

MACC IV SAMPLE PROJECT
BUILDING 2113

APPENDIX 11
B2113 Asbestos and LBP Survey



DEPARTMENT OF THE AIR FORCE
75TH CIVIL ENGINEERING (CEOHA)
HILL AIR FORCE BASE, UTAH



ASBESTOS LEAD BASED PAINT LIMITED INSPECTION REPORT

INSPECTION DATE: 06 July 2020

(This inspection is valid for three years from the inspection date regardless of Exp. Date of inspector cert. If past this date, a visual or additional assessment will then be required)

Reference UDAQ R307-807-6

Utah Certified State Inspector: Raudel Arteaga

(ASB#-5863: Expires-25 October 2020, PB#-2244: Expires-6 November 2022)

RENOVATE FACILITY

WORK TASK/CAPITAL PROJECT #: 5931819

FACILITY: 2113

FACILITY CONSTRUCTION DATE: 1941

REQUESTER: BART PRIEST

ORGANIZATION: 309 MXSG

REQUESTED: 20 May 2019



THE QUANTITIES WITHIN THIS REPORT ARE ESTIMATES AND SHOULD
NOT BE USED FOR BIDDING PURPOSES

PREPARED BY: Raudel Arteaga (ASB#-5863, PB#-2244)

SIGNATURE: _____



**DEPARTMENT OF THE AIR FORCE
75 CIVIL ENGINEERING (CEOHA)
HILL AIR FORCE BASE, UTAH**



LIMITED ASBESTOS INSPECTION REPORT INFORMATION

Statement of Work: Renovate Facility

This inspection was performed in accordance with the Utah Division of Air Quality (DAQ) requirements as found in the Utah Air Quality Rule R307-801-10. This inspection report is required to be on site during all abatement, renovation, and demolition activities. Samples referenced in this report were analyzed by polarized light microscopy (PLM) utilizing method 600R-93-116 by The Science and Engineering Laboratory (AIHA Acc.#-101572) at Hill Air Force Base, Utah (R307-801-10.8.a-b).

Civil Engineering personnel also reviewed previous asbestos inspection reports of suspect asbestos containing materials (ACM) that could potentially be encountered in the proposed area/areas. The information gathered from all current and previous inspections is shown below by homogenous area (R307-801-9-4).

The quantities within this report are estimates and are not to be used for bidding purposes.

| SUMMARY OF ASBESTOS CONTAINING MATERIALS FOUND | | | | | |
|---|-----------------|-------------------|---|------------------|--|
| MATERIAL TYPE | ASBESTOS | FRIABILITY | *RACM *Category I *Category II | QUANTITY | *LOCATIONS FOUND |
| Thermal System Pipe Insulation, Silver/Off White | Assumed | Friable | RACM | 250 Linear Feet | Bays 5, 9, 10,11, 12, 13 |
| HVAC Vibration Collar, Tan | Assumed | Friable | RACM | 75 Linear Feet | Bays 5, 9 |
| Thermal System Pipe Insulation Fittings, Silver | Assumed | Friable | RACM | 25 Linear Feet | Bays 5, 13 |
| Roof Sealant, Grey | 13% Chrysotile | Non Friable | Category I | 200 linear Feet | Flat Metal Roof, South of Tomography Bay |
| Roof Flashing, Black | 4% Chrysotile | Non Friable | Category I | 160 Linear Feet | Upper And Lower Roofs on South End Of Facility |
| Drywall Joint Compound | 2% Chrysotile | Non Friable | Category II | 4500 Square Feet | Bay 3 |

Table 1

***Per UDAQ definition.**

RACM: Regulated Asbestos-Containing Material (RACM)" means friable ACM, Category I non-friable ACM that has become friable, Category I non-friable ACM that will be or has been 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 demolition or renovation project operations.

Category I Non-Friable ACM: Asbestos-containing packings, gaskets, resilient floor coverings, or asphalt roofing products containing more than 1% asbestos as determined by using the method specified in 40 CFR Part 763, Subpart E, Appendix E, Section 1, Polarized Light Microscopy (PLM).

Category II Non-Friable ACM: Any material, excluding Category I non- friable ACM, containing more than 1% asbestos as determined by using the methods specified in 40 CFR Part 763, Subpart E, Appendix E, Section 1, Polarized Light Microscopy (PLM) that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

Locations found: Locations of building materials as described in this report indicate where they were found, but do not necessarily mean that these are the only locations where these materials may be encountered during the project.

Per EPA requirements, all materials analyzed as containing ≤10% asbestos are point counted utilizing EPA method 600/R-93/116 this information is summarized in Table 2.

Per Hill AFB requirements, all materials containing any detectable amount of asbestos shall be handled as Asbestos Containing Material (ACM). Table 2 shows the summary of materials containing ≤1% that were identified via "Point Counting". Per EPA/UDAQ ≤1% is not considered to be an asbestos containing material, but special handling/packaging requirements are necessary per OSHA 29CFR 1926.1101 and 29CFR 1910.1001

| MATERIAL TYPE | ASBESTOS | QUANTITY | *LOCATIONS FOUND |
|---------------|----------|----------|------------------|
| N/A | N/A | N/A | N/A |

Table 2.

| The following is a list of the "Suspect Materials" that were sampled as part of this inspection: | |
|--|--|
| Roof Sealant, Grey | Roof Sealant, Tan |
| Roof Batt Insulation, Foil/Pink | Roof Decking Black/Brown |
| Roof Flashing, Black | Textured Drywall/Joint Compound Ceiling System |
| Drywall/Joint Compound Wall System | 12" Acoustical Ceiling Tile Wormygrooves/Pinhole, White/Brown Puck |
| 2'x4 Ceiling Tile Wormygrooves/Pinholes White | 2'x2' Recessed Ceiling Tile Pockmark/Pinholes, White |
| Thermal System Pipe Insulation, White/Yellow | Window Putty, Grey |
| Sheet Vinyl, Red/Cloth | Door Stop, Black |
| | |

Table 3.

A total of 47 samples reference the 14 suspect materials assessed as part of the inspection.

The following table summarizes the sampling data.

| Homogenous Building Material, Description, Location, Quantity. | Sample # | Sample Location | Results |
|--|----------|-------------------------------------|----------------|
| Roof Sealant, Grey, Flat Metal Roof South Of Tomography Bay, 200 Linear Feet | GM201821 | Northeast | 11% Chrysotile |
| | GM201822 | Southwest | 13% Chrysotile |
| | GM201823 | Southeast | 10% Chrysotile |
| | GM201824 | Northeast | 11% Chrysotile |
| Roof Sealant, Tan, Flat Metal Roof South Of Tomography Bay, 50 Linear Feet | GM201825 | Southeast | None Detected |
| Roof Batt Insulation, Foil Over Pink, Multiple Locations, 27,00 Square Feet | GM201826 | West Center, Bay 7 | None Detected |
| | GM201827 | West Center, Bay 1 | None Detected |
| | GM201828 | East Center, Bay 5 | None Detected |
| | GM201829 | Southeast, Bay 6 | None Detected |
| | GM201830 | Southeast, Bay 14 | None Detected |
| Roof Decking, Black Over Brown, Tomography Bay, 5,000 Square Feet | GM201831 | Southeast, Lower Roof | None Detected |
| | GM201832 | Center, Lower Roof | None Detected |
| | GM201833 | Center, Upper Roof | None Detected |
| Roof Flashing, Black, Tomography Bay, 160 Linear Feet | GM201834 | Center, Upper Flat Roof | 4% Chrysotile |
| | GM201835 | East Center, Lower Flat Roof | 3% Chrysotile |
| | GM201836 | South Center, Lower Flat Roof | 3% Chrysotile |
| Textured Drywall/Joint Compound Ceiling System, Bay 10, 300 Square Feet | GM201837 | Northeast | None Detected |
| | GM201838 | South Center | None Detected |
| | GM201839 | West Center | None Detected |
| Drywall/Joint Compound Wall System, Multiple Locations, 4,500 Square Feet | GM201840 | Southwest, Office Area Bay 3 | 2% Chrysotile |
| | GM201841 | East Center, Office Area, Bay 3 | 2% Chrysotile |
| | GM201842 | Northeast, Electrical Room Bay 3 | 1% Chrysotile |
| | GM201843 | Southeast, Storage Closet Bay 10 | None Detected |
| | GM201844 | East Center, Storage Closet Bay 10 | None Detected |
| | GM201845 | South Center, Storage Closet Bay 10 | None Detected |
| 12" Acoustical Ceiling Tile, Wormygrooves/Pinhole Pattern, White Over Brown Puck, Bay 3, 350 Square Feet | GM201846 | West Center | None Detected |
| | GM201847 | Northeast | None Detected |
| | GM201848 | Northwest | None Detected |
| 2'x4' Ceiling Tile, Wormygrooves/Pinhole Pattern, White, Bay 10, 1,500 square Feet | GM201849 | East Center | None Detected |
| | GM201850 | Northeast | None Detected |
| | GM201851 | Southwest | None Detected |
| 2'x2' Recessed Ceiling Tile, Pockmarks/Pinholes Pattern, White, Bay 13, 1,500 square Feet | GM201852 | East Center | None Detected |
| | GM201853 | Northwest | None Detected |
| | GM201854 | Southeast | None Detected |

| | | | |
|---|-----------------|--------------------------------------|----------------------|
| Thermal system Pipe insulation, White Over Yellow, Bay 5, 200 Linear Feet | GM201855 | Center | None Detected |
| | GM201856 | South Center | None Detected |
| | GM201857 | Southwest | None Detected |
| Window Putty, Grey, Multiple Locations, 5,000 Linear Feet | GM201858 | West Center, Bay 11 | 1% Chrysotile |
| | GM201859 | East Center, Bay 11 | 1% Chrysotile |
| | GM201860 | West Center, Bay 12 | 1% Chrysotile |
| | GM201861 | West Center, Bay 14 | 1% Chrysotile |
| Sheet Vinyl, Red Over Cloth, Multiple Locations, 5,500 Square Feet | GM201862 | North Center, Storage Closet, Bay 10 | None Detected |
| | GM201863 | East Center, Bay 7 | None Detected |
| | GM201864 | East Center, Bay 11 | None Detected |
| | GM201865 | East Center, Bay 12 | None Detected |
| | GM201866 | East Center, Bay 14 | None Detected |
| Door Stop, Black, Bay 5, 5 Linear Feet | GM201867 | East Exterior, Bay 5 | None Detected |

Table 4.

POTENTIAL FOR ADDITIONAL MATERIALS:

This inspection report only encompasses the areas/materials designated within the scope of work that was provided at the date of inspection (see title page for inspection date). Should the scope of the project be altered in any way or any materials found that are not identified in this report shall require additional assessment. This report cannot be used for any other projects within the building.

Any questions or concerns regarding this inspection report or if any new suspect asbestos containing material (ACM) is encountered, stop work and contact the personnel listed below for further assistance/assessment.

CONTACT INFORMATION

Asbestos/LBP Shop 75 CES(CEOHA)

Supervisor: Taylor Brimberry: DSN: (801)586-7094
Cell: (801)940-2970

Asbestos/LBP Shop Personnel
DSN:(801)777-8006



DEPARTMENT OF THE AIR FORCE
75TH CIVIL ENGINEERING (CEOHA)
HILL AIR FORCE BASE, UTAH



LIMITED LEAD-BASED PAINT IDENTIFICATION REPORT INFORMATION

SCOPE OF WORK: Renovate Facility

1-Table 1 below, summarizes the painted/coated building components that tested positive for Lead Based Paint/Coating. These components should be segregated or abated prior to renovation or demolition, and a composite TCLP taken of the waste before disposal.

2-The condition column is the condition only of the painted/coated component (See final page for all readings/samples).

XRF Analyzer Used: XRF Analyzer XL3t 300 (Serial #96588)

| XL Number | Substrate | Component | Color | Lead Reading | Paint Condition |
|-----------|-----------|-------------------------|--------|--------------|-----------------|
| 3488 | Metal | Structural Steel | Red | 3.18 | Good |
| 3489 | Metal | Structural Steel Column | Red | 2.45 | Good |
| 3490 | Metal | Window Frame | Brown | 4.66 | Poor |
| 3491 | Metal | Lintel | Brown | 2.42 | Poor |
| 3492 | Metal | Door Jamb | Black | 0.97 | Poor |
| 3493 | Metal | Door Jamb | Blue | 0.8 | Poor |
| 3494 | Metal | Door Jamb | Blue | 5.07 | Poor |
| 3495 | Metal | Door | Blue | 5.67 | Poor |
| 3496 | Metal | Door | Black | 13.24 | Poor |
| 3498 | Metal | Door | Orange | 5.44 | Poor |
| 3499 | Metal | Door Jamb | Orange | 4.43 | Poor |
| 3500 | Metal | Door Jamb | Brown | 7.03 | Poor |
| 3501 | Metal | Door Jamb | Grey | 5.02 | Poor |
| 3502 | Metal | Door | Brown | 5.59 | Poor |
| 3503 | Metal | Door | Brown | 6.34 | Poor |
| 3504 | Metal | Window Frame | Brown | 4.82 | Poor |
| 3505 | Metal | Lintel | Tan | 4.24 | Poor |
| 3506 | Metal | Lintel | Brown | 0.8 | Poor |
| 3507 | Metal | Lintel | Grey | 0.8 | Poor |
| 3511 | Metal | Structural Steel | Brown | 9.66 | Poor |
| 3512 | Metal | Structural Steel | Tan | 5.77 | Poor |
| 3516 | Metal | Door Jamb | Yellow | 1.22 | Poor |
| 3517 | Metal | Door | Yellow | 5.96 | Poor |
| 3522 | Wood | Roll Up Door | Grey | 2.3 | Poor |
| 3530 | Metal | Door | Tan | 6.4 | Poor |
| 3531 | Metal | Door Jamb | Tan | 3.96 | Poor |

| | | | | | |
|------|----------|------------------|--------|------|------|
| 3532 | Metal | Window | Orange | 1.54 | Poor |
| 3543 | Metal | Door Jamb | Grey | 3.27 | Poor |
| 3544 | Metal | Door | Grey | 7.3 | Poor |
| 3545 | Metal | Door Jamb | Brown | 6.18 | Poor |
| 3546 | Metal | Door | Brown | 5.33 | Poor |
| 3547 | Metal | Window Frame | Brown | 6.57 | Poor |
| 3554 | Metal | Window Mutton | White | 2.82 | Fair |
| 3556 | Metal | Door | White | 3.69 | Fair |
| 3557 | Metal | Door Jamb | White | 5.14 | Fair |
| 3558 | Metal | Door | Brown | 7.11 | Fair |
| 3559 | Metal | Door Jamb | Brown | 5.72 | Fair |
| 3561 | Metal | Window Frame | Tan | 4.16 | Poor |
| 3562 | Concrete | Window Sill | Tan | 1.95 | Poor |
| 3563 | Metal | Structural Steel | Brown | 8.01 | Poor |
| 3564 | Metal | Structural Steel | Brown | 8.04 | Poor |
| | | | | | |

Table 1.

3-The U.S. Department of Housing and Urban Development defines Lead-based paint as any paint, varnish, stain, or other applied coating that has 1 mg/cm² as measured by an X-ray Fluorescence (XRF) Analyzer or laboratory analysis or 0.5 percent by weight (5,000 µg/g by dry weight) by laboratory analysis, or more of lead. **All other components tested were less than 0.80 mg/cm².**

4-Any effort to disturb lead paint can create lead dust. Ensure that appropriate abatement, cleanup, and disposal will be accomplished and that appropriate safety measures are taken IAW 29 CFR 1926.62. If you have any questions concerning this report, contact the Asbestos/LBP Shop: Traver Andreasen at 586-7094.

5-This inspection report only encompasses the areas/materials designated within the scope of work that was provided at the date of the inspection (see title page for date). This report must be modified should the scope of the project be altered in any way or additional materials not previously identified within this report are encountered. This report may not be used for any other projects within the building.

| Pre Calibration | PbL (mg/cm ²) | Calibration Range |
|-----------------|---------------------------|-----------------------|
| 3485 | 1.08 | Per 20 Second Reading |
| 3486 | 0.90 | |
| 3487 | 1.14 | |
| Range: | .8 to 1.2 | |

| Model# | Serial # |
|---------------------------------------|----------|
| XRF Analyzer XL3t 300 (Serial #96588) | |

| Post Calibration | PbL (mg/cm ²) | Calibration Range |
|------------------|---------------------------|-----------------------|
| 3567 | 1.19 | Per 20 Second Reading |
| 3568 | 0.84 | |
| 3569 | 1.00 | |
| Range: | .8 to 1.2 | |

| XL Number | Room/Area | Side | Structure | Paint Condition | Substrate | Color | PbL(mg/cm ²) | NEG/POS |
|-----------|----------------|--------|-------------------------|-----------------|-----------|--------|--------------------------|---------|
| 3488 | Bay 1 | East | Structural Steel | Good | Metal | Red | 3.18 | POS |
| 3489 | Bay 1 | East | Structural Steel Column | Good | Metal | Red | 2.45 | POS |
| 3490 | Bay 1 | East | Window Frame | Poor | Metal | Brown | 4.66 | POS |
| 3491 | Bay 1 | East | Lintel | Poor | Metal | Brown | 2.42 | POS |
| 3492 | Bay 1 | East | Door Jamb | Poor | Metal | Black | 0.97 | POS |
| 3493 | Bay 1 | East | Door Jamb | Poor | Metal | Blue | 0.80 | POS |
| 3494 | Bay 1 | East | Door Jamb | Poor | Metal | Blue | 5.07 | POS |
| 3495 | Bay 1 | East | Door | Poor | Metal | Blue | 5.67 | POS |
| 3496 | Bay 1 | East | Door | Poor | Metal | Black | 13.24 | POS |
| 3497 | Bay 1 | Center | Floor | Poor | Concrete | Red | 0.01 | NEG |
| 3498 | Bay 1 | East | Door | Poor | Metal | Orange | 5.44 | POS |
| 3499 | Bay 1 | East | Door Jamb | Poor | Metal | Orange | 4.43 | POS |
| 3500 | Exterior Bay 1 | East | Door Jamb | Poor | Metal | Brown | 7.03 | POS |
| 3501 | Exterior Bay 1 | East | Door Jamb | Poor | Metal | Grey | 5.02 | POS |
| 3502 | Exterior Bay 1 | East | Door | Poor | Metal | Brown | 5.59 | POS |
| 3503 | Exterior Bay 1 | East | Door | Poor | Metal | Brown | 6.34 | POS |
| 3504 | Exterior Bay 1 | East | Window Frame | Poor | Metal | Brown | 9.82 | POS |
| 3505 | Exterior Bay 1 | East | Lintel | Poor | Metal | Tan | 4.29 | POS |
| 3506 | Exterior Bay 1 | East | Lintel | Poor | Metal | Brown | 0.80 | POS |
| 3507 | Exterior Bay 1 | East | Lintel | Poor | Metal | Grey | 0.80 | POS |
| 3508 | Exterior Bay 1 | East | Window Sill | Poor | Concrete | Tan | 0.21 | NEG |
| 3509 | Exterior Bay 1 | East | Wall | Poor | Block | Tan | 0.01 | NEG |
| 3510 | Exterior Bay 1 | East | Structural Column | Poor | Concrete | Tan | 0.01 | NEG |
| 3511 | Exterior Bay 1 | East | Structural Steel | Poor | Metal | Brown | 9.66 | POS |
| 3512 | Bay 1 | East | Structural Steel | Poor | Metal | Tan | 4.77 | POS |
| 3513 | Bay 5 | South | Wall | Poor | Concrete | Tan | 0.33 | NEG |
| 3514 | Bay 5 | North | Duct | Poor | Metal | Silver | 0.01 | NEG |
| 3515 | Bay 5 | North | Wall | Poor | Block | Grey | 0.42 | NEG |
| 3516 | Bay 5 | North | Door Jamb | Poor | Metal | Yellow | 11.22 | POS |
| 3517 | Bay 5 | North | Door | Poor | Metal | Yellow | 5.96 | POS |

| Pre Calibration | PbL (mg/cm ²) | Calibration Range |
|-----------------|---------------------------|-----------------------|
| 3485 | 1.08 | Per 20 Second Reading |
| 3486 | 0.90 | |
| 3487 | 1.14 | |
| Range: | .8 to 1.2 | |

| Model# | Serial # |
|---------------------------------------|----------|
| XRF Analyzer XL3t 300 (Serial #96588) | |

| Post Calibration | PbL (mg/cm ²) | Calibration Range |
|------------------|---------------------------|-----------------------|
| 3567 | 1.19 | Per 20 Second Reading |
| 3568 | 0.84 | |
| 3569 | 1.00 | |
| Range: | .8 to 1.2 | |

| XL Number | Room/Area | Side | Structure | Paint Condition | Substrate | Color | PbL(mg/cm ²) | NEG/POS |
|-------------|---------------|-------------|---------------------|-----------------|--------------|---------------|--------------------------|------------|
| 3518 | Bay 5 | North | Wall | Poor | Concrete | Red | 0.37 | NEG |
| 3519 | Bay 5 | Center | Floor | Poor | Concrete | Grey | 0.37 | NEG |
| 3520 | Bay 6 | East | Roll Up Door | Poor | Wood | Brown | 0.51 | NEG |
| 3521 | Bay 6 | East | Roll Up Door | Poor | Wood | Yellow | 0.59 | NEG |
| 3522 | Bay 6 | East | Roll Up Door | Poor | Wood | Grey | 2.30 | POS |
| 3523 | Bay 6 | East | Roll Up Door | Poor | Wood | Brown | 0.50 | NEG |
| 3524 | Bay 6 | West | Fridge | Good | Metal | Brown | 0.52 | NEG |
| 3525 | Bay 10 | Center | Ceiling | Good | Drywall | White | 0.01 | NEG |
| 3526 | Bay 13 | West | Wall | Fair | Drywall | Grey | 0.30 | NEG |
| 3527 | Bay 13 | North | Floor | Fair | Concrete | Tan | 0.40 | NEG |
| 3528 | Bay 13 | North | HVAC Equipment | Fair | Metal | Tan | 0.01 | NEG |
| 3529 | Bay 13 | North | Duct | Fair | Metal | Tan | 0.01 | NEG |
| 3530 | Bay 13 | West | Door | Fair | Metal | Tan | 6.40 | POS |
| 3531 | Bay 13 | West | Door Jamb | Fair | Metal | Tan | 3.96 | POS |
| 3532 | Bay 13 | West | Window | Fair | Metal | Orange | 1.54 | POS |
| 3533 | Bay 14 | East | Wall | Fair | Block | Grey | 0.52 | NEG |
| 3534 | Bay 14 | East | Wall | Fair | Block | Tan | 0.01 | NEG |
| 3535 | Bay 14 | North | Wall | Fair | Concrete | Grey | 0.40 | NEG |
| 3536 | Bay 14 | North | Wall | Fair | Concrete | Tan | 0.33 | NEG |
| 3537 | Bay 16 | East | 4" Floor line | Fair | Concrete | Red | 0.40 | NEG |
| 3538 | Bay 16 | East | Floor | Fair | Concrete | Grey | 0.27 | NEG |
| 3539 | Bay 16 | South | Wall | Fair | Concrete | Tan | 0.65 | NEG |
| 3540 | Bay 16 | South | Wall | Fair | Concrete | Grey | 0.6 | NEG |
| 3541 | Bay 16 | East | Wall | Fair | Block | Tan | 0.77 | NEG |
| 3542 | Bay 16 | East | Wall | Fair | Block | Grey | 0.49 | NEG |
| 3543 | Bay 16 | East | Door Jamb | Fair | Metal | Grey | 3.27 | POS |
| 3544 | Bay 16 | East | Door | Fair | Metal | Grey | 7.30 | POS |
| 3545 | Bay 16 | East | Door Jamb | Fair | Metal | Brown | 6.18 | POS |
| 3546 | Bay 16 | East | Door | Fair | Metal | Brown | 5.33 | POS |
| 3547 | Bay 16 | East | Window Frame | Fair | Metal | Brown | 6.57 | POS |

