as office space.

Workplace Conditions

Office-Hallway

Other

Characterization Status: **CHARACTERIZATION COMPLETE, NO EXCEEDENCES**

Characterization Category: **FLOOR**

### Survey Discussion

#### Discussion of Results, Expectations and History

The results of all eleven samples were well under the ORNL recommended clearance limit level for non-lead areas (200 ug/ft<sup>2</sup>). Nine of the eleven results were less than the laboratory reporting limit (3.8 ug) making the data set severely censored. Instead of attempting to calculate the mean/average, a nonparametric method for decision making (Hewitt) from this severely censored data set determined that we can be nearly 100% confident that the 95th percentile is less than the clearance limit level. Lead controls are not required to access this building.

#### Survey Conclusions and Comments

Visual Sample Plan (VSP) was used to randomly select locations for the samples. 1 ft<sup>2</sup> wipe samples were collected from the available floor surface at or near the selected locations.

#### Recommendations to Workers and Management

None

### Blanks/Controls

Sample	Analyzed agent	Result	Unit	Comments
SID13351-12	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<3.8	UG	Lead
SID13351-13	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<3.8	UG	Lead

### Survey Attachments

	Description of Attachment	
<a href="#">View/Download</a>	Lab Report	OrrSID13351.pdf
<a href="#">View/Download</a>	Decision making method from severely-censored data sets	NP_method_for_SevereCensoring-SID13351.pdf
<a href="#">View/Download</a>	SID13351 Survey Request Form w/ Sample Locations	SID13351 Sample Request Form (Lead).pdf

## Tracking

Sample Date (or start) **07-MAY-2020**Sent to Lab **07-MAY-2020**Dates Results Received from Lab: **15-MAY-2020****Sample results list**

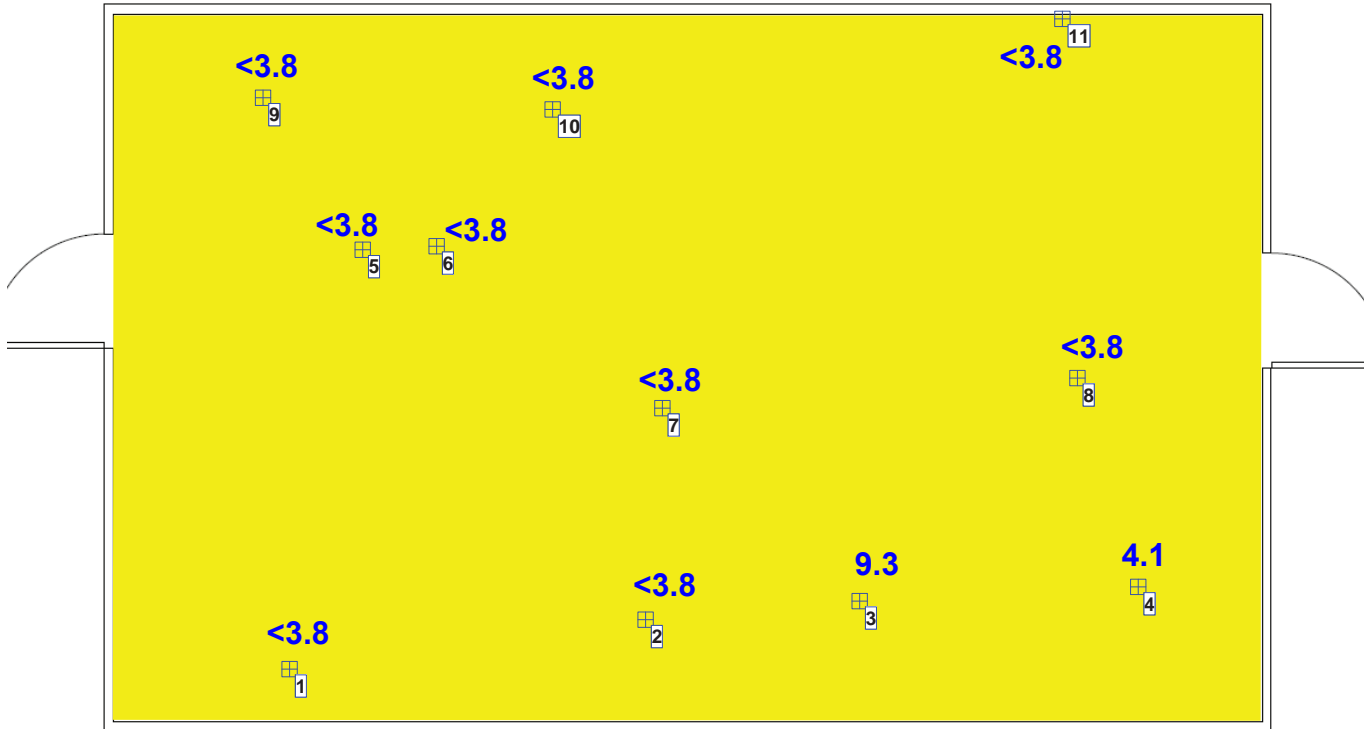
Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
SID13351-01	07-MAY-2020	WIPE SAMPLING	FLOOR		7035C FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<3.8	UG/FT2	200
SID13351-02	07-MAY-2020	WIPE SAMPLING	FLOOR		7035C FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<3.8	UG/FT2	200
SID13351-03	07-MAY-2020	WIPE SAMPLING	FLOOR		7035C FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	9.3	UG/FT2	200
SID13351-04	07-MAY-2020	WIPE SAMPLING	FLOOR		7035C FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	4.1	UG/FT2	200
SID13351-05	07-MAY-2020	WIPE SAMPLING	FLOOR		7035C FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<3.8	UG/FT2	200
SID13351-06	07-MAY-2020	WIPE SAMPLING	FLOOR		7035C FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<3.8	UG/FT2	200
SID13351-07	07-MAY-2020	WIPE SAMPLING	FLOOR		7035C FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<3.8	UG/FT2	200
SID13351-08	07-MAY-2020	WIPE SAMPLING	FLOOR		7035C FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<3.8	UG/FT2	200
SID13351-09	07-MAY-2020	WIPE SAMPLING	FLOOR		7035C FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<3.8	UG/FT2	200
SID13351-10	07-MAY-2020	WIPE SAMPLING	FLOOR		7035C FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<3.8	UG/FT2	200
SID13351-11	07-MAY-2020	WIPE SAMPLING	FLOOR		7035C FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<3.8	UG/FT2	200



Collect 1 ft<sup>2</sup> wipe samples for Pb from the nearest available floor surface at the locations indicated.

Be SID \_\_\_\_\_

Pb SID 13351



REV 1 ISSUED: 12/10

BUILDING 7035C FIRST FLOOR PLAN



# Analytical Report

Safety Services Division  
Industrial Hygiene  
Analytical Laboratory

Orr, Tom

Batch: 8623

Location: 7035C FIRST

Received Date: 5/7/2020

Analysis Date: 5/12/2020

Report Date: 5/15/2020

Sample ID	Analyte	Result	Units	Comments
SID13351-01	Lead Wipe	<3.8	ug	
SID13351-02	Lead Wipe	<3.8	ug	
SID13351-03	Lead Wipe	9.3	ug	
SID13351-04	Lead Wipe	4.1	ug	
SID13351-05	Lead Wipe	<3.8	ug	
SID13351-06	Lead Wipe	<3.8	ug	
SID13351-07	Lead Wipe	<3.8	ug	
SID13351-08	Lead Wipe	<3.8	ug	
SID13351-09	Lead Wipe	<3.8	ug	
SID13351-10	Lead Wipe	<3.8	ug	
SID13351-11	Lead Wipe	<3.8	ug	
SID13351-12	Lead Wipe	<3.8	ug	
SID13351-13	Lead Wipe	<3.8	ug	

### Reporting Level

Lead Wipe 3.8 ug

Laboratory: IHAL

Method: IOP 01-26.20

Note: Samples were received in good condition unless otherwise noted. Results are not blank corrected unless otherwise noted. Results relate only to the items tested.

Approved By: Crystal R. Hoffmann

Date: 5/15/20

Crystal R. Hoffmann  
Industrial Hygiene Laboratory Manager

## Survey Profile Report - Survey Coversheet

Survey ID: **SID13378**  
Status: **OPEN**  
Survey Title: **PB\_WIPE\_ABOVE**  
**CEILING\_7035E\_05/12/2020**  
Survey Date: **12-MAY-2020**  
Location: **7035E**  
IH-Safety officer: **ORR,THOMAS (00029740)**  
Primary Sampler: **LINER,MIRANDA (03084423)**

### Request Description

#### Description of and Purpose for Sampling:

Determine if lead contamination is present on elevated surfaces above suspended ceiling. Survey supports planning for CRSF-related demolition project.

#### Description of Sample Equipment and Placement While Sampling:

See attached map for sample locations.  
Lot#: 301D

Sample Rationale: **FACILITY CHARACTERIZATION**

### Analytical Method

Sampling Matrix/Device: GHOST WIPES

Sampling Method: METALS\_SURFACE/IOP O1-12.5

#### Description of Analysis Requested (for lab personnel)

Lead

### Other

Characterization Status: **CHARACTERIZATION COMPLETE, EXCEEDENCES**

Characterization Category: **ABV CEILING/SUSPEND**

## Survey Discussion

### Discussion of Results, Expectations and History

The average of the 11 sample results was 790 ug/ft<sup>2</sup> -- well over the ORNL recommended clearance limit for surface lead for both types of areas. Six of the eleven samples with elevated results came from steel ceiling/roof members. Removable lead-based paint residue most likely accounts for these elevated results. The other samples with acceptable results were collected from the tops of conduit and other non-structural objects. Considering these mixed results, the amount of structural steel ceiling/roof members in the two buildings, and the clearance level being an average the survey decision is that the above ceiling area is contaminated with lead.

### Survey Conclusions and Comments

Visual Sample Plan was used to select random locations for samples within the survey area. The building has been vacated and is not currently in use. The average of all sample results will be compared to the ORNL Recommended Clearance Limit for non-lead areas and D&D areas (200 and 500 ug/ft<sup>2</sup> average) to determine if the above-ceiling/elevated surfaces are contaminated with lead.

### Recommendations to Workers and Management

Appropriate lead controls are required for access to and work that disturbs elevated surfaces above the suspended ceiling in this building.

## Blanks/Controls

Sample	Analyzed agent	Result	Unit	Comments
SID13378-12	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<3.8	UG	Lead

## Survey Attachments

	Description of Attachment	
<a href="#">View/Download</a>	Lab Report	OrrSID13378.pdf
<a href="#">View/Download</a>	SID13378 Sample Request Form w/ Sample Locations	SID13378 Sample Request Form and Sample Locations.pdf

## Tracking

Sample Date (or start) **12-MAY-2020**

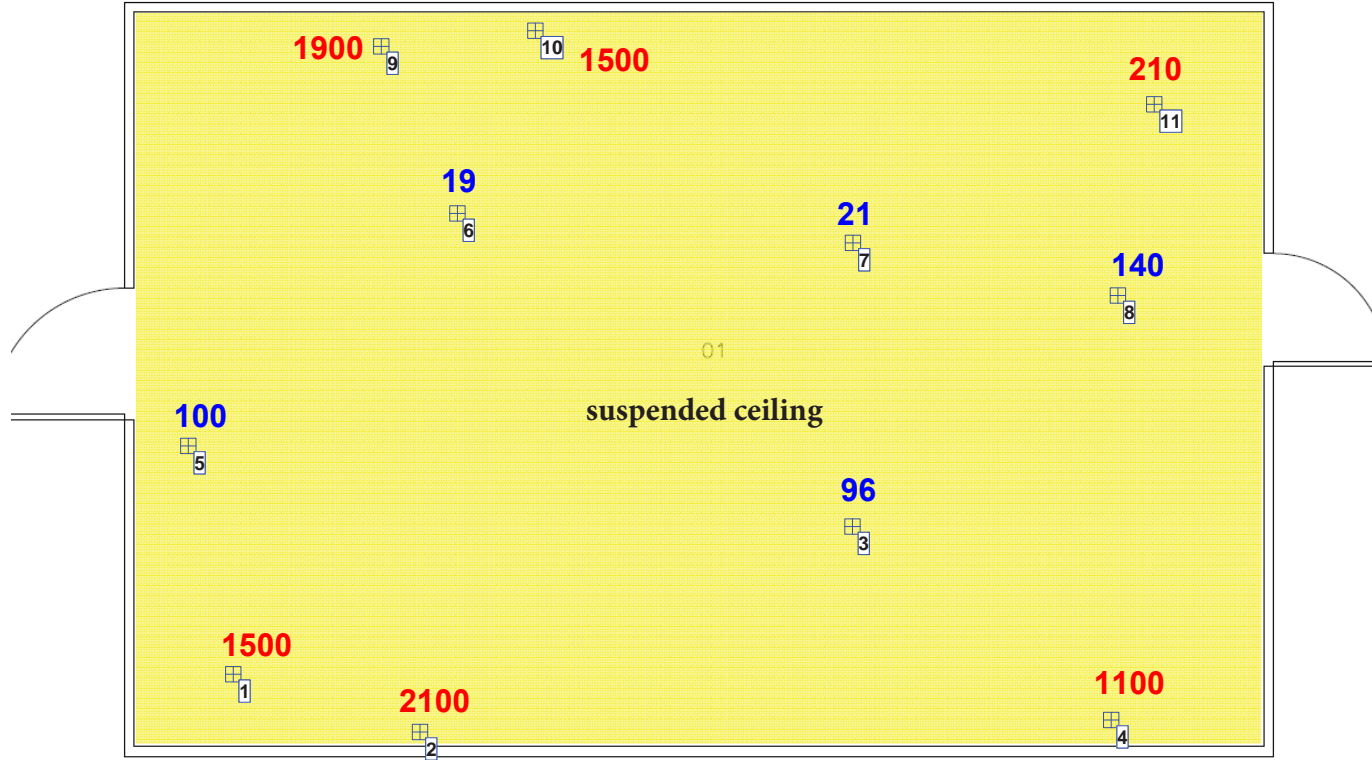
Sent to Lab **13-MAY-2020**

Dates Results Received from Lab: **21-MAY-2020**

**Sample results list**

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
SID13378-01	12-MAY-2020	WIPE SAMPLING	ABOVE CEILING		7035E	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	1500	UG/FT2	200
SID13378-02	12-MAY-2020	WIPE SAMPLING	ABOVE CEILING		7035E	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	2100	UG/FT2	200
SID13378-03	12-MAY-2020	WIPE SAMPLING	ABOVE CEILING		7035E	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	96	UG/FT2	200
SID13378-04	12-MAY-2020	WIPE SAMPLING	ABOVE CEILING		7035E	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	1100	UG/FT2	200
SID13378-05	12-MAY-2020	WIPE SAMPLING	ABOVE CEILING		7035E	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	100	UG/FT2	200
SID13378-06	12-MAY-2020	WIPE SAMPLING	ABOVE CEILING		7035E	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	19	UG/FT2	200
SID13378-07	12-MAY-2020	WIPE SAMPLING	ABOVE CEILING		7035E	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	21	UG/FT2	200
SID13378-08	12-MAY-2020	WIPE SAMPLING	ABOVE CEILING		7035E	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	140	UG/FT2	200
SID13378-09	12-MAY-2020	WIPE SAMPLING	ABOVE CEILING		7035E	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	1900	UG/FT2	200
SID13378-10	12-MAY-2020	WIPE SAMPLING	ABOVE CEILING		7035E	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	1500	UG/FT2	200
SID13378-11	12-MAY-2020	WIPE SAMPLING	ABOVE CEILING		7035E	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	210	UG/FT2	200

Collect 1 ft<sup>2</sup> wipe samples for Pb from the nearest available upward-facing surface above the suspended ceiling at the locations indicated.



REV 1 ISSUED: 12/1

BUILDING 7035E FIRST FLOOR PLAN



# Analytical Report

Safety Services Division  
Industrial Hygiene  
Analytical Laboratory

Orr, Tom

Batch: 8641

Location: 7035E

Received Date: 5/13/2020

Analysis Date: 5/19/2020

Report Date: 5/21/2020

Sample ID	Analyte	Result	Units	Comments
SID13378-01	Lead Wipe	1,500	ug	
SID13378-02	Lead Wipe	2,100	ug	
SID13378-03	Lead Wipe	96	ug	
SID13378-04	Lead Wipe	1,100	ug	
SID13378-05	Lead Wipe	100	ug	
SID13378-06	Lead Wipe	19	ug	
SID13378-07	Lead Wipe	21	ug	
SID13378-08	Lead Wipe	140	ug	
SID13378-09	Lead Wipe	1,900	ug	
SID13378-10	Lead Wipe	1,500	ug	
SID13378-11	Lead Wipe	210	ug	
SID13378-12	Lead Wipe	<3.8	ug	

**Reporting Level**

Lead Wipe 3.8 ug

**Laboratory:** IHAL

**Method:** IOP 01-26.20

Note: Samples were received in good condition unless otherwise noted. Results are not blank corrected unless otherwise noted. Results relate only to the items tested.

Approved By: Crystal R Hoffmann

Date: 5/21/20

Crystal R. Hoffmann  
Industrial Hygiene Laboratory Manager

## Survey Profile Report - Survey Coversheet

Survey ID: **SID13384**  
Status: **OPEN**  
Survey **PB**  
Title: **WIPES\_FLOOR\_7035E\_05/12/2020**  
Survey Date: **12-MAY-2020**  
Location: **7035E FIRST**  
IH-Safety officer: **ORR,THOMAS (00029740)**  
Primary Sampler: **MASSARO,REBEKKAH (03077143)**

### Request Description

#### Description of and Purpose for Sampling:

Determine if lead contamination is present on the floor. Survey supports planning for CRSF-related Demolition Project. The building has been vacated and is not currently in use.

#### Description of Sample Equipment and Placement While Sampling:

See attached map

#### Description of Sampling Method:

Wipe

Sample Rationale: **FACILITY CHARACTERIZATION**

### Analytical Method

Sampling Matrix/Device: GHOST WIPES

Sampling Method: METALS\_SURFACE/IOP O1-12.5

#### Description of Analysis Requested (for lab personnel)

Lead

### Other



Characterization Status: **CHARACTERIZATION COMPLETE, NO EXCEEDENCES**

Characterization Category: **FLOOR**

### Survey Discussion

#### Discussion of Results, Expectations and History

The average of all eleven sample results was 11 ug/ft2 -- well under the ORNL Recommended Clearance Limit for surfaces in non-lead work areas. Based on these results, lead controls are not required to access this building.

#### Survey Conclusions and Comments

Visual Sample Plan was used to randomly select locations within the survey area to collect samples. 1 ft2 wipe samples were collected at each selected location or as close as possible to each location. The average of all sample results will be compared to the ORNL Recommended Clearance Limit for non-lead work surfaces (200 ug/ft2) to determine if the floor is contaminated.

#### Recommendations to Workers and Management

None.

### Blanks/Controls

Sample	Analyzed agent	Result	Unit	Comments
SID13384-12	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<3.8	UG	Lead

### Survey Attachments

<a href="#">View/Download</a>	7035E Map.pdf	7035E Map.pdf
<a href="#">View/Download</a>	7035E request form.pdf	7035E request form.pdf
<a href="#">View/Download</a>	Lab Report	<b>Description of Attachment</b> OrrSID13384.pdf

Tracking

Sample Date (or start) **12-MAY-2020**

Sent to Lab **13-MAY-2020**

Dates Results Received from Lab: **21-MAY-2020**

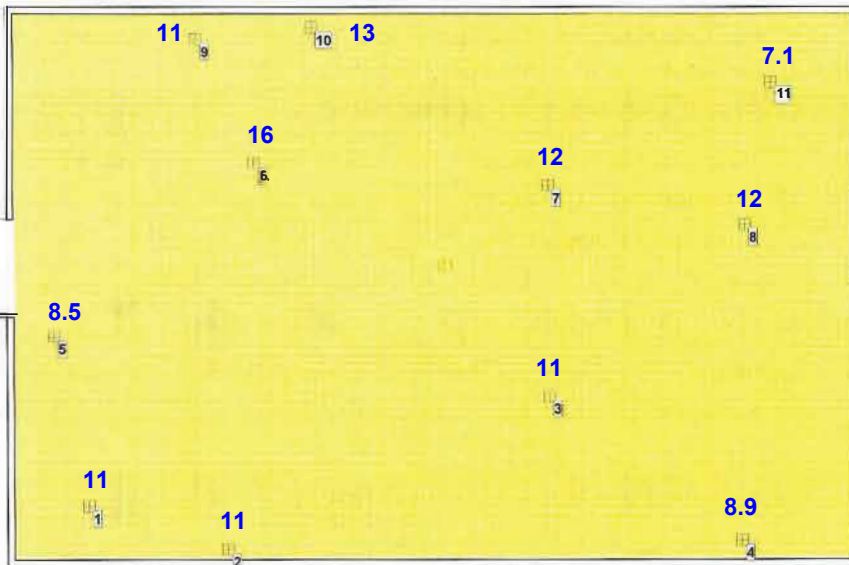
### Sample results list

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
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Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
SID13384-01	12-MAY-2020	WIPE SAMPLING	FLOOR		7035E FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	11	UG/FT2	200
SID13384-02	12-MAY-2020	WIPE SAMPLING	FLOOR		7035E FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	11	UG/FT2	200
SID13384-03	12-MAY-2020	WIPE SAMPLING	FLOOR		7035E FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	11	UG/FT2	200
SID13384-04	12-MAY-2020	WIPE SAMPLING	FLOOR		7035E FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	8.9	UG/FT2	200
SID13384-05	12-MAY-2020	WIPE SAMPLING	FLOOR		7035E FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	8.5	UG/FT2	200
SID13384-06	12-MAY-2020	WIPE SAMPLING	FLOOR		7035E FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	16	UG/FT2	200
SID13384-07	12-MAY-2020	WIPE SAMPLING	FLOOR		7035E FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	12	UG/FT2	200
SID13384-08	12-MAY-2020	WIPE SAMPLING	FLOOR		7035E FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	12	UG/FT2	200
SID13384-09	12-MAY-2020	WIPE SAMPLING	FLOOR		7035E FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	11	UG/FT2	200
SID13384-10	12-MAY-2020	WIPE SAMPLING	FLOOR		7035E FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	13	UG/FT2	200
SID13384-11	12-MAY-2020	WIPE SAMPLING	FLOOR		7035E FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	7.1	UG/FT2	200

Collect 100 cm<sup>2</sup> wipe samples for Be and 1 ft<sup>2</sup> wipe samples for Pb from the nearest available floor surface at the locations indicated.

Be SID 13383  
Pb SID 13384



REV 1 ISSUED: 12/1

BUILDING 7035E FIRST FLOOR PLAN



# Analytical Report

Safety Services Division  
Industrial Hygiene  
Analytical Laboratory

Orr, Tom

Batch: 8639

Location: 7035E FIRST

Received Date: 5/13/2020

Analysis Date: 5/19/2020

Report Date: 5/21/2020

Sample ID	Analyte	Result	Units	Comments
SID13384-01	Lead Wipe	11	ug	
SID13384-02	Lead Wipe	11	ug	
SID13384-03	Lead Wipe	11	ug	
SID13384-04	Lead Wipe	8.9	ug	
SID13384-05	Lead Wipe	8.5	ug	
SID13384-06	Lead Wipe	16	ug	
SID13384-07	Lead Wipe	12	ug	
SID13384-08	Lead Wipe	12	ug	
SID13384-09	Lead Wipe	11	ug	
SID13384-10	Lead Wipe	13	ug	
SID13384-11	Lead Wipe	7.1	ug	
SID13384-12	Lead Wipe	<3.8	ug	

**Reporting Level**

Lead Wipe 3.8 ug

**Laboratory:** IHAL

**Method:** IOP 01-26.20

Note: Samples were received in good condition unless otherwise noted. Results are not blank corrected unless otherwise noted. Results relate only to the items tested.

Approved By: Crystal R. Hoffmann

Date: 5/21/20

Crystal R. Hoffmann  
Industrial Hygiene Laboratory Manager

## Survey Profile Report - Survey Coversheet

Survey ID: **SID13376**  
Status: **OPEN**  
Survey Title: **PB\_WIPE\_SUSPENDED**  
**SURFACES\_7035F\_05/12/2020**  
Survey Date: **12-MAY-2020**  
Location: **7035F**  
IH-Safety officer: **ORR,THOMAS (00029740)**  
Primary Sampler: **LINER,MIRANDA (03084423)**

### Request Description

#### Description of and Purpose for Sampling:

Determine if lead contamination is present on elevated surfaces above floor level. Survey supports planning for CRSF-related demolition project.

#### Description of Sample Equipment and Placement While Sampling:

See attached map for sample locations.  
Lot#: 301D

Sample Rationale: **FACILITY CHARACTERIZATION**

### Analytical Method

Sampling Matrix/Device: GHOST WIPES

Sampling Method: METALS\_SURFACE/IOP O1-12.5

#### Description of Analysis Requested (for lab personnel)

Lead

### Other

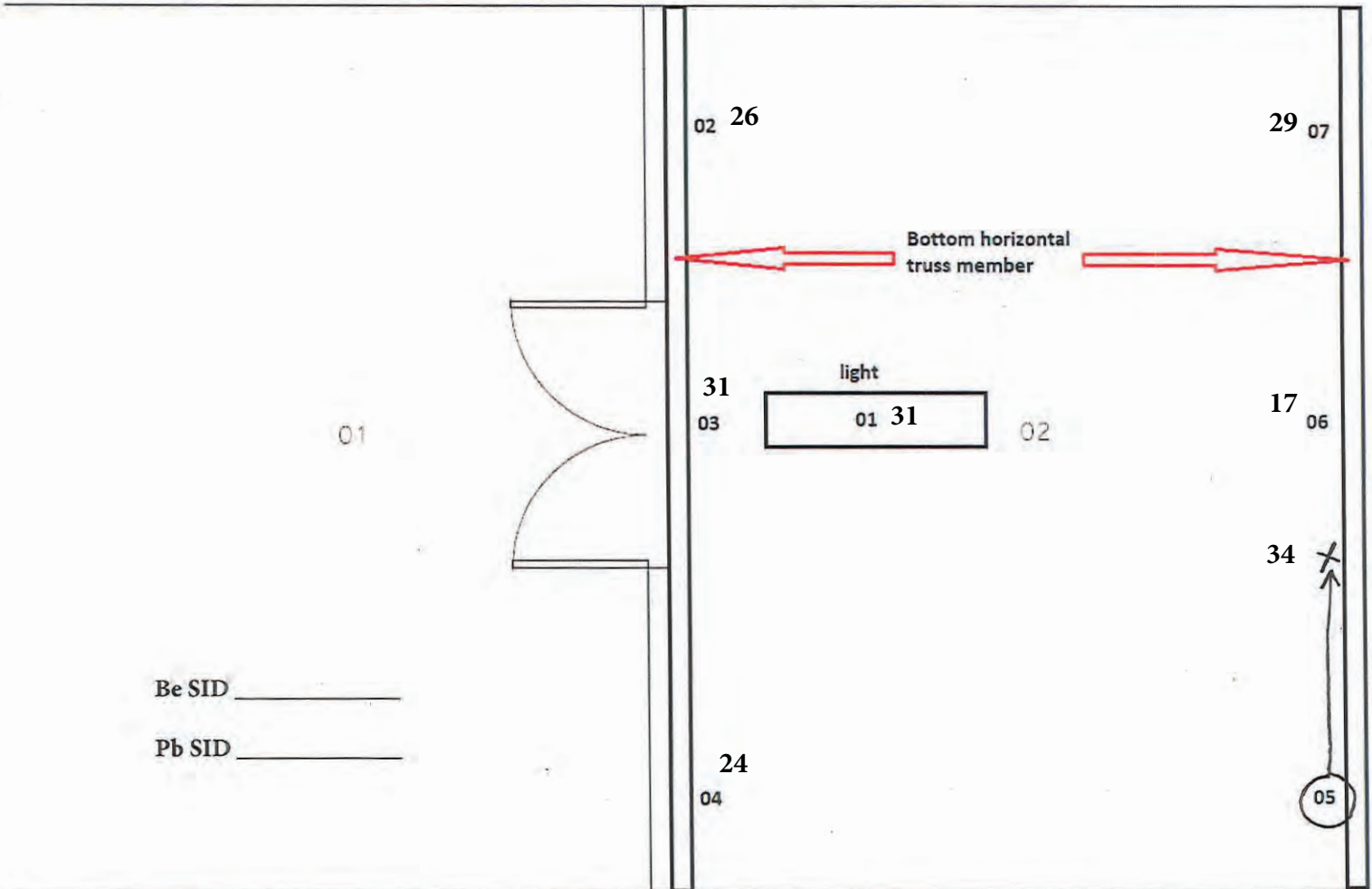
Characterization Status: **CHARACTERIZATION COMPLETE, NO EXCEEDENCES**

Characterization Category: **ABV CEILING/SUSPEND**



Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
SID13376-01	12-MAY-2020	WIPE SAMPLING	SUSPENDED SURFACE>8'		7035F	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	31	UG/FT2	200
SID13376-02	12-MAY-2020	WIPE SAMPLING	SUSPENDED SURFACE>8'		7035F	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	26	UG/FT2	200
SID13376-03	12-MAY-2020	WIPE SAMPLING	SUSPENDED SURFACE>8'		7035F	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	31	UG/FT2	200
SID13376-04	12-MAY-2020	WIPE SAMPLING	SUSPENDED SURFACE>8'		7035F	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	24	UG/FT2	200
SID13376-05	12-MAY-2020	WIPE SAMPLING	SUSPENDED SURFACE>8'		7035F	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	34	UG/FT2	200
SID13376-06	12-MAY-2020	WIPE SAMPLING	SUSPENDED SURFACE>8'		7035F	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	17	UG/FT2	200
SID13376-07	12-MAY-2020	WIPE SAMPLING	SUSPENDED SURFACE>8'		7035F	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	29	UG/FT2	200

Avg. 27 ug/ft2



Collect 100 cm2 wipe samples for Be and 1 ft2 wipe samples for Pb from the upward-facing surface locations indicated.

REV 1 ISSUED:

BUILDING 7035F FIRST FLOOR PLAN





# Analytical Report

Safety Services Division  
Industrial Hygiene  
Analytical Laboratory

Orr, Tom

Batch: 8640

Location: 7035F

Received Date: 5/13/2020

Analysis Date: 5/19/2020

Report Date: 5/21/2020

Sample ID	Analyte	Result	Units	Comments
SID13376-01	Lead Wipe	31	ug	
SID13376-02	Lead Wipe	26	ug	
SID13376-03	Lead Wipe	31	ug	
SID13376-04	Lead Wipe	24	ug	
SID13376-05	Lead Wipe	34	ug	Result reported from 4X dilution. The reporting level increased to 15ug.
SID13376-06	Lead Wipe	17	ug	
SID13376-07	Lead Wipe	29	ug	Result reported from 4X dilution. The reporting level increased to 15ug.
SID13376-08	Lead Wipe	<3.8	ug	

### Reporting Level

Lead Wipe 3.8 ug

Laboratory: IHAL

Method: IOP 01-26.20

Note: Samples were received in good condition unless otherwise noted. Results are not blank corrected unless otherwise noted. Results relate only to the items tested.

Approved By: Crystal R. Hoffmann

Date: 5/21/20

Crystal R. Hoffmann  
Industrial Hygiene Laboratory Manager

## Survey Profile Report - Survey Coversheet

Survey ID: **SID13381**  
Status: **OPEN**  
Survey **PB**  
Title: **WIPES\_FLOOR\_7035F\_05/12/2020**  
Survey Date: **12-MAY-2020**  
Location: **7035F FIRST**  
IH-Safety officer: **ORR,THOMAS (00029740)**  
Primary Sampler: **MASSARO,REBEKKAH (03077143)**

### Request Description

#### Description of and Purpose for Sampling:

Determine if lead contamination is present on the floor.

#### Description of Sample Equipment and Placement While Sampling:

See attached map

Floor in the west portion of the building had paint on it. (spills, splatter, drips)

#### Description of Sampling Method:

Wipe

Sample Rationale: **FACILITY CHARACTERIZATION**

### Analytical Method

Sampling Matrix/Device: GHOST WIPES

Sampling Method: METALS\_SURFACE/IOP O1-12.5

#### Description of Analysis Requested (for lab personnel)

LEAD

### Other

Characterization Status: **CHARACTERIZATION COMPLETE, EXCEEDENCES**

Characterization Category: **FLOOR**

### Survey Discussion

#### Discussion of Results, Expectations and History

The average of the eleven sample results was 237 ug/ft<sup>2</sup>, which slightly exceeds the clearance limit for non-lead work areas. However, results of the samples collected in the west half of the building which averaged 157 ug/ft<sup>2</sup> were quite different from the average of the samples collected in the east half which was 303 ug/ft<sup>2</sup>. Wipe sample results from elevated/suspended surfaces (SID13376) were very low indicating that airborne lead particulate that could settle on surfaces above the floor level has been minimal.

#### Survey Conclusions and Comments

Visual Sample Plan was used to randomly select locations within the survey area to collect samples. 1 ft<sup>2</sup> wipe samples were collected at each selected location or as close as possible to each location. The average of the sample results will be compared to the ORNL Recommended Clearance Limit for non-lead work surfaces (200 ug/ft<sup>2</sup>) to determine if the floor is contaminated.

#### Recommendations to Workers and Management

Post the double doors at the entrance to the room on the east side with lead warning sign. Tape off the area around the single elevated sample result in the west portion of the building and post a lead warning sign. Minimum entry requirements for these areas include lead level 1 training, shoe covers, gloves. Personnel exiting the areas must doff shoe covers and gloves at the double door or tape boundary and wash their hands as soon as possible. Dry sweeping in these areas is not allowed. Objects/equipment on the floor need to be cleaned and verified clean at the direction of SSD prior to being moved out of these areas.

### Blanks/Controls

Sample	Analyzed agent	Result	Unit	Comments
SID13381-12	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<3.8	UG	Lead

### Survey Attachments

	Description of Attachment	
<a href="#">View/Download</a>	7035F Map.pdf	7035F Map.pdf
<a href="#">View/Download</a>	7035F Request Form.pdf	7035F Request Form.pdf
<a href="#">View/Download</a>	Lab Report	OrrSID13381_Revised.pdf

Tracking

Sample Date (or start) **12-MAY-2020**

Sent to Lab **13-MAY-2020**

Dates Results Received from Lab: **22-MAY-2020**

**Sample results list**

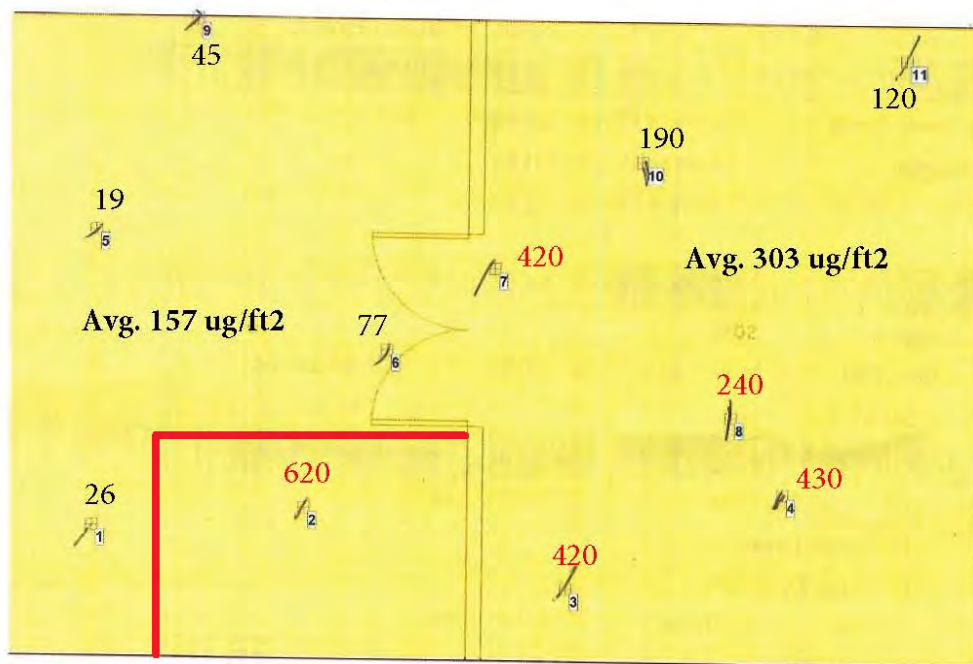
Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
SID13381-01	12-MAY-2020	WIPE SAMPLING	FLOOR		7035F FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	26	UG/FT2	200
SID13381-02	12-MAY-2020	WIPE SAMPLING	FLOOR		7035F FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	620	UG/FT2	200
SID13381-03	12-MAY-2020	WIPE SAMPLING	FLOOR		7035F FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	420	UG/FT2	200
SID13381-04	12-MAY-2020	WIPE SAMPLING	FLOOR		7035F FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	430	UG/FT2	200
SID13381-05	12-MAY-2020	WIPE SAMPLING	FLOOR		7035F FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	19	UG/FT2	200
SID13381-06	12-MAY-2020	WIPE SAMPLING	FLOOR		7035F FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	77	UG/FT2	200
SID13381-07	12-MAY-2020	WIPE SAMPLING	FLOOR		7035F FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	420	UG/FT2	200
SID13381-08	12-MAY-2020	WIPE SAMPLING	FLOOR		7035F FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	240	UG/FT2	200
SID13381-09	12-MAY-2020	WIPE SAMPLING	FLOOR		7035F FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	45	UG/FT2	200
SID13381-10	12-MAY-2020	WIPE SAMPLING	FLOOR		7035F FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	190	UG/FT2	200
SID13381-11	12-MAY-2020	WIPE SAMPLING	FLOOR		7035F FIRST	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	120	UG/FT2	200

Collect 100 cm<sup>2</sup> wipe samples for Be and 1 ft<sup>2</sup> wipe samples for Pb from the nearest available floor surface at the locations indicated.

Be SID 13379

Pb SID 13381

**11 samples avg. 237 ug/ft<sup>2</sup>**



REV 1 ISSUED:

BUILDING 7035F FIRST FLOOR PLAN



# Analytical Report

Safety Services Division  
Industrial Hygiene  
Analytical Laboratory

Orr, Tom

Batch: 8638

Location: 7035F FIRST

Received Date: 5/13/2020

Analysis Date: 5/19/2020

Report Date: 5/22/2020

Sample ID	Analyte	Result	Units	Comments
SID13381-01	Lead Wipe	26	ug	
SID13381-02	Lead Wipe	620	ug	
SID13381-03	Lead Wipe	420	ug	Small amount of sample boiled over during sample digestion. Result may be biased low.
SID13381-04	Lead Wipe	430	ug	Small amount of sample boiled over during sample digestion. Result may be biased low.
SID13381-05	Lead Wipe	19	ug	
SID13381-06	Lead Wipe	77	ug	
SID13381-07	Lead Wipe	420	ug	
SID13381-08	Lead Wipe	240	ug	
SID13381-09	Lead Wipe	45	ug	
SID13381-10	Lead Wipe	190	ug	
SID13381-11	Lead Wipe	120	ug	
SID13381-12	Lead Wipe	<3.8	ug	Report OrrSID13381.pdf issued on 5/21/20 revised to add comments for SID13381-03 and SID13381-04.

### Reporting Level

Lead Wipe 3.8 ug

Laboratory: IHAL

Method: IOP 01-26.20

Note: Samples were received in good condition unless otherwise noted. Results are not blank corrected unless otherwise noted. Results relate only to the items tested.

Approved By: Crystal R Hoffmann

Date: 5/22/20

Crystal R. Hoffmann  
Industrial Hygiene Laboratory Manager

Page 1 of 1

5/22/2020 9:30:22 AM

## Survey Profile Report - Survey Coversheet

Survey ID: **SID14068**  
Status: **OPEN**  
Survey Title: **PB\_WIPE\_FLOOR\_BUILDING**  
**7070\_11/19/2020**  
Survey Date: **19-NOV-2020**  
Location: **7070 FIRST**  
IH-Safety officer: **SMITH,DUANE (00965363)**  
Primary Sampler: **MASSARO,REBEKKAH**  
**(03077143)**

## Request Description

## Description of and Purpose for Sampling:

Determine if Lead contamination is present on floor of 7070  
LOT # 03C1 011520 EX0723

## Description of Sample Equipment and Placement While Sampling:

See attached map  
Sample #12 moved to room 02

## Description of Sampling Method:

Wipe

Sample Rationale: **FACILITY CHARACTERIZATION**

## Analytical Method

Sampling Matrix/Device: GHOST WIPES  
Sampling Method: METALS\_SURFACE/IOP O1-12.5

## Description of Analysis Requested (for lab personnel)

Lead

## Other

Characterization Status: **CHARACTERIZATION COMPLETE, NO EXCEEDENCES**  
Characterization Category: **FLOOR**

**Survey Discussion**

## Discussion of Results, Expectations and History

The average of all 18 randomly collected floor wipe samples was 66 ug/ft<sup>2</sup> which is below the ORNL Recommended Clearance Limit for non-lead work areas (200 ug/ft<sup>2</sup> average). All 18 samples were less than 200 ug/ft<sup>2</sup>. Based on these results, lead controls are not required to access these areas.

## Survey Conclusions and Comments

Visual Sample Plan was used to select random sample locations within the survey area. The average of all sample results will be compared to the ORNL Recommended Clearance Limit for non-lead work areas (200 ug/ft<sup>2</sup> average) to determine if the area is contaminated with lead.

## Recommendations to Workers and Management

NONE

**Blanks/Controls**

Sample	Analyzed agent	Result	Unit	Comments
SID14068-19	-	<3.8	-	
SID14068-20	-	<3.8	-	

## Tracking

Sample Date (or start) **19-NOV-2020**

Sent to Lab **20-NOV-2020**

**Sample results list**

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
<a href="#">SID14068-01</a>	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01A	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	31	UG/FT2	200
<a href="#">SID14068-02</a>	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01B	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	71	UG/FT2	200
<a href="#">SID14068-03</a>	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01C	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	130	UG/FT2	200



Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
SID14068-04	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01E	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	<60	UG/FT2	200
SID14068-05	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01E	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	81	UG/FT2	200
SID14068-06	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 03	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	58	UG/FT2	200
SID14068-07	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01A	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	60	UG/FT2	200
SID14068-08	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01B	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	25	UG/FT2	200
SID14068-09	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01C	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	120	UG/FT2	200
SID14068-10	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01D	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	130	UG/FT2	200
SID14068-11	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01E	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	55	UG/FT2	200
SID14068-12	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 02	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	17	UG/FT2	200
SID14068-13	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01A	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	56	UG/FT2	200
SID14068-14	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01B	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	33	UG/FT2	200
SID14068-15	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01C	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	160	UG/FT2	200
SID14068-16	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01E	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	45	UG/FT2	200
SID14068-17	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 01E	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	30	UG/FT2	200

Sample ID	Date	Assessment	Result Type	AU ID	Location	Agent	Result	Unit	OEL
SID14068-18	19-NOV-2020	WIPE SAMPLING	FLOOR		7070 FIRST 02	LEAD ELEMENTAL & INORGANIC COMPOUNDS, AS PB	18	UG/FT2	200



# Analytical Report

Safety Services Division  
Industrial Hygiene  
Analytical Laboratory

Smith, Duane

Batch: 9132

Location: 7070 FIRST

Received Date: 11/20/2020

Analysis Date: 12/2/2020

Report Date: 12/11/2020

Sample ID	Analyte	Result	Units	Comments
SID14068-01	Lead Wipe	31	ug	
SID14068-02	Lead Wipe	71	ug	
SID14068-03	Lead Wipe	130	ug	Sample boiled over during digestion resulting in approximately 5-10% sample loss. Sample had to be divided into two aliquots for digestion due to excessive foaming upon addition of acids. Total volume of digestate analyzed was 80 mL. Result may be biased low. Result reported from a 4x dilution. Reporting level increased to 24 ug based on a final volume of 80 mL.
SID14068-04	Lead Wipe	<60	ug	Sample boiled over during digestion resulting in approximately 10% sample loss. Sample had to be divided into two aliquots for digestion due to excessive foaming upon addition of acids. Total volume of digestate analyzed was 80 mL. Result may be biased low. Result reported from a 10x dilution. Reporting level increased to 60 ug based on a final volume of 80 mL.
SID14068-05	Lead Wipe	81	ug	
SID14068-06	Lead Wipe	58	ug	
SID14068-07	Lead Wipe	60	ug	
SID14068-08	Lead Wipe	25	ug	
SID14068-09	Lead Wipe	120	ug	Sample produced excessive foam upon the addition of acid and was divided into 3 aliquots for digestion. Total volume of sample analyzed was 100 mL. Result may be biased slightly low. Result reported from a 4x dilution. Reporting level increased to 30 ug based on a 100 mL sample volume.
SID14068-10	Lead Wipe	130	ug	Sample produced excessive foam upon the addition of acid and was divided into 2 aliquots for digestion. Total volume of sample analyzed was 50 mL. Result may be biased low. Result reported from a 10x dilution. Reporting level increased to 38 ug.
SID14068-11	Lead Wipe	55	ug	

# Analytical Report

Sample ID	Analyte	Result	Units	Comments
SID14068-12	Lead Wipe	17	ug	
SID14068-13	Lead Wipe	56	ug	
SID14068-14	Lead Wipe	33	ug	
SID14068-15	Lead Wipe	160	ug	
SID14068-16	Lead Wipe	45	ug	
SID14068-17	Lead Wipe	30	ug	
SID14068-18	Lead Wipe	18	ug	
SID14068-19	Lead Wipe	<3.8	ug	
SID14068-20	Lead Wipe	<3.8	ug	

**Reporting Level**

Lead Wipe 3.8 ug

**Laboratory:** IHAL**Method:** IOP 01-26.20

Note: Samples were received in good condition unless otherwise noted. Results are not blank corrected unless otherwise noted. Results relate only to the items tested.

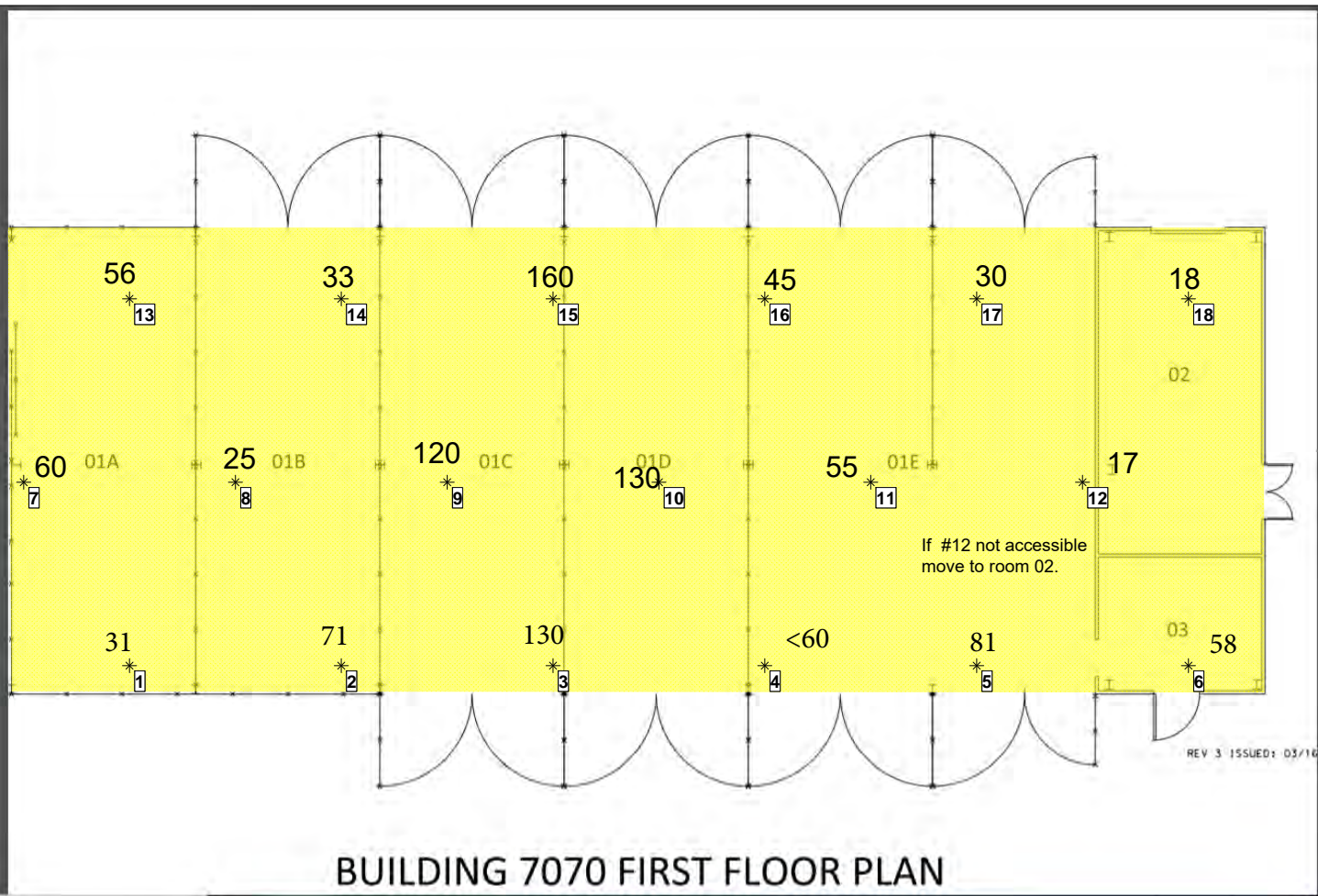
Approved By: Crystal R. HoffmannDate: 12/11/20

Crystal R. Hoffmann  
Industrial Hygiene Laboratory Manager

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12/11/2020 10:42:32 AM

7033 Collect 100 cm<sup>2</sup> wipe samples for Be and 1 ft<sup>2</sup> wipe samples for Pb from the nearest available floor surface at the locations indicated.



# Radiological Characterization

The radiological surveys and evaluations for the areas defined by the demolition boundaries for the CRSF Building Demolition has been completed and the results indicate there is no radiological contamination present. Radiological Protection Operations (RPO) personnel may be present during demolition activities to survey previously inaccessible areas/surfaces (i.e. the underside of concrete slabs and the pit). If radiological contamination is discovered, RPO personnel will promptly notify the Seller and the Seller shall stop work immediately and await further instruction from the Company. Please note that RPO personnel must be present to survey all incoming and outgoing heavy equipment as well as to survey the waste containers prior to disposition.