Environmental Consultants

Hazardous Material Inspection Report

Buildings 8008, 8108, 8136, and 8143

Naval Air Station Patuxent River,
Webster Field OLF Maryland

Prepared For:

NAVFAC Naval Facilities Engineering Command NAVFAC WASHINGTON

BURNS McDONNELL

December 2015 [Amended]

This page left blank intentionally

HAZARDOUS MATERIAL INSPECTION REPORT

Buildings 8008, 8108, 8136, 8143

Naval Air Station Patuxent [PAX] River, Webster Field, Outlying Landing Field [OLF] St. Mary's County, MD

Prepared For:
NAVFAC Washington
and
Burns McDonnell

AH Project Number: 122-71

Amended December 2015

AH Environmental Consultants, Inc.
11837 Rock Landing Drive, Suite 300
Newport News, VA 23606
757.873.4959
solutions@ahenv.com

This page left blank intentionally

EXECUTIVE SUMMARY III

1. ASBESTOS 1-1
1.1 ASBESTOS INSPECTIONS 1-3
1.1.1 8008 Samples 1-3
1.1.2 8008 ACM Comments 1-9
1.1.3 8108 Samples 1-11
1.1.4 8108 ACM Comments 1-12
1.1.5 8136 Samples 1-12
1.1.6 8136 ACM Comments 1-12
1.1.7 8143 Samples 1-12
1.1.8 8143 ACM Comments 1-13
1.2 RECOMMENDATIONS FOR ACM 1-13
1.3 CERTIFICATION 1-14

2. LEAD 2-1
2.1 SAMPLING 2-2
2.2 XRF RANGES 2-2
2.3 LEAD COMPONENTS 2-3
2.3.1 8008 Lead Testing 2-3
2.3.2 8108 Lead Testing 2-4
2.3.3 8136 Lead Testing 2-4
2.4 COMMENTS/RECOMMENDATIONS 2-5
2.5 CERTIFICATION 2-6

3. OTHER HAZARDS 3-1
3.1 MERCURY 3-1
3.1.1 Mercury Lamps 3-1
3.1.2 Mercury Switch Inspection 3-2
3.2 PCBS 3-2
3.3 IAQ ISSUES 3-3
3.3.1 Dusts 3-4
3.3.2 Mold 3-4
3.4 SOILS 3-4
3.5 OTHER ITEMS OF NOTE 3-5
3.6 RECOMMENDATIONS 3-6

LIST OF TABLES

TABLE **PAGE**

Table 1-1 8008 Asbestos Summary 1-5
Table 1-2 8108 Asbestos Summary 1-12
Table 1-3 8143 Asbestos Summary 1-13
Table 3-1 Soil Summary 3-5

LIST OF APPENDICES

APPENDIX

A HAZMAT INSPECTION DRAWINGS
B INSPECTION PHOTO-LOG
C LABORATORY REPORTS OF ANALYSIS AND XRF RESULTS
D 2013 INSPECTION DATA

EXECUTIVE SUMMARY

AH Environmental Consultants (AH) has prepared this Hazardous Material Inspection Report for the use of the Naval Facility Engineering Command (NAVFAC) Washington and Burns McDonnell Engineers to provide information concerning asbestos building materials, lead containing paints, or other recognized hazardous materials (HAZMAT) identified at Naval Air Station (NAS) Patuxent (PAX) River Webster Field Annex Buildings, that may be impacted by work associated with the renovations of Building 8008.

This site inspection and assessment was conducted by AH staff and involved sampling of suspect asbestos containing materials (ACM), testing of paint/coatings, investigation for mercury and polychlorinated biphenyls (PCBs), and other known potentially hazardous materials (HAZMAT) anticipated to be impacted by proposed work.

The primary HAZMAT concern for planned work activities appears to be asbestos pipe insulation that will be impacted during planned work. Paint coatings containing lead in poor condition were also identified and some lead contamination is present that may be impacted. Other items of special concern are present, but do not require significant safety controls or changes to the initial plans. The precise means and methods to handle the identified hazardous materials are covered under project specifications, separate from this document.

Inspections at the facility were conducted 3-6 August, 2015 and included identification, sampling and analysis, evaluation of paint/ coatings and suspect ACM, and inventory of other potentially hazardous materials that could impact planned work actions. Work included Buildings 8008, 8108, 8136, and 8143 located at the Webster Field Annex/ Outlying Landing Field (OLF) near St. Inigoes, MD.

Asbestos inspection information is provided in Section 1. Lead inspection information is provided in Section 2. Section 3 contains information pertaining to additional HAZMAT issues.

Site drawings indicating sample locations and information concerning the location of HAZMAT are provided in Appendix A, a reference photo-log is included in Appendix B, and the laboratory and XRF reports of analysis for all samples collected are provided in Appendix C.

1. ASBESTOS

There is a well-known link between the inhalation of asbestos fibers and various diseases such as asbestosis, mesothelioma, lung and other cancers. As a result, the Asbestos Hazard Emergency Response Act (AHERA, 40 CFR Part 763) was enacted. An AHERA inspection requires an accredited inspector to visually inspect and assess the condition of all known or assumed friable asbestos-containing building materials (ACM); to visually inspect non-friable ACM and touch it to determine friability; and to identify homogeneous areas of friable materials. The National Emission Standards for Hazardous Air Pollutants (NESHAPs) require thorough inspections for asbestos in structures before renovation or demolition.

The intent of the inspection was to provide sufficient information to involved parties that may impact the renovations of project buildings and to prepare adequate abatement specifications for such. Bulk sampling of suspect ACM was performed. Samples were analyzed utilizing Polarized Light Microscopy (PLM) with dispersion staining (EPA method 600/M4/82/020). For confirmation, two floor tile samples were analyzed by Transmission Electron Microscopy (TEM), NIOSH method 7402. The accredited laboratory reports of analysis are provided in Appendix C.

The sample identification system of this report consists of a three-unit sample identification number. The first set of digits indicates the building designation, the next set indicates the homogenous material grouping for the building, and the last two numbers indicate the consecutive sample number as collected in the field. For example, 44-01-03 would indicate that the sample was collected from Building 44, homogenous area one, and was the third sample collected [of that homogenous material] during the inspection. These sample numbers match the chain-of-custody, lab reports of analysis, and sample identification numbers on the drawings (Appendix A). No historical sample data was provided or referenced for this project.

Sample result summaries are provided in table format. Note that NAD in the % asbestos column indicates that there was *No Asbestos Detected* in the sample. Some sample results in this column may be displayed in this report with a slash between two numbers, (#/#). The

first number represents the first material listed under the material location/description and the second number represents the second material listed. Sampled materials that contain asbestos are highlighted in **bold red** and underlined.

The samples are also grouped into homogeneous material/area groups. Homogeneous materials are suspect materials that are uniform by color, texture, construction/application date and general appearance. Photos of ACM are included in the reference photo-log (Appendix B) for assistance in later material identification.

Sample summary tables also distinguish whether materials are considered friable (able to be crushed or pulverized by hand pressure) or non-friable (not able to be crushed or pulverized by hand pressure) for the purpose of determining the ACM category. The collected samples were at least 1 cubic centimeter and were placed in a sealed container at the time of collection. Appropriate precautions were taken to prevent exposure to those present in or around the facility during the collection of samples, including wet collection methods.

As previously mentioned, the asbestos NESHAP (40 CFR 61, subpart M) requires a thorough inspection for asbestos in structures before the renovation or demolition of those structures. Materials determined to be ACM (containing greater than 1% asbestos) must also be categorized for removal and demolition purposes. The various categories for ACM are shown in the following chart.

ACM CATEGORY (NESHAP)

Categories	Typical Material Type	Guidance for RACM
Friable ACM	Pipe insulation fittings	Able to crush with hand pressure
Cat I, Non-friable	Floor coverings, Roofing products, Gaskets	Non-friable materials that have become friable, or Non-friable material that is or will be damaged due to sanding, grinding, cutting, or abrading
Cat II, Non-friable	Cement siding (Transite), Significantly damaged tile	Non-friable material that has a high probability of becoming or has become friable by forces expected to act on the material in the course of renovation or demolition

Any ACM that is Friable, or Category I and II Non-friable that meets the qualifications to be considered a Regulated Asbestos-Containing Material (RACM), must be removed prior to

demolition or disturbance that would break up, dislodge, or similarly destroy the material or preclude access to the material for subsequent removal. This includes gasket materials.

The findings of the asbestos inspections are detailed in the following section, including recommendations for action.

1.1 ASBESTOS INSPECTIONS

The building inspections were conducted for the renovation and demolition required to expand a current structure. Buildings included, and planned work actions include:

- 8008, Shop, planned renovations and expansion,
- 8108, Painting and storage, planned demolition
- 8136, Gas storage, planned demolition
- 8143, Storage, planned demolition

A visual survey was performed of accessible suspect ACM at all aforementioned sites. Note: the inspection was inclusive of all accessible portions of the buildings as a whole. Individual inspection data is provided following.

1.1.1 8008 Samples

The building appeared to be constructed in multiple phases, between 1950's and 1990's. Some renovations and upgrades were apparent, with new (post 1990) and old (pre 1990) building systems and structures remaining. Some portions of the structure, although presently covered, were considered substantially original (e.g. covered exterior walls).

A previous inspection was conducted in 2013 at this building which identified thirty-eight (38) unique building materials, including ACM's. This data was incorporated into the current inspection

The current asbestos survey identified seventeen (17) additional homogenous suspect materials. When data was insufficient to determine if a material had been previously accounted for, a new homogenous material number was assigned.

The homogenous materials identified during the 2013 and/or current inspections include:

- Pipe insulation and fittings,
- 9" and 12" floor tiles (various),
- Miscellaneous adhesives and sealants,
- Drywall and joint material,
- Asbestos cement (Transite) panels,
- Fire doors (assumed),
- Roofing materials,
- Boiler materials,
- Felt paper/ vapor barrier materials,
- Ceiling tiles (various),
- Base cove and mastics (various),
- Caulking,
- Fiberglass sealants,
- Gasket materials,
- Floor leveling compounds,
- Vinyl sheet flooring,
- Fiberboard wall panels,
- Residual floor tile mastics, and
- Debris

Bulk sampling was performed on the suspect ACM found in the survey area. Ninety-five (95) samples were collected in 2013. An additional sixty-eight (68) samples were currently collected for asbestos analysis. A summary of sample results, current and previous, are provided in Table 1-1. Graphic depiction of ACM locations are shown on drawings (Appendix A).

Note the 2013 inspection used sequential sample numbering, whereas the current inspection utilized homogenous material grouping. The previous inspection samples are notated in italics and homogenous material group was assigned based on information provided. There were asbestos containing materials (ACM) identified.

Table 1-1
8008 Asbestos Summary

Sample #	Description [location]	Asbestos %	Friable?
8008-01-52	Pipe insulation, white	20	YES
8008-01-56	Pipe insulation, white	30	YES
8008-01-59	Pipe insulation, white	30	YES
8008-01-100	Pipe insulation, white, Magnesia	20	YES
8008-01-101	Pipe insulation, white, Magnesia	20	YES
8008-02-48	Pipe insulation, gray	20	YES
8008-02-49	Pipe insulation, brown layered	NAD	N/A
8008-02-50	Pipe insulation, gray	10	YES
8008-02-51	Pipe insulation, brown layered	<1	N/A
8008-02-54	Pipe insulation, gray	20	YES
8008-02-55	Pipe insulation, brown layered	2	NO
8008-02-100	Pipe insulation, Aircell	40	YES
8008-03-53	Pipe insulation fittings, gray	60	YES
8008-03-57	Pipe insulation fittings, gray	60	YES
8008-03-58	Pipe insulation fittings, gray	60	YES
8008-03-77	Pipe insulation fitting, gray	25	YES
8008-03-100	Pipe insulation fitting, gray, HM01 line	60	YES
8008-03-101	Pipe insulation fitting, gray, HM02 line	60	YES
04-0	12" Gray tile and adhesive/ mastic (see HM38)	-	-
8008-05-29, 30	9" Pink tile and mastic	2/ 3	NO
8008-06-7, 8	12" Beige w/brown tile and mastic	NAD/ 2	NO
8008-06-9, 10	12" Beige w/brown flecks tile and mastic	NAD/ 2	NO
8008-06-41, 42	12" Beige w/brown tile and mastic	NAD/ 2	NO
8008-06-83	12" Tan w/brown tile	NAD	N/A
8008-06-100	12" Tan w/brown tile	NAD	N/A
8008-06a-101	12" Tan w/brown tile and mastic a	NAD/ 3	NO
8008-06a-101tem	TEM Analysis: 12" Tan w/brown tile	NAD	N/A
8008-06b-102	12" Tan w/brown tile and mastic b	NAD/ 3	NO
8008-06b-102tem	TEM Analysis: 12" Tan w/brown tile	NAD	N/A
8008-06c-103	12" Tan w/brown tile and mastic c	NAD/ 3	NO
8008-06b-104	12" Tan w/brown tile and mastic b	NAD/ 3	NO
8008-07-61	Asbestos cement siding, wall	15	NO
8008-07-100	Transite panel wall, interior	20	NO
8008-07-101	Transite siding, exterior (under aluminum)	20	NO

8008 Asbestos Summary (continued)

Sample #	Description [location]	Asbestos %	Friable?
8008-08-25	Asbestos cement panel, wall	15	NO
8008-08-27	Asbestos cement panel, ceiling	15	NO
8008-08-78	Asbestos cement panel, ceiling	15	NO
8008-08-100	Transite panel, ceiling	20	NO
8008-08-101	Transite panel, ceiling (remnants)	20	NO
09-0	Fire door material (assumed)	-	-
8008-10-100	Asphalt rolled roofing, South	NAD	N/A
8008-10-101	Asphalt rolled roofing, North	NAD	N/A
11-0	Boiler material (see other)	-	-
8008-12-2	Drywall	NAD	N/A
8008-12-3	Joint material	NAD	N/A
8008-12-6	Drywall (covered)	NAD	N/A
8008-12-12	Drywall	NAD	N/A
8008-12-13	Drywall	NAD	N/A
8008-12-14	Joint material	2	NO
8008-12-81	Drywall	NAD	N/A
8008-12-82	Joint material	2	NO
8008-12-85	Joint material	NAD	N/A
8008-12-86	Joint material	NAD	N/A
8008-12-87	Joint material	NAD	N/A
8008-12-88	Joint material, over plywood	NAD	N/A
8008-12-89	Joint material	NAD	N/A
8008-12-90	Joint material	NAD	N/A
8008-12-91	Joint material, over plywood	NAD	N/A
8008-12-92	Joint material	NAD	N/A
8008-12-93	Joint material	NAD	N/A
8008-12-94	Joint material	NAD	N/A
8008-12-95	Joint material, over plywood	NAD	N/A
8008-12-100	Drywall and joint material, ceiling	NAD	N/A
8008-12-101	Drywall and joint material, ceiling	NAD/ 2	NO
8008-12-102	Drywall and joint material, wall	NAD/ 2	NO
8008-12-103	Joint material, ceiling	NAD	N/A
8008-12-104	Drywall and joint material, wall	NAD	N/A
8008-12-105	Joint material, wall	NAD	N/A
8008-12-106	Drywall and joint material, wall	NAD/ 3	NO
8008-12-107	Drywall and joint material, ceiling (old ovhd)	NAD/ 2	NO
8008-12-108	Drywall and joint material, wall	NAD	N/A

8008 Asbestos Summary (continued)

Sample #	Description [location]	Asbestos %	Friable?
8008-13-1	2x4 Ceiling tile, worm/dot	NAD	N/A
8008-13-31	2x4 Ceiling tile, worm/dot	NAD	N/A
8008-13-100	2x4 Ceiling tile, type I	NAD	N/A
8008-14-15	Carpet mastic/ adhesive, Tan	NAD	N/A
8008-14-28	Carpet mastic/ adhesive, Tan	NAD	N/A
8008-14-36	Floor tile adhesive, Yellow	NAD	N/A
8008-14-72	Floor tile adhesive, Yellow [HM34]	NAD	N/A
8008-14-74	Floor tile adhesive, Yellow [HM35]	NAD	N/A
8008-14-76	Floor tile adhesive, Yellow [HM36]	NAD	N/A
8008-14-79	Floor tile adhesive, Yellow [HM37]	NAD	N/A
8008-14-84	Floor tile adhesive, Yellow [HM06]	NAD	N/A
8008-14-100	Carpet adhesive, Yellow	NAD	N/A
8008-15-18, 19	9" Red tile and mastic	NAD/ <1	N/A
8008-15-100	9" Red tile (false brick)	NAD	N/A
8008-16-20, 21	Green base cove and mastic	NAD	N/A
8008-17-22, 23	12" White w/green tile and adhesive	NAD	N/A
8008-17-100	12" White w/green tile	NAD	N/A
8008-18-26	Felt paper, behind HM08	NAD	N/A
8008-18-67	Felt paper, behind HM07	NAD	N/A
8008-18-100	Felt paper, behind HM07	NAD	N/A
8008-18-101	Felt paper/ vapor barrier, wall	NAD	N/A
8008-19-32, 33	Gray base cove and mastic	NAD	N/A
8008-20-34	12" Lt. Beige w/brown tile	NAD	N/A
8008-21-35	12" Bluish Gray tile	NAD	N/A
8008-22-39, 40	Brown base cove and mastic	NAD	N/A
8008-22-100	Brown vinyl base and adhesive	NAD	N/A
8008-23-43	2x4 Ceiling tile, patterned	NAD	N/A
8008-23-100	2x4 Ceiling tile, type II	NAD	N/A
8008-24-44, 45	12" White w/gray tile and adhesive	NAD	N/A
8008-24-100	12" White w/gray tile and adhesive	NAD	N/A
8008-25-60	Duct sealant, gray	NAD	N/A
8008-26-62	Fiberglass sealant	NAD	N/A
8008-26-100	Fiberglass sealant, Beige	NAD	N/A
8008-27-63	Gasket material	NAD	N/A

8008 Asbestos Summary (continued)

Sample #	Description [location]	Asbestos %	Friable?
8008-28-11	2x4 Ceiling tile, pinwheel	NAD	**N/A**
8008-28-100	2x4 Ceiling tile, type III	NAD	**N/A**
8008-29-16, 17	12" Off-white w/brown tile and **mastic**	NAD/ 2	**NO**
8008-29-37, 38	12"Off-white tile and **mastic** (covered)	NAD/ 2	**NO**
8008-30-24	Floor leveling compound, white	NAD	N/A
8008-30-100	Floor leveling compound, white	NAD	N/A
8008-30-101	Floor leveling compound, white	NAD	N/A
8008-31-46, 47	**12" Gray tile and mastic** (bottom layer)	5/ 3	**NO**
8008-31-100	**12" Gray tile and mastic** (under wood)	5/ 3	**NO**
8008-32-68	Tan base cove and mastic	NAD	N/A
8008-32-100	Tan base cove and adhesive	NAD	N/A
8008-33-69, 70	12" Lt. Brown tile and adhesive	NAD	N/A
8008-33-100	12" Beige w/lt. brown tile	NAD	N/A
8008-34-71	12" White w/gray flecks tile	NAD	N/A
8008-34-100	12" White w/gray tile and adhesive	NAD	N/A
8008-35-73	12" Multi-colored tile	NAD	N/A
8008-35-100	12" Multi-colored tile	NAD	N/A
8008-36-75	12" Gray w/gray tile	NAD	N/A
8008-36-100	**12" Gray (thin) tile**	3	**NO**
8008-36-101	12" Gray tile (under HM35)	NAD	N/A
8008-37-79	12" Gray speckled tile	NAD	N/A
8008-37-100	12" Gray speckled tile	NAD	N/A
8008-38-4, 5	12" Dark Gray floor tile and mastic	NAD	N/A
8008-38-100	12" Gray tile and adhesive	NAD	N/A
8008-50-100	Roofing sealant, silver	NAD	N/A
8008-50-101	Roofing sealant, silver	NAD	N/A
8008-50-102	Roofing sealant, silver	NAD	N/A
8008-51-100	**Roofing sealant, gray**	2	**NO**
8008-52-100	Pitch pocket tar, South	NAD	N/A
8008-52-101	Pitch pocket tar, North	NAD	N/A
8008-53-100	Roofing sealant, black (at flashings)	NAD	N/A
8008-54-100	Cloth lagging (on HM01 line)	NAD	N/A
8008-55-100	**Vinyl sheet flooring,** Tan mosaic	20	**NO**

8008 Asbestos Summary (continued)

Sample #	Description [location]	Asbestos %	Friable?
8008-56-100	12" Tan w/brown marbled tile and adhesive	NAD	N/A
8008-57-100	12" Beige w/brown marbled tile and adhesive	NAD	N/A
8008-58-100	2x4 Ceiling tile, type IV	NAD	N/A
8008-59-100 **8008-59-100tem**	**12" Gray w/gray chunk tile** TEM Analysis, **12" Gray w/gray chunk tile**	**2** **7.82**	**NO** **NO**
8008-60-100	12" Pink tile and adhesive/ mastic (patchy)	NAD	N/A
8008-61-100	Fiberboard wall panel	NAD	N/A
8008-62-100 **8008-62-101**	**Residual black mastic** (under carpet) **Residual black mastic** (under new flooring)	**3** **3**	**NO** **NO**
8008-63-100	2x4 Ceiling tile, type V	NAD	N/A
8008-64-100	2x4 Ceiling tile, textured	NAD	N/A
8008-65-100	Ceiling tile debris	NAD	N/A
8008-66-100	Miscellaneous sealant, white	NAD	N/A

1.1.2 8008 ACM Comments

HMs 01, 02, 03- Pipe Insulation and Fittings: Various Thermal System Insulation (TSI) materials were identified in multiple locations on the southside of the building, including the second floor loft area. The insulation materials are considered friable, and therefore regulated, ACM. There is an estimated 360 linear feet of ACM insulation present, including *Aircell*, *Magnesia*, and mudded insulations. Note: limited damage and debris is present above drop ceiling area of the southwest corner of the southwest break room.

HMs 31, 36, 59- Floor tile: These vinyl composite floor tiles were identified in the first floor south center kitchen under wood [HM31, 12" Gray], south central foyer [HM36, 12" Gray thin], and north center shop [HM59, 12" Gray chunk]. The ACM tile appears to be present under the existing flooring and wood in the kitchen area, and is assumed throughout since flooring could not be removed to verify. For reference, the material is Non-friable Category I ACM and improper disturbance may render asbestos fibers airborne. There is an estimated 1,788 square feet of ACM floor tile present. Note: previous ACM HM05, 9" Pink tile appeared to be removed from the building and was not identified during the current inspection. *See also ACM floor tile mastics under these and other HM numbers.*

HM06, 29, 31, 62- Floor tile mastic/adhesive, black: This material was identified in most southwestern areas of the building (old/ original sections), including as residual where new flooring now exists. Although the material is not considered hazardous or friable, removal is required to ensure "non-disturbance" during renovations and to ensure proper underlayment for new flooring. There is an estimated 2,400 square feet of this ACM present under 12" Tan w/brown tile [HM06], 12" Off-white w/brown tile [HM29], 12" Gray tile [HM31], and as residual mastic [HM62].

HMs 07, 08- Asbestos Cement panels and siding: These ACM have been identified as exterior siding under existing metal, ceiling and wall panel sheets, and as residual pieces where ceilings or walls have been incompletely removed. For reference, the material is Non-friable Category II ACM and improper disturbance may render asbestos fibers airborne. There is an estimated 6,604 square feet of this ACM present.

HM 12- Asbestos joint compound (associated with drywall): This ACM has been confirmed in the previous and current inspections as present on walls and ceilings in the southwest and main central sections of the building. It is believed these are the older sections since no ACM joint compound was identified in sections known to be more modern in construction. Under EPA regulations, demolition of the structure could occur with the material in place since the material as composite is less than 1% asbestos. However, during renovations, OSHA regulates the materials as separate and the asbestos standard applies to disturbance. Therefore, demolition actions occurring on designated walls and ceilings must be handled as asbestos Class II work. For reference, the material is Non-friable but improper disturbance may render asbestos fibers airborne. There is an estimated 16,878 square feet of drywall with 1,687 square feet of ACM joint compound present at the seams/ joints of wall and ceiling panels.

HM51- Roof sealant, gray: This material was identified as patching at flashings on the rolled asphalt roofing system. The material is not considered hazardous or friable and removal is not required. Multiple patches and sealants were tested and most were determined non-ACM. However, ACM roofing sealants may be covered with newer sealants and disturbance of roofing system components should be done with caution.

HM55- Vinyl sheet flooring: A tan mosaic pattern vinyl sheet flooring identified in the central restroom areas was determined to be ACM. The asbestos is present in the bottom felt layer. Although the material is presently considered Category I non-friable ACM, removal of this material is likely to disturb and damage the felts enabling fibers to become airborne and thus should be treated as a friable material. There is an estimated 144 square feet of ACM linoleum present.

1.1.3 8108 Samples

Inspection of 8108 was conducted by AH on 3 August 2015. No records of a previous inspection were provided. The current asbestos survey identified seven (7) homogenous suspect materials. The homogenous materials identified during the inspection include:

- Drywall panels,
- Roofing sealants,
- Miscellaneous sealants,
- Caulking,
- 2x4 Ceiling tiles, and
- Vinyl base and adhesive

Bulk sampling was performed on the suspect ACM found in the survey area. Eleven (11) samples were collected which included twelve (12) layers for analysis. A summary of sample results, current and previous, are provided in Table 1-2.

Table 1-2
8108 Asbestos Summary

Sample #	Description [location]	Asbestos %	Friable?
8108-01-01	Drywall panel, wall	NAD	N/A
8108-01-02	Drywall panel, wall	NAD	N/A
8108-01-03	Drywall panel, wall	NAD	N/A
8108-02-01	Roofing sealant, silver/black, roof	NAD	N/A
8108-02-02	Roofing sealant, black, bolt	NAD	N/A
8108-03-01	Miscellaneous sealant, black, vent stack	NAD	N/A
8108-04-01	Miscellaneous sealant, gray, electric conduit	NAD	N/A
8108-05-01	Caulking, white, wall vent	NAD	N/A
8108-06-01	2x4 Ceiling tile, I	NAD	N/A
8108-06-02	2x4 Ceiling tile, I	NAD	N/A
8108-07-01	4" Black vinyl base and adhesive	NAD	N/A

1.1.4 8108 ACM Comments

No asbestos containing materials were identified during inspection of 8108.

1.1.5 8136 Samples

Inspection of 8136 was conducted by AH on 3 August 2015. No records of a previous inspection were provided. No suspect ACM was identified for sampling.

1.1.6 8136 ACM Comments

No asbestos containing materials were identified during inspection of 8136.

1.1.7 8143 Samples

Inspection of 8143 was conducted by AH on 3 August 2015. No records of a previous inspection were provided. The current asbestos survey identified three (3) homogenous suspect materials. The homogenous materials identified during the inspection include:

- Roofing sealants, and
- Caulking

Bulk sampling was performed on the suspect ACM found in the survey area. Three (3) samples were collected which included three (3) layers for analysis. A summary of sample results, current and previous, are provided in Table 1-3.

Table 1-3
8143 Asbestos Summary

Sample #	Description [location]	Asbestos %	Friable?
8143-01-01	**Roofing sealant, silver**	**3**	**NO**
8143-01-02	Caulking, white, screw heads	NAD	N/A
8143-03-01	Tar sealant, ground	NAD	N/A

1.1.8 8143 ACM Comments

HM01- Roof sealant, silver: This material was identified as a roofing system coating over the entire roofing system. The material is not considered hazardous or friable and removal is not required for demolition. Since the metal panels have ACM attached, recycling cannot occur. The waste can be disposed of as standard construction/ demolition debris at any landfill accepting non-friable asbestos wastes. There is approximately 2,400 square feet of this ACM present. Note: delamination may occur and debris must be handled as asbestos waste.

1.2 RECOMMENDATIONS FOR ACM

The following general recommendations are provided to assist in the renovations of the existing structures with ACM. Note that any building material that is not identified as homogenous with those addressed in this report must be considered as an ACM unless additional testing indicates otherwise. Locations of samples and known ACM are indicated on the inspection drawings (Appendix A).

The following work practice should be followed whenever activities involving any ACM occur at this facility:

- Ensure any ACM is managed in accordance with Federal and Maryland regulations.

- Remove any ACM that may be disturbed during renovations or ensure the material will not be disturbed.
- Always keep any ACM adequately wet before, during, and after removal operations.
- Conduct activities in a manner which produces no visible emissions to the outside air.
- Handle and dispose of all ACM in accordance with Federal and Naval regulations.

Although work may be performed with the ACM in place, removal of the identified ACM that may be disturbed is recommended to provide a worksite free of identified ACM and therefore standard activities could proceed without concern (with regards to ACM). ACM will be impacted during renovation, construction, and demolition activities in all phases as shown in the following chart.

BUILDING	***PHASE***	***ACM IMPACTED***
8008	I	Floor tile
8008	II	Asbestos cement panels; Pipe insulation; Drywall joint compound; Floor tile and mastic/ adhesive; Vinyl sheet flooring
8008	III	Drywall joint compound; Floor tile and mastic/ adhesive
8008	IV	Pipe insulation; Asbestos cement panels
8008	V	Asbestos cement panels
8008	VI	Asbestos cement panels
8143	N/A	Roofing sealant, silver

Additional inspection information is included in the appendices on the lab reports of analysis chain of custody documents and building drawings.

1.3 CERTIFICATION

The AIHA and NVLAP Accredited laboratory selected to analyze the bulk samples for asbestos content by PLM and NIOSH method 7402 methods, equivalent to the "Interim Method for the Determination of Asbestos in Bulk Insulation Samples" (Appendix A to Subpart F in 40 CFR Part 763) was:

SANAIR TECHNOLOGIES LABORATORY, INC.
1551 OAKBRIDGE DR, SUITE B
POWHATAN, VA 23139
(804) 897-1177

The inspector who physically surveyed for ACM at the facility and who has received EPA-approved training as an asbestos inspector and management planner is:

DAVID W. DOBSON
AH ENVIRONMENTAL CONSULTANTS, INC.
11837 ROCK LANDING DRIVE, SUITE 300
NEWPORT NEWS, VA 23608
(757) 873-4959

SIGNATURE OF INSPECTOR: _____

The above-signed inspectors certify information contained within this asbestos inspection report is true and correct concerning site conditions at the time of survey only. Every reasonable attempt was made to identify all ACM. However, locations not accessible such as wall interiors may contain materials not yet identified. Roofing membrane was not damaged during sampling, and core samples were not collected.

This page left blank intentionally

2. LEAD

Since 1971, the construction industry has been required to protect workers from exposure to lead through engineering and work practice controls. The current OSHA regulations 29 CFR 1926.62 set the following limits for lead exposure including a permissible exposure limit (PEL) lead of 50 micrograms per cubic meter ($\mu g/m^3$), and an action level of 30 $\mu g/m^3$, as determined using an 8-hour time weighted average. Since lead-based paint has been determined to be a health threat, assessment of buildings for the presence of lead-based paint is required in order to prevent occupational exposure to personnel or the general public, and to enact appropriate control measures for lead hazards.

OSHA and EPA regulations must be followed when renovation or demolition work affects any lead based paint (LBP) or paints with detectable lead levels referred to as paint containing lead (PCL). X-Ray Fluorescence (XRF) testing of components was used as the primary testing method for Buildings 8008, 8108, 8136, and 8143 prior to renovation/ demolition actions.

A preconstruction inspection is not to be confused with a Housing and Urban Development (HUD) Title X lead inspection. The preconstruction inspections primary purpose is to identify major building components containing lead in order to properly address the lead during renovation/ demolition that may be impacted by the proposed work for the purpose of OSHA compliance. The inspection was conducted using the EPA's work practice standards for conducting lead-based paint activities (40 CFR 745.227) as a guide and all State and local regulations.

Disturbance of paint containing lead requires special training and initial exposure monitoring at a minimum. Above **0.5% by weight** (bulk paint) or **>0.75 mg/cm^2** (XRF in Maryland), paint is considered to be lead-based. However, in the interest of safety, lower thresholds are utilized in construction since OSHA standards 29 CFR 1926.62 (Lead in Construction) are invoked if <u>any lead</u> is present in the paint; there is <u>no minimum concentration level</u>.

These standards set forth the regulations that apply with regards to construction or renovation of painted materials or structures that contain detectable amounts of lead and not necessarily lead pigment containing items that have been manufactured.

An Innov-X, X-ray tube source, XRF instrument was used for this inspection (model #a-4000, serial number 9897). The unit was operated by a factory trained user in the standard lead paint test mode using the rules and procedures found in the Performance Characteristic Sheet (PCS) for the instrument. The XRF is not substrate dependent according the PCS, so no substrate corrections were required. The XRF was calibrated prior to use and at the end of the testing, and/or every four hours, whichever came first. Calibrations are noted on the X-ray fluorescence data sheets included in Appendix C. Quality control included calibrations to the NIST standard for XRF sampling and duplicate testing of the same component.

2.1 SAMPLING

XRF sampling does not require collection of material and is considered non-destructive. This state-of-the-art method for determining the composition of painted surfaces can quickly determine if a surface contains LBP/PCL or not, and provides sufficient data concerning the amount of lead contained in paint. Data is provided as recorded by the XRF unit at the time of survey using pre and post calibration, and by following the performance characteristic sheet of the equipment. Areas are immediately identified as coated with LBP/PCL using this method.

Most components tested are believed to contain several layers of paint film and are difficult to interpret. XRF and bulk paint analysis does not differentiate which layer of paint may contain lead. The results only indicate the amount of lead that is present in the sample/test location. Lead is likely to be present at a higher percentage in a particular layer than reported due to averaging the weight of other layers of paint into the calculation. For this reason, OSHA standards apply to any sample with detectable lead. Construction activities that impact these paints may result in exposure to lead, even though they are not technically considered lead-based paints.

Results of the lead testing conducted are presented in the following sections.

2.2 XRF RANGES

An inspection was performed on painted and limited non-painted components to be suspect for the presence of lead found at the project building. Readings were then taken of a

representative number of surfaces, dependent on the quantity of the particular material present. Although OSHA utilizes the term "any detectable lead", the amount of "detectable lead" is relevant in order to determine the potential for lead exposure. Information is presented in a lead range format to assist in determining protective measures and special procedures that may be required during renovation/ demolition activities. The readings were categorized as follows:

- Lead-based paint **[L]** or >**0.75 mg/cm^2** lead;
- Containing elevated lead levels **[E]** or between **0.75 and 0.50 mg/cm^2** lead;
- Containing lead of concern **[C]** or between **0.50 and 0.25 mg/cm^2** lead; and
- Detectable levels of lead **[D]** or between **0.25 and 0.05** mg/cm^2 lead.
- Readings below 0.05 mg/cm^2 lead were considered insignificant.

2.3 LEAD COMPONENTS

Lead inspections of project buildings were conducted on 3-6 August 2015. Three hundred eighty nine (389) readings were taken, which includes thirty-two (32) test standards for calibration. A summary of the components tested and determined to contain lead are presented in the following sections. A description of the component, including color and substrate is listed. The XRF reading numbers are also included for reference. The complete XRF sampling summary is presented in Appendix C.

2.3.1 8008 Lead Testing

Components tested and determined to be lead-based **[L]** or >0.75 mg/cm^2 lead include:

- Beige vinyl base cove [014]
- Beige asbestos cement ceiling [031]
- White ceramic bath fixture [034, 092, 119]
- White/ Beige drywall ceiling [044, 068, 076]
- Red metal fire pull [063]
- Beige vinyl blinds [064, 072, 083]
- Beige metal piping [069]
- Lt. Green drywall wall [075, 162, 163]
- White/ Lt. blue block wall [099, 100, 117, 197]
- Yellow metal cabinets [111, 112]
- Red metal fire can [154]
- White metal ext. wall [009, 010, 015, 017, 056, 058, 062]
- White ext. cement/ block wall [011, 012, 013, 060, 072]

Components tested at levels determined to contain elevated lead **[E]** or 0.75- 0.50 inclued:

- Lt. Brown laminate wall [052]

Components tested and determined to contain lead levels of concern **[C]** or 0.50 – 0.25 mg/cm^2 include:

- Lt. Brown laminate wall [049, 050, 051]
- White ceramic bath fixture [093]
- Yellow metal bollard [042]

Components tested and determined to contain detectable lead levels **[D]** or 0.25 – 0.05 mg/cm^2 lead include:

- Tan metal partition wall [036]
- White drywall ceiling [059, 164]
- Brown vinyl base cove [071]
- White laminate wall [073]
- White metal beams/ poles [107, 108, 205, 209, 221]
- White ext. block wall [059]
- White metal railing [066]

2.3.2 8108 Lead Testing

No components were tested and determined to be lead-based **[L]**, elevated lead **[E]** or lead levels of concern **[C]** (>0.75 to 0.25 mg/cm^2 lead).

Components tested and determined to contain detectable lead levels **[D]** or 0.25 – 0.05 mg/cm^2 lead include:

- White metal wall [005, 006, 010, 011]
- White metal beam [028]
- Yellow metal pipe [031]

2.3.3 8136 Lead Testing

Components tested and determined to be lead-based **[L]** or >0.75 mg/cm^2 lead include:

- White concrete floor [021]

No components were tested and determined to be elevated lead **[E]** or lead levels of concern **[C]** (>0.75 to 0.25 mg/cm^2 lead).

Components tested and determined to contain detectable lead levels **[D]** or 0.25 – 0.05 mg/cm^2 lead include:

- White metal post/ beam [012, 013]
- White/ Lt. Green metal ceiling/ wall [016, 025, 029, 035]
- Silver metal beam [039]

2.4 COMMENTS/RECOMMENDATIONS

Occupational exposure to persons conducting disturbance or removal of paint can result in elevated blood lead levels. Lead paint becomes an increased hazard when it deteriorates and oxidizes and/or is present as lead dust. Ingestion and potentially inhalation of resulting dusts may cause lead related health problems.

Based upon the lead sampling results, worker exposure testing would be required during the construction/ demolition activities in Building 8008 for areas known to have bulk lead paint and debris. Original walls and ceilings behind current walls/ ceilings contain loose and peeling paints and may pose additional hazards when disturbed. Under no circumstances should interior torch cutting of metals coated with lead since it poses an immediate hazard as heavy metal vapors resulting from the intense heat and are acutely more toxic than airborne particulates.

A toxicity characteristic leachate procedure (TCLP) test was not conducted on bulk structural components of this project since the mass of debris for disposal has not yet been determined/ produced for an accurate sample. A TCLP sample will be required for disposal of materials if they contain lead paints in poor condition destined for a construction/ demolition landfill. Note: when scrap metal is disposed of at a reclamation facility, the materials are exempt from regulation as a potentially hazardous waste [EPA 40 CFR 261.6 (a)(3)(ii)].

The following measures are recommended to conduct operations safely during renovation operations.

- Remove bulk lead paint debris and perform HEPA vacuum and wet wash cleaning of the work areas prior to commencing renovation/ demolition operations.
- Follow OSHA and EPA regulations when performing construction operations affecting paints containing lead.
- Inform facility personnel of the inspection findings.
- Conduct personal air monitoring when performing construction work on painted surfaces until a negative exposure assessments can be completed and approved by appropriate personnel.

2.5 CERTIFICATION

The AIHA and NVLAP Accredited laboratory selected to analyze the bulk material samples for lead and RCRA metals content, using EPA Method 6010C was:

SANAIR TECHNOLOGIES LABORATORY, INC.
1551 OAKBRIDGE DR, SUITE B
POWHATAN, VA 23139
(804) 897-1177

The EPA-approved and trained inspector who physically surveyed the project site is

DAVID W. DOBSON
AH ENVIRONMENTAL CONSULTANTS, INC.
11837 ROCK LANDING DRIVE, SUITE 300
NEWPORT NEWS, VA 23608
(757) 873-4959

SIGNATURE OF INSPECTOR: _____

The above-signed inspectors certify information contained within this inspection report is true and correct concerning site conditions at the time of survey only.

3. OTHER HAZARDS

In addition to asbestos, lead, various additional issues relevant to the project were included in the building assessment. The additional concerns assessed and protocols followed during the assessment are described in this section.

Older building demolition creates additional items of concern; fluorescent lighting fixtures have elemental mercury in the fluorescent bulbs and may also contain polychlorinated biphenyls (PCB) ballasts. Buildings may also contain mercury switches inside of thermostats, lead or other chemical containing batteries, and other materials of special concern. A brief narrative concerning the other hazards to be cognizant of are discussed below.

3.1 MERCURY

Mercury is a toxic elemental metal with unique properties, including being in a liquid state at room temperatures. Human intake of mercury is primarily through oral means. Inhalation of mercury vapor is another source of human exposure. Once absorbed, mercury in all forms is distributed via the blood steam to all tissues in the body. Chronic exposure to mercury primarily affects the central nervous system and kidneys.

Mercury is used in a wide variety of common products including:

- Fluorescent and neon lamps,
- Mercury vapor and high pressure sodium lamps,
- Switches and relays,
- Thermostats and regulators, and
- Thermometers and manometers,

3.1.1 Mercury Lamps

In recent years, the use of fluorescent and high-intensity discharge (HID) lamps has become the standard choice for lighting sources since they can use up to 50 percent less energy than incandescent lighting. However, fluorescent and HID lamps contain mercury and therefore must be properly managed. This includes new “low mercury” lamps. Low

mercury fluorescent lamps are currently in use and can be identified by looking at the metal end plates. Low mercury lamps have "green" and sometimes "gold" end caps, while standard lamps have unfinished aluminum caps. Although low mercury lamps contain approximately one-tenth the amount of mercury as standard lamps, they still must be handled properly.

Inspection of the project buildings identified approximately 750 fluorescent lamp tubes in various styles of lighting fixtures. There is approximately 3,700 linear feet of fluorescent lamp total.

3.1.2 Mercury Switch Inspection

Buildings were inspected for older style thermostats that are likely to contain mercury tilt switches. When an older thermostat was identified, the cover was removed to determine if a mercury-filled glass vial was present. The number and location of each mercury switch identified was noted on the field sketches.

No old style thermostats containing a mercury vial were identified during the building inspection. If any are identified during the course of renovation or demolition, they are likely to contain mercury switches. The mercury is in a liquid state, within a small glass vial.

3.2 PCBs

Another potential concern associated with building renovations is the presence of PCBs. Older fluorescent lighting fixtures have the potential to contain ballasts with PCB capacitors. Inspections included a visual survey of light fixtures to determine if pre-1980 fixtures were present. All ballasts manufactured after 1 July 1978 that do not contain PCBs are required to be clearly marked ***"NO PCBs"***. Ballasts without a date of manufacture or clearly marked ***"NO PCBs"*** must be assumed to contain PCBs.

PCBs are synthetic organic chemicals that were produced in the United States from 1929 to 1977. Due to their non-flammability, chemical stability, high boiling point and

electrical insulating properties, PCBs were used in hundreds of industrial and commercial applications including electrical, heat transfer, and hydraulic equipment; as plasticizers in paints, plastics and rubber products; in pigments, dyes and carbonless copy paper and many other applications. A major use of PCBs was in fluorescent light fixture ballasts (in the capacitor).

PCBs have been demonstrated to cause a variety of adverse health effects including cancer and a number of serious non-cancer health effects in animals. These effects include damage to the immune system, reproductive system, nervous system, and endocrine system. Studies in humans provide evidence for carcinogenic and non-carcinogenic effects of PCBs. Concern over PCBs in the environment led Congress in 1976 to enact §6(e) of the Toxic Substances Control Act (TSCA) that included among other things, prohibitions on the manufacture, processing, and distribution in commerce of PCBs.

Inspection of the light ballasts included in this project involved the disassembly of light fixtures to reveal the ballast. Information including manufacturer, model numbers, and condition were recorded. A cross reference was made to known listings of PCB ballast manufacturers to determine if the ballast should be assumed PCB containing. Ballasts were not disassembled.

Two (2) lighting fixtures were found to contain ballasts likely to be PCB containing. These units are located in Building 8008 in the old kitchen area. The units have been changed out to new electronic style ballasts, but the original ballasts (Universal) remain.

3.3 IAQ ISSUES

Indoor air quality (IAQ) concerns were noted during the inspection. Although presented for buildings that will remain occupied or renovated, the information is considered relevant to this and other buildings of the type.

3.3.1 Dusts

Significant dust loading was identified at most bathroom exhaust fans. Proper operation of these fans is critical in maintaining lowered humidity levels. Locations of heavy dust loading on the fans also exhibited mold growth typical of a high humidity environment.

Additionally, areas behind wall buildouts could not be properly assessed and are typically high dust and lead paint contaminated spaces.

3.3.2 Mold

Visible mold growth, high humidity/moisture levels, and other factors likely to produce conditions that would promote mold growth were not documented during the building assessments. No airborne mold concerns are expected during the renovation and demolition of the buildings. As previously mentioned, conditions behind existing wall build outs could not be determined. In addition, conditions are likely to change as HVAC equipment is modified and the building envelope is disturbed.

Any indication of mold growth or water/ moisture intrusion should be assessed and treated within 48 hours to prevent a mold outbreak. Correction of the water issues will correct the mold issues in most cases.

3.4 SOILS

Since demolition and excavation of the area will occur, the issue of soil disturbance is relevant. The perimeter of the buildings is currently asphalt and/or concrete adjacent, with soil areas to the west. No historical records indicating the location of underground storage tanks (UST) was provided. However, one suspect area was located and sampling was conducted as could be achieved.

The initial soil borings at the believed former UST and two subsequent soil borings shifting west were abandoned due to water infiltration at 1-2’ depth. Soil collection was further complicated by gravel fill causing sub-surface erosion when removed. One soil boring hole approximately 25’ west of the believed UST, and adjacent to the current

above ground tank was used to draw two soil samples. Where water influx was observed, there were no indications of residual petroleum products (odor, sheen to water surface).

Testing of the soils at the area included:

- Total petroleum hydrocarbons (TPH) as diesel range organics (DRO),
- Benzene, Toluene, Ethylbenzene, Xylene (BTEX), volatile organic compounds (VOCs) found in petroleum products , and
- Methyl tertiary-butyl ether (MTBE), a chemical compound resultant of the reaction of methanol and isobutylene, almost exclusively used as a fuel additive in fuels.

Results of sampling is shown in Table 3-1.

Table 3-1
Soil Summary

Sample #/ Description	DRO (mg/kg)	VOC's/ BTEX (µg/Kg)	MTBE (µg/Kg)
8008-S01/ Grab, west former UST, 7-8' depth, clay	83.3	BTE <2.05 X <6.15	<6.20
8008-S02/ Grab, west former UST, 12' depth, mix at water table	13.2	BTE <2.05 X <6.15	<5.13

Bold and underlined results indicate concerns or higher than acceptable results. Less than symbol (<) indicates results below laboratory detection limits. For detected DRO, the non-residential cleanup standard for soils is 620 mg/kg (ppm) and detectable Chrysene at 390 mg/kg. Based on these results, there is not a soil contamination concern at the believed former UST site. One above ground storage tank on a concrete pad labeled as fuel oil, is present. Inspection at the perimeter indicated no signs of leakage. It is assumed the tank can be removed and relocated intact and/or reused without concern.

3.5 OTHER ITEMS OF NOTE

Items of note for potential regulatory concern were noted during the inspection as follows:

- Exit signage may contain lead battery backup. Removal if required should be done with caution. All batteries (lead acid, NiMH, or NiCd) should be recycled. There is approximately four (4) such emergency exit signs.

- Emergency lighting will contain battery backup. Removal if required should be done with caution. All batteries (lead acid, NiMH, or NiCd) should be recycled. There are approximately twenty-six (26) such lights.

3.6 RECOMMENDATIONS

Broken or crushed, fluorescent and HID lamps must be managed as a hazardous waste. This can become costly when managing a large volume of lamps needing disposal. The Federal Government and most locales, have adopted disposal regulations for handling fluorescent and HID lamps as a universal waste based upon a "recycling presumption". Through recycling and proper handling of spent lamps as a universal waste, the burdens and liabilities placed upon disposers are reduced. The universal waste rule does not authorize disposal of mercury containing lamps in landfills, but has created a cost effective alternative for disposal through recycling.

Approved recycling facilities reduce lamps to their primary components of spent glass, aluminum, and phosphor and mercury powder. The spent glass and aluminum are sold to manufacture's for reuse. The phosphor and mercury powder is distilled and compounds are then reused in various manufacturing sectors which eliminates hazardous materials from entering the environment.

Although most light ballasts identified during the inspection do not contain PCBs, it is NAVFAC policy [specification 02 82 16.20] to dispose of all ballasts in an environmentally preferred manner. Therefore, all fluorescent light tubes (including those deemed low mercury), HID lights, and all ballasts should be packaged intact and sent to an approved recycling facility for disposal/recycling. Know PCB ballasts should only be handled by appropriately trained personnel (recommended 40 hour Hazardous Waste and Emergency Response- HAZWOPER).

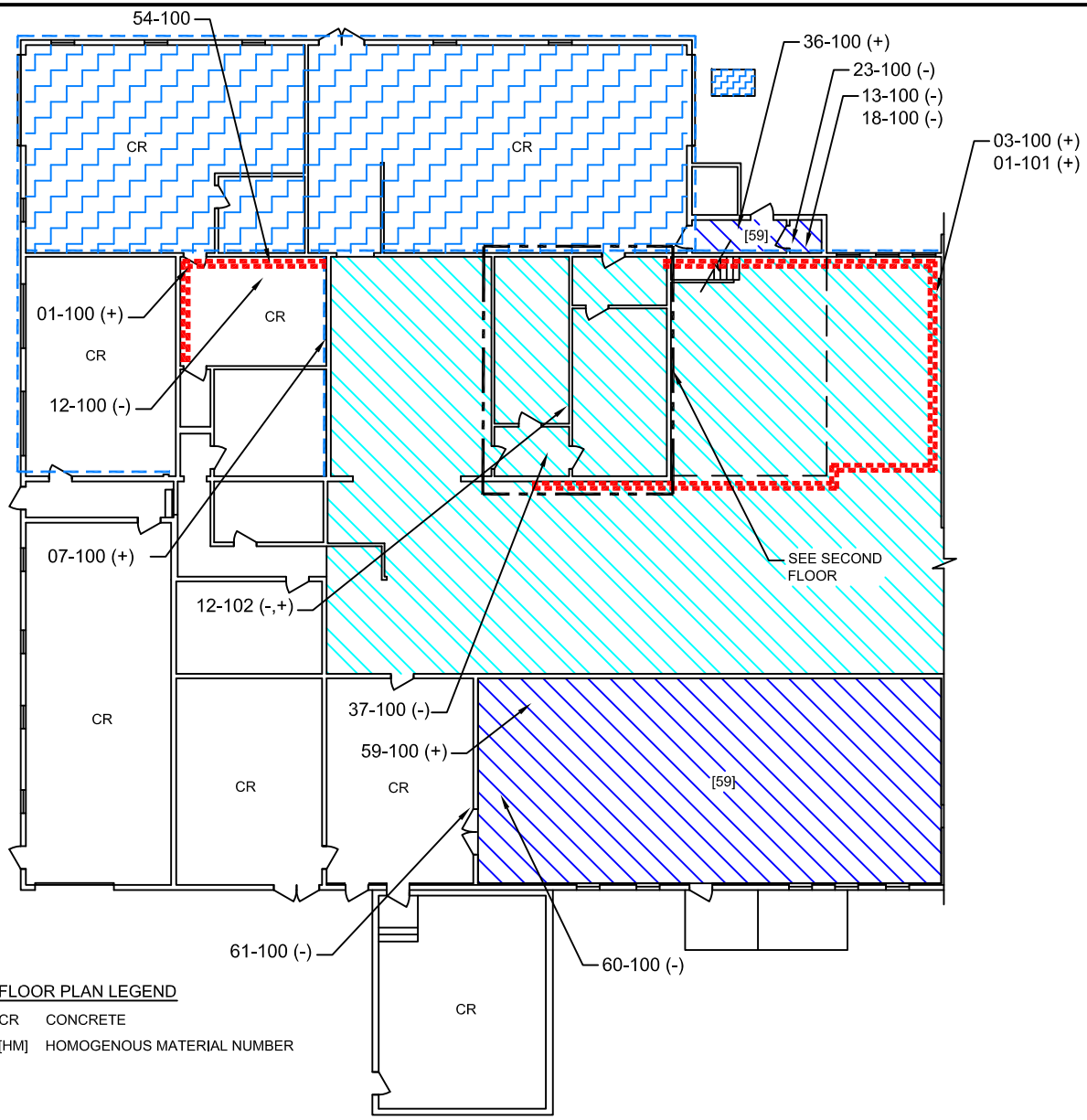
Implementation of a dust control plan is recommended to prevent dusts which may contain hazardous constituents from becoming airborne. Dust control is an integral part of asbestos and lead paint work. Since most demolition is related to asbestos and or lead

paint impact, it is recommended that a fully qualified asbestos and lead contractor perform abatements and selective demolitions. In this way, properly trained personnel with equipment are on-site in the event unforeseen hazards are identified.

This page left blank intentionally

HAZMAT Inspection Drawings

This page left blank intentionally



FLOOR PLAN LEGEND

CR CONCRETE

[HM] HOMOGENOUS MATERIAL NUMBER

SAMPLE LEGEND ID

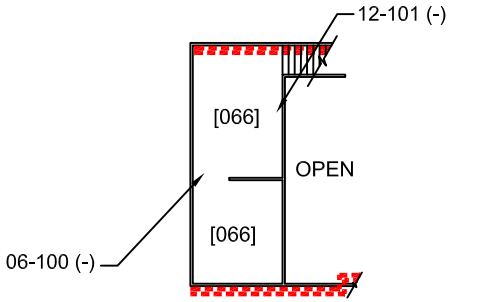
01-01 (+,-)

- SAMPLE IDENTIFICATION
- POSITIVE (+), NEGATIVE (-), OR TRACE (TR) FOR THE PRESENCE OF ASBESTOS
- HOMOGENOUS MATERIAL

BUILDING 8008
FIRST FLOOR A

8' 0' 8' 16' 32'

Scale in Feet



BUILDING 8008
SECOND FLOOR

3' 0' 3' 6' 12'

Scale in Feet

ACM LEGEND

- TRANSITE PANEL MATERIAL (WALL)
- TRANSITE PANEL MATERIAL (CEILING)
- PIPE INSULATION AND FITTINGS [HM01, 02, 03]
- DRYWALL JOINT COMPOUND WALLS/CEILINGS [HM12]
- GRAY (THIN) TILE [HM36], GRAY (CHUNK) TILE [HM59], GRAY [HM31]
- MASTIC, UNDER 12" TAN W/BROWN [HM06]
- VINYL SHEET FLOORING [HM55]

SYM.	DESCRIPTION	DATE	APPROVED

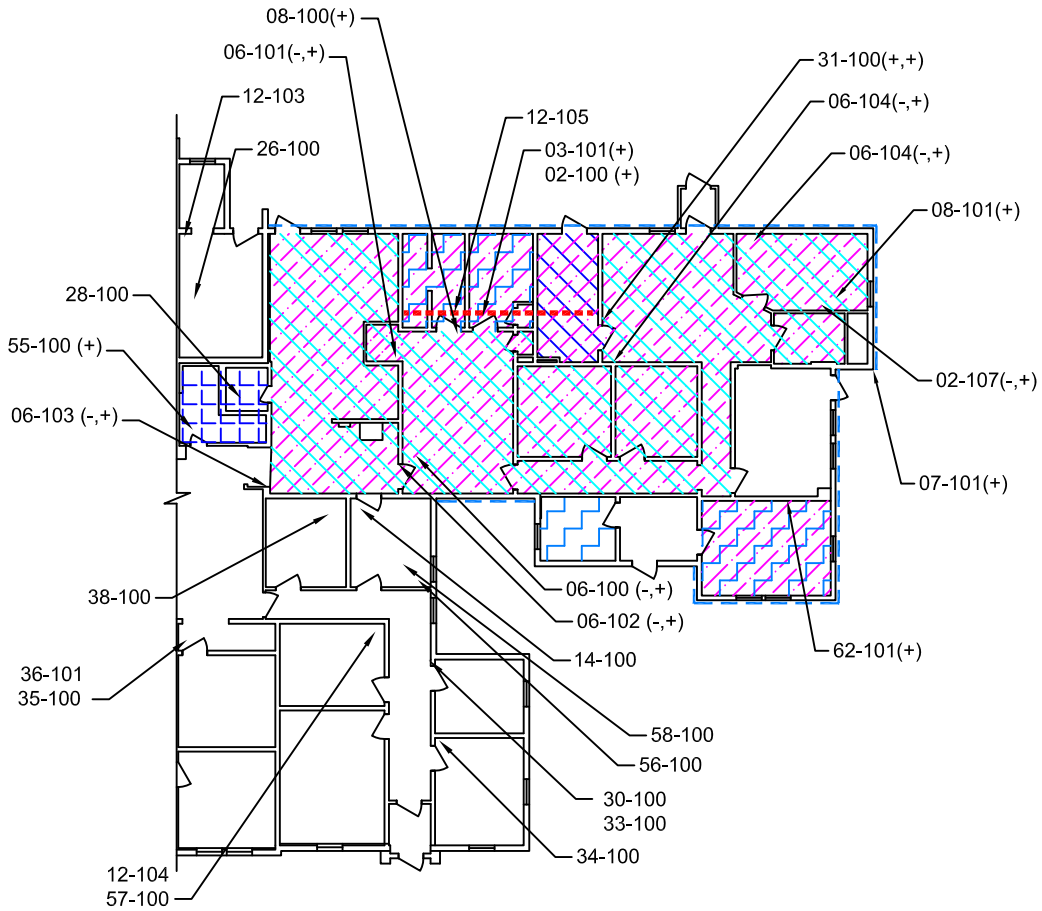
REVISIONS

AH Environmental Consultants

BURNS McDONNELL

HAZMAT ASSESSMENT
BUILDING 8008
NAS PATUXENT RIVER, MD

CHECKED BY: DD
DRAWN BY: ARD
SCALE: GRAPHIC
DATE: MAY 2015
SHEET 1 OF 2



BUILDING 8008
FIRST FLOOR B

8' 0' 8' 16' 32'

Scale in Feet

FLOOR PLAN LEGEND

CR CONCRETE

[HM] HOMOGENOUS MATERIAL NUMBER

SAMPLE LEGEND ID

01-01 (+,-)

- SAMPLE IDENTIFICATION
- POSITIVE (+), NEGATIVE (-), OR TRACE (TR) FOR THE PRESENCE OF ASBESTOS
- HOMOGENOUS MATERIAL

ACM LEGEND

- TRANSITE PANEL MATERIAL (WALL)
- TRANSITE PANEL MATERIAL (CEILING)
- PIPE INSULATION AND FITTINGS [HM01, 02, 03]
- DRY WALL JOINT COMPOUND WALLS/CEILINGS [HM12]
- GRAY (THIN) TILE [HM36], GRAY (CHUNK) TILE [HM59], GRAY [HM31]
- MASTIC, UNDER 12" TAN W/BROWN [HM06]
- VINYL SHEET FLOORING [HM55]

SYM.	DESCRIPTION	DATE	APPROVED

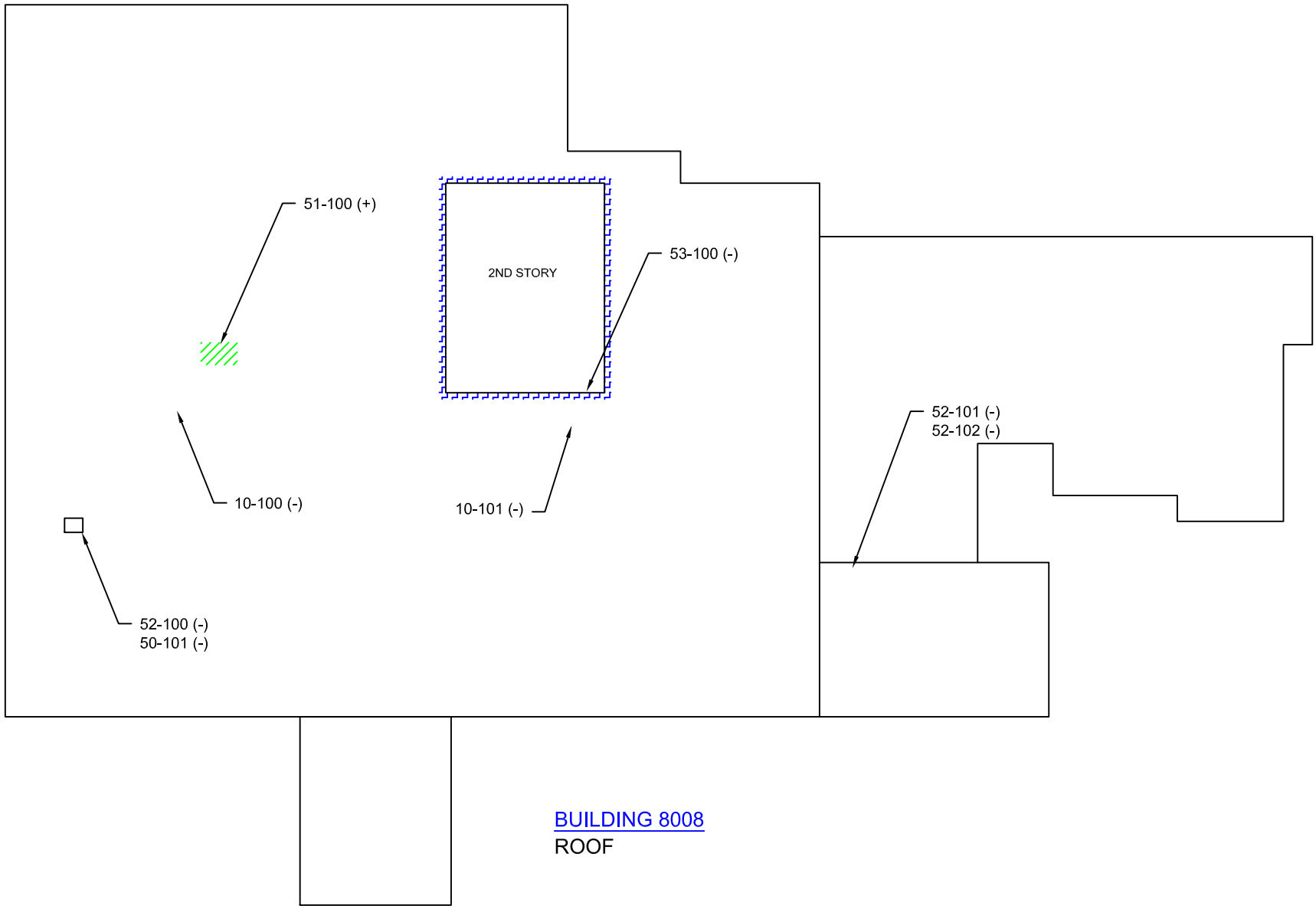
REVISIONS

AH Environmental Consultants

BURNS McDONNELL

HAZMAT ASSESSMENT
BUILDING 8008
NAS PATUXENT RIVER, MD

CHECKED BY: DD
DRAWN BY: ARD
SCALE: GRAPHIC
DATE: MAY 2015
SHEET 1 OF 2



BUILDING 8008
ROOF

SAMPLE LEGEND ID

01-01 (+,-)

- SAMPLE IDENTIFICATION
- POSITIVE (+), NEGATIVE (-), OR TRACE (TR) FOR THE PRESENCE OF ASBESTOS
- HOMOGENOUS MATERIAL

ACM LEGEND

- TRANSITE PANEL MATERIAL [HM07]
- ROOFING SEALANT, GRAY (PATCH)

REVISIONS

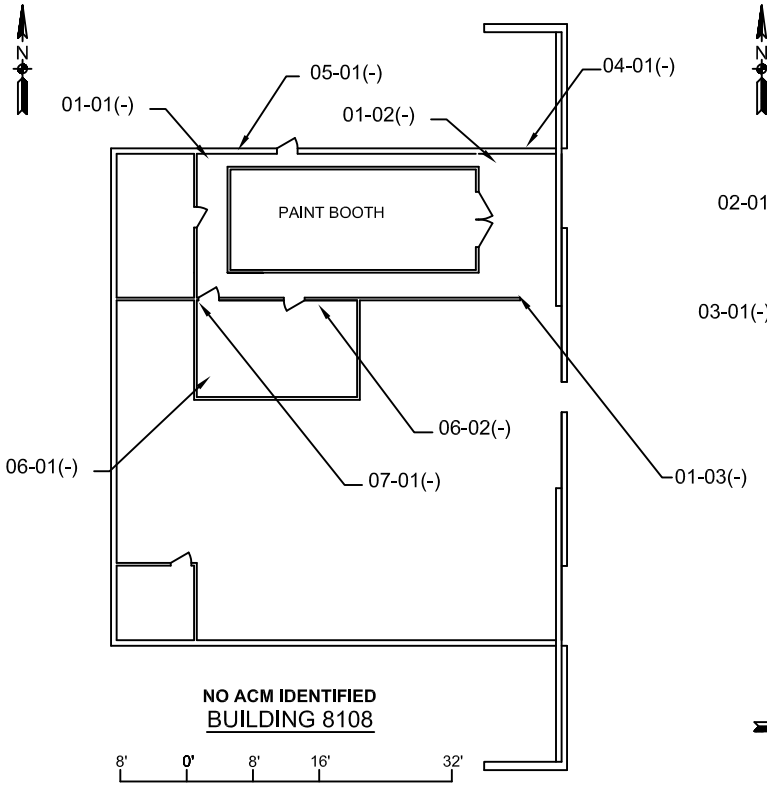
SYM.	DESCRIPTION	DATE	APPROVED

AH Environmental Consultants

BURNS McDONNELL

HAZMAT ASSESSMENT
BUILDING 8008
NAS PATUXENT RIVER, MD

CHECKED BY: DD
DRAWN BY: ARD
SCALE: GRAPHIC
DATE: SEPTEMBER 2015
SHEET 1OF 2

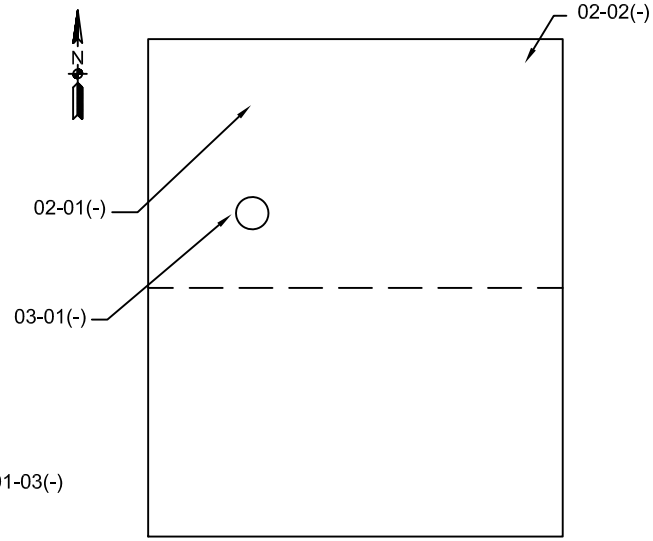


NO ACM IDENTIFIED

BUILDING 8108

8' 0' 8' 16' 32'

Scale in Feet

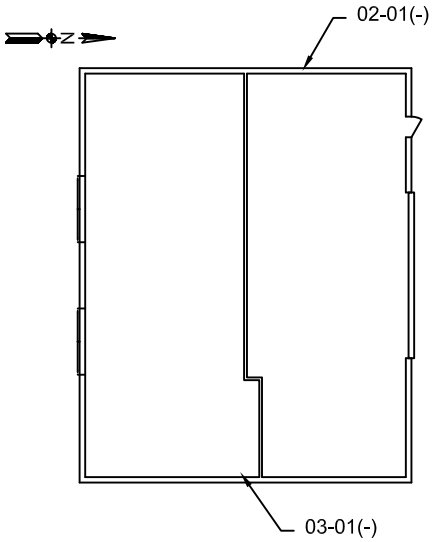


NO ACM IDENTIFIED

BUILDING 8108-ROOF

8' 0' 8' 16' 32'

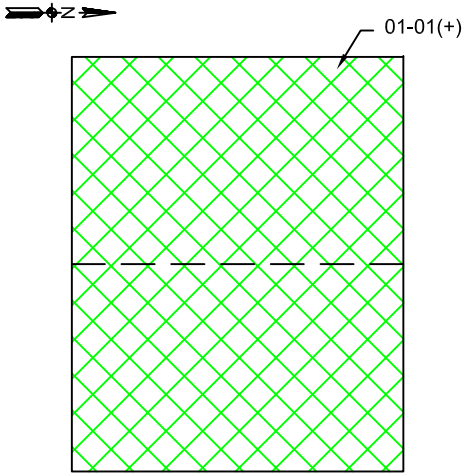
Scale in Feet



BUILDING 8143

8' 0' 8' 16' 32'

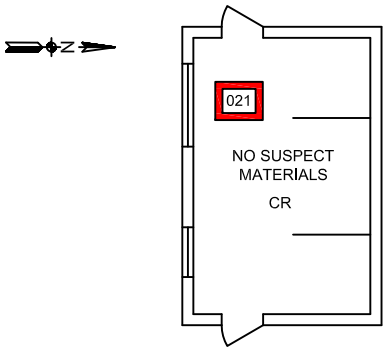
Scale in Feet



BUILDING 8143-ROOF

8' 0' 8' 16' 32'

Scale in Feet



NO ACM IDENTIFIED

BUILDING 8136

4' 0' 4' 8' 16'

Scale in Feet

FLOOR PLAN LEGEND

CR CONCRETE

[HM] HOMOGENOUS MATERIAL NUMBER

SAMPLE LEGEND ID

01-01 (+,-)

- SAMPLE IDENTIFICATION
- POSITIVE (+), NEGATIVE (-), OR TRACE (TR) FOR THE PRESENCE OF ASBESTOS
- HOMOGENOUS MATERIAL

LEAD LEGEND

LBP - LEAD BASED PAINT
= XRF READING

ACM LEGEND

ROOF SEALANT/SILVER [HM01]

REVISIONS

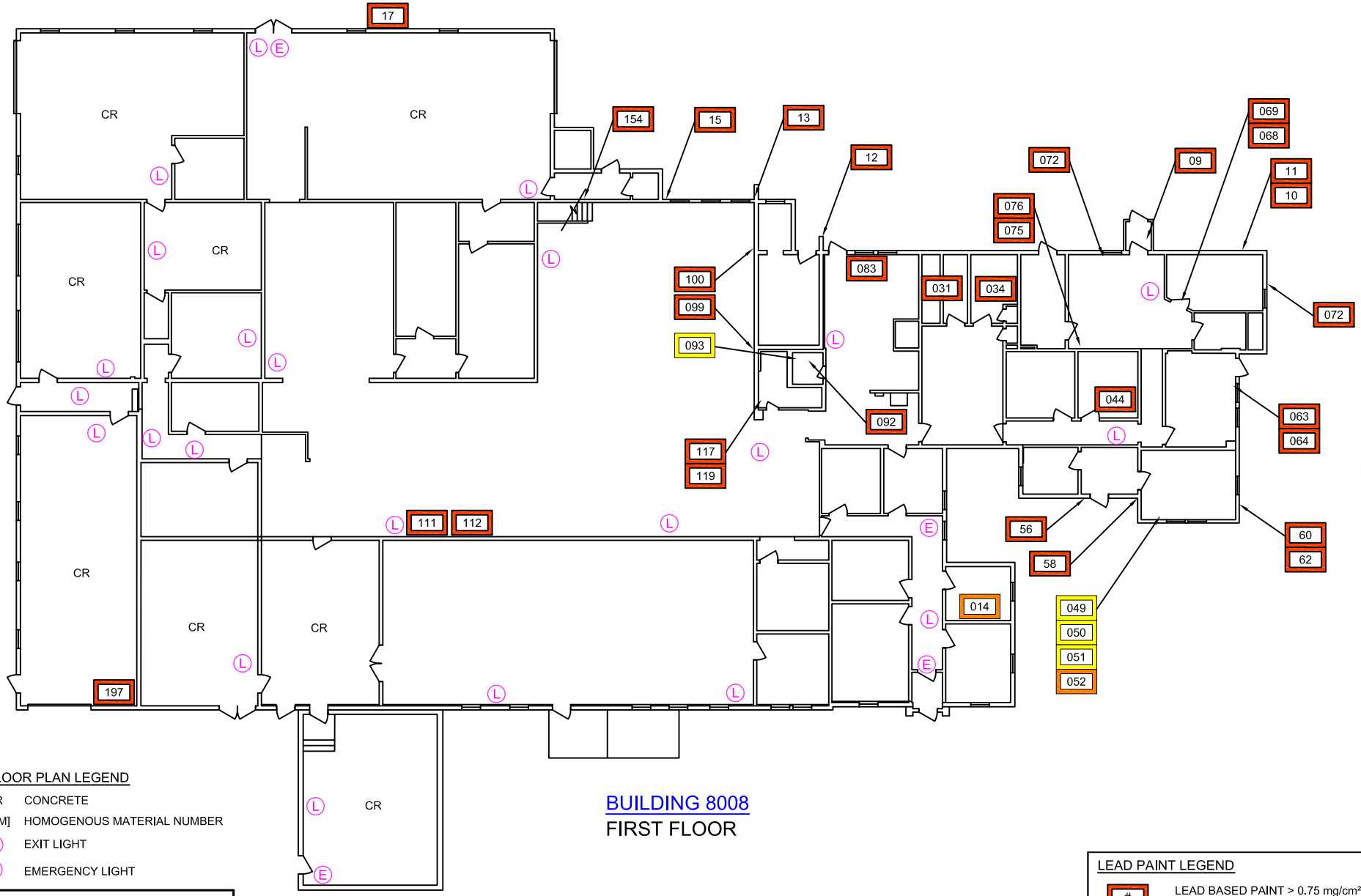
SYM.	DESCRIPTION	DATE	APPROVED

AH Environmental Consultants

BURNS McDONNELL

HAZMAT ASSESSMENT
BUILDING 8008
NAS PATUXENT RIVER, MD

CHECKED BY: DD
DRAWN BY: ARD
SCALE: GRAPHIC
DATE: MAY 2015
SHEET: 2 OF 2



BUILDING 8008
FIRST FLOOR

FLOOR PLAN LEGEND

CR	CONCRETE
[HM]	HOMOGENOUS MATERIAL NUMBER
E	EXIT LIGHT
L	EMERGENCY LIGHT

SAMPLE LEGEND ID

01-01 (+,-)

- SAMPLE IDENTIFICATION
- POSITIVE (+), NEGATIVE (-), OR TRACE (TR) FOR THE PRESENCE OF ASBESTOS
- HOMOGENOUS MATERIAL

LEAD PAINT LEGEND

#	LEAD BASED PAINT > 0.75 mg/cm²
#	ELEVATED LEAD BETWEEN 0.75 - 0.50 mg/cm²
#	LEAD OF CONCERN BETWEEN 0.49 - 0.25 mg/cm²

REVISIONS

SYM.	DESCRIPTION	DATE	APPROVED

AH Environmental Consultants

BURNS McDONNELL

HAZMAT ASSESSMENT
BUILDING 8008
NAS PATUXENT RIVER, MD

CHECKED BY: DD
DRAWN BY: ARD
SCALE: GRAPHIC
DATE: MAY 2015
SHEET 1 OF 2

Inspection Photo-Log

This page left blank intentionally

8008 ACM: HM01 Magnesia insulation and fittings (typical).

8008 ACM: HM02 Aircell insulation (typical).

8008 ACM: HM06 12" Tan/ Beige tile with ACM mastic (typical).

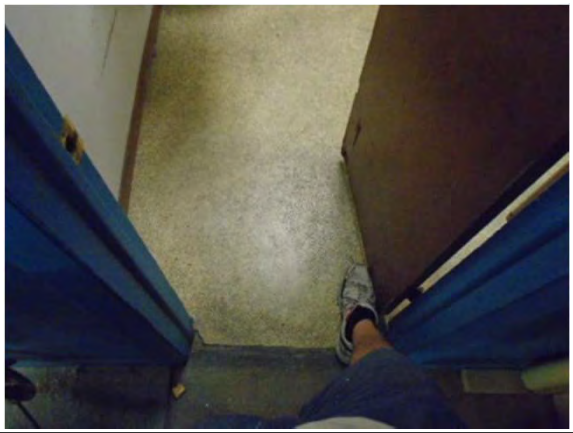
8008 ACM: HM07 asbestos cement siding, under metal (typical).

8008 ACM: HM08 asbestos cement panel, walls and ceilings (typical).

8008 ACM: HM12 joint compound contains asbestos, older sections.

8008 ACM: HM31 12" Gray tile and mastic, bottom layer (typical).

8008 ACM: HM36 ACM floor tile (typical).



8008 ACM: HM55 vinyl sheet flooring (typical).

8008 ACM: HM59 12" Gray chunk tile (typical).

8008 ACM: HM62 Typical residual mastic under carpet/ other floorings.

8143 ACM: HM01 Silver roofing sealant throughout.

BURNS McDONNELL

AH Environmental
Newport News, VA

Hazardous Material Inspection
8008, 8108, 8136, 8143
NAS Patuxent River, Webster Field OLF, Maryland

8008 Lead: Beige asbestos cement ceilings (typical).

8008 Lead: Beige vinyl mini-blinds (typical).

8008 Lead: White/ beige drywall ceilings (typical).

8008 Lead: Lt. Green older drywall walls (typical).

8008 Lead: White block walls (typical).

8008 Lead: Yellow metal storage cabinets (typical).

8008 Lead: Red metal fire cans.

8008 Lead: White exterior walls (possible positive from siding below).

8008 Lead: White exterior block walls (typical).

8008 Elevated Lead: Brown laminate wall (third layer).

8136 Lead: White concrete flooring tested positive for lead via XRF.

8008 PCBs: Universal ballast to be handled as PCB containing.

BURNS McDONNELL

AH Environmental
Newport News, VA

Hazardous Material Inspection
8008, 8108, 8136, 8143
NAS Patuxent River, Webster Field OLF, Maryland

Laboratory Reports of Analysis and XRF Readings

This page left blank intentionally

15024020

AH Environmental Consultants Inc. **Bulk ASBESTOS Analysis**

Date: 4 Aug 2015 *Location:* PAX-WEBSTER OLF

Project: AH # 122-71 *Building:* 8008

Sample Number (Bldg- Type- Number)	Sample Description/ Location
8008-07-100	Transite panel wall, interior [130]
8008-07-101	Transite panel siding, exterior (under Alum.) [Ex 101]
8008-10-100	Asphalt rolled roofing, South [ov. 126]
~~8008-10b-100~~	+ Tar @ seams
8008-10-101	Asphalt rolled roofing, North [ov. 112]
~~8008-10b-101~~	+ Tar @ seams
8008-50-100	Roofing sealant, Silver [ov. 123]
8008-51-100	Roofing sealant, Gray [ov. 119]
8008-52-100	Pitch pocket tar, South [ov 126]
8008-50-101	Roofing sealant, Silver (@ 52-100) [ov. 126]
8008-52-101	Pitch pocket tar, North [ov. 103]
8008-50-102	Roofing sealant, Silver (@ 52-101) [ov. 103]
8008-53-100	Roofing sealant, black, flashing @ perimeter (upper)
8008-01-100	Pipe insulation, Mag (white) [130]
8008-54-100	Cloth lagging (on 01-100) [130]

Notes 5 DAY TAT, PLM

Ex = Exterior Side, OV = over (room)

Relinquished by (Signature)	Date	Received by (Signature)	Company	Date
Dobson	8/5/15			
Relinquished by (Signature)	**Date**	**Received by (Signature)**	**Company**	**Date**

Page 1 of ____

11837 Rock Landing Dr., Suite 300
Newport News, VA 23606

PH: (757) 873-4959
FX: (757) 873-4952
ddobson@ahenv.com

AC 9:55AM

AUG 10 2015

15024020

AH Environmental Consultants Inc. **Bulk** ASBESTOS **Analysis**

Date: 4 Aug 2015 *Location:* PAX-WEBSTER OLF
Project: AH # 122-71 *Building:* 8008

Sample Number (Bldg- Type- Number)	Sample Description/ Location	
8008-12-100	Drywall & joint mat'l, ceiling	[130]
8008-36-100	12" Gray tile (thin)	
8008-06-100	12" Tan w/ brown tile	[200]
8008-12-101	Drywall & joint mat'l, ceiling	[200]
8008-12-102	Joint material, wall	[134D]
8008-37-100	12" Gray speckled tile	[134C]
8008-18-100	Felt paper/vapor barrier (behind [07])	[133]
8008-13-100	2x4 Ceiling tile, I	[133]
8008-28-100	2x4 Ceiling tile, ~~III~~ II	[134]
8008-01-101	Pipe insulation, MAG ~~w/thin lag~~	[112]
8008-03-100	Mudded fitting, HMO1 line w/thin lagging	[112]
8008-26-100	Fiberglass sealant, beige	[Furnace]
8008-12-103	Joint mat'l, ceiling (New)	[Furnace]
8008-55-100	Vinyl sheet flooring, Tan/Gray MOSAIC	[men's]
8008-28-100	2x4 Ceiling tile, ~~III~~	[women's]

Notes 5 Day TAT, PLM

Relinquished by (Signature)	Date	Received by (Signature)	Company	Date
DDobson	8/5/15			
Relinquished by (Signature)	**Date**	**Received by (Signature)**	**Company**	**Date**

Page 2 of ____

11837 Rock Landing Dr., Suite 300
Newport News, VA 23606

PH: (757) 873-4959
FX: (757) 873-4952
ddobson@ahenv.com

0

MC AUG 10 2015 8:55AM

150240W

AH Environmental Consultants Inc. **Bulk** ASBESTOS **Analysis**

Date: 4 August 2015 *Location:* PAX-WEBSTER OLF
Project: AH # 122-71 *Building:* 8008

Sample Number (Bldg- Type- Number)	Sample Description/ Location	
8008-35-100	12" Multicolor tile	[119]
8008-36-101	12" Gray tile + adhesive (under [35])	[119]
8008-32-100	Tan base cove + adhesive	[113 hall]
8008-56-100	12" ~~Lt. brown~~ Tan w/ brown marbled tile tile + adhesive	[114 hall]
8008-33-100	12" Beige/Lt. brown tile	[116 hall]
8008-30-100	Floor leveling compound, white	[116 hall]
8008-34-100	12" white w/gray tile + adhesive	[116]
8008-38-100	12" Gray tile + adhesive	[113]
8008-12-104	Drywall + joint mat'l, wall	[118]
8008-57-100	12" Beige w/brown marbled tile + adhesive	[118]
8008-58-100	2x4 Ceiling tile, IV	[114]
8008-59-100*	12" Gray w/gray chunk tile	[122]
8008-60-100	12" Pink tile + adhesive/mastic (patchy)	[122]
8008-61-100	Fiberboard wall panel	[124]
8008-14-100	Carpet adhesive	[114]

Notes 5 DAY TAT - PLM
* Analyze tile material PLM + TEM; mastic/adhesive PLM ONLY

Relinquished by (Signature)	Date	Received by (Signature)	Company	Date
DOBSON	8/5/15			
Relinquished by (Signature)	**Date**	**Received by (Signature)**	**Company**	**Date**

Page 3 of ____

11837 Rock Landing Dr., Suite 300
Newport News, VA 23606

PH: (757) 873-4959
FX: (757) 873-4952
ddobson@ahenv.com

MC AUG 10 2015 8:55AM

15024020

AH Environmental Consultants Inc. **Bulk Asbestos Analysis**

Date: 4/5 August 2015 *Location:* PAX-WEBSTER OLF
Project: AH # 122-71 *Building:* 8008

Sample Number (Bldg- Type- Number)	Sample Description/ Location	
8008-02-100	Pipe insulation, Aircell	[ov. 108 MENS]
8008-03-101	Mudded fitting (on 02-100 line)	[ov. 108 MENS]
8008-08-100	Transite panel, Ceiling	[ov. 108 MENS]
8008-12-105	Joint mat'l, wall	[108 MENS]
8008-06-101*	12" Tan w/brown tile + mastic (a.)	[108 closet] a.
8008-06-102*	12" Tan w/brown tile + mastic (b.)	[114A east] b.
8008-62-100	Residual mastic, black (under ©)	[108]
8008-06-103	12" Tan w/brown tile + mastic (c.)	[114A east]
8008-62-101	Residual mastic, black (under new)	[104]
8008-17-100	12" white w/green tile	[105]
8008-30-101	Floor leveling compound, white	[105]
8008-15-100	9" Red (false brick) tile	[104 Foy]
8008-63-100	2'x4' Ceiling tile, V (chicken foot + dot)	[102]
8008-06-104	12" Tan w/brown tile + mastic (b.)	[102]
8008-22-100	Brown vinyl base + adhesive	[104 restrm]

Notes 5 DAY TAT - PLM
* ANALYZE TILE MAT'L PLM + TEM; MASTIC PLM ONLY

Relinquished by (Signature)	Date	Received by (Signature)	Company	Date
DOBSON	8/5/15			
Relinquished by (Signature)	**Date**	**Received by (Signature)**	**Company**	**Date**

Page 4 of ____

11837 Rock Landing Dr., Suite 300
Newport News, VA 23606

PH: (757) 873-4959
FX: (757) 873-4952
ddobson@ahenv.com

MC AUG 10 2015 8:55AM

1502 4020

AH Environmental Consultants Inc. **Bulk ASBESTOS Analysis**

Date: 5 August 2015 *Location:* PAX-WEBSTER OLF

Project: AH # 122-71 *Building:* 8008

Sample Number (Bldg- Type- Number)	Sample Description/ Location
8008-64-100	2'x4' Ceiling tile, textured [108 closet]
8008-12-106	Drywall + joint mat'l, wall [101]
8008-31-100	12" Gray tile + mastic (under Wd) [100]
8008-24-100	12" white w/gray tile + adhesive (over Wd) [100]
8008-08-101	Transite panel mat'l, remnant ceiling [102]
8008-12-107	Joint mat'l, ceiling (old ovhd.) [102]
8008-65-100	Ceiling tile debris [103]
8008-18-101	Felt paper/vapor barrier, wall [114A]
8008-12-108	Drywall + joint mat'l, wall [hall @ 117]
8008-66-100	Misc. sealant, white [Ext. west]

Notes 5 DAY TAT - PLM

Relinquished by (Signature)	Date	Received by (Signature)	Company	Date
DDobson	8/6/15 ~~8/6/20~~			
Relinquished by (Signature)	**Date**	**Received by (Signature)**	**Company**	**Date**

Page 5 of ____

11837 Rock Landing Dr., Suite 300
Newport News, VA 23606

PH: (757) 873-4959
FX: (757) 873-4952
ddobson@ahenv.com

MC AUG 10 2015 8:55AM

SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: http://www.sanair.com E-mail: iaq@sanair.com

SanAir ID Number

15024020

FINAL REPORT

Name: AH Environmental Consultants, Inc.
Address: 11837 Rock Landing Drive
Suite 300
Newport News, VA 23606

Project Number: 122-71
P.O. Number:
Project Name: Pax-Webster OLF 8008

Collected Date: 8/4/2015
Received Date: 8/10/2015 8:55:00 AM
Report Date: 8/15/2015 6:29:14 PM
Analyst: Pisula, Nicholas

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
8008-07-100 / 15024020-001	Grey Non-Fibrous Homogeneous		80% Other	20% Chrysotile

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
8008-07-101 / 15024020-002	Grey Non-Fibrous Homogeneous		80% Other	20% Chrysotile

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
8008-10-100 / 15024020-003	White Non-Fibrous Heterogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
8008-10-101 / 15024020-004	White Non-Fibrous Heterogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
8008-50-100 / 15024020-005	Silver Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
8008-51-100 / 15024020-006	Grey Non-Fibrous Homogeneous		98% Other	2% Chrysotile

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
8008-52-100 / 15024020-007	Black Non-Fibrous Homogeneous		100% Other	None Detected

Certification

Signature: Nick Pisula
Date: 8/15/2015

Reviewed: Sandra Sobrino
Date: 8/15/2015

SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: http://www.sanair.com E-mail: iaq@sanair.com

SanAir ID Number

15024020

FINAL REPORT

Name: AH Environmental Consultants, Inc.
Address: 11837 Rock Landing Drive
Suite 300
Newport News, VA 23606

Project Number: 122-71
P.O. Number:
Project Name: Pax-Webster OLF 8008

Collected Date: 8/4/2015
Received Date: 8/10/2015 8:55:00 AM
Report Date: 8/15/2015 6:29:14 PM
Analyst: Pisula, Nicholas

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
8008-50-101 / 15024020-008	Silver Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
8008-52-101 / 15024020-009	Black Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
8008-50-102 / 15024020-010	Silver Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
8008-53-100 / 15024020-011	Black Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
8008-01-100 / 15024020-012	White Non-Fibrous Homogeneous		80% Other	20% Amosite

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
8008-54-100 / 15024020-013	White Fibrous Homogeneous	95% Glass	5% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
8008-12-100 / 15024020-014 Drywall	Grey Non-Fibrous Homogeneous	5% Cellulose	95% Other	None Detected
8008-12-100 / 15024020-014 Joint Compound	White Non-Fibrous Homogeneous		100% Other	None Detected

Certification

Signature: Nick Eil
Date: 8/15/2015

Reviewed: Sandra Sobrino
Date: 8/15/2015

SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: http://www.sanair.com E-mail: iaq@sanair.com

SanAir ID Number

15024020

FINAL REPORT

Name: AH Environmental Consultants, Inc.
Address: 11837 Rock Landing Drive
Suite 300
Newport News, VA 23606

Project Number: 122-71
P.O. Number:
Project Name: Pax-Webster OLF 8008

Collected Date: 8/4/2015
Received Date: 8/10/2015 8:55:00 AM
Report Date: 8/15/2015 6:29:14 PM
Analyst: Pisula, Nicholas

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8008-36-100 / 15024020-015	Grey Non-Fibrous Homogeneous		97% Other	3% Chrysotile

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8008-06-100 / 15024020-016	Tan Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8008-12-101 / 15024020-017 Drywall	Grey Non-Fibrous Homogeneous	5% Cellulose	95% Other	None Detected
8008-12-101 / 15024020-017 Joint Compound	Tan Non-Fibrous Homogeneous		98% Other	2% Chrysotile

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8008-12-102 / 15024020-018 Drywall	Grey Non-Fibrous Homogeneous	5% Cellulose	95% Other	None Detected
8008-12-102 / 15024020-018 Joint Compound	Tan Non-Fibrous Homogeneous		98% Other	2% Chrysotile

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8008-37-100 / 15024020-019	Grey Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8008-18-100 / 15024020-020	Black Fibrous Homogeneous	70% Cellulose	30% Other	None Detected

Certification

Signature: Reviewed: Sandra Sobrino

Date: 8/15/2015 Date: 8/15/2015

SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: http://www.sanair.com E-mail: iaq@sanair.com

SanAir ID Number

15024020

FINAL REPORT

Name: AH Environmental Consultants, Inc.
Address: 11837 Rock Landing Drive
Suite 300
Newport News, VA 23606

Project Number: 122-71
P.O. Number:
Project Name: Pax-Webster OLF 8008

Collected Date: 8/4/2015
Received Date: 8/10/2015 8:55:00 AM
Report Date: 8/15/2015 6:29:14 PM
Analyst: Pisula, Nicholas

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8008-13-100 / 15024020-021	White Fibrous Homogeneous	60% Cellulose 15% Glass 15% Min. Wool	10% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8008-23-100 / 15024020-022	White Fibrous Homogeneous	60% Cellulose 15% Glass 15% Min. Wool	10% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8008-01-101 / 15024020-023	White Non-Fibrous Homogeneous		80% Other	20% Amosite

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8008-03-100 / 15024020-024	Grey Fibrous Homogeneous		40% Other	60% Chrysotile

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8008-26-100 / 15024020-025	Beige Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8008-12-103 / 15024020-026	White Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8008-55-100 / 15024020-027	Tan Non-Fibrous Homogeneous		80% Other	20% Chrysotile

Certification

Signature: Reviewed: Sandra Sobrino

Date: 8/15/2015 Date: 8/15/2015

SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: http://www.sanair.com E-mail: iaq@sanair.com

SanAir ID Number

15024020

FINAL REPORT

Name: AH Environmental Consultants, Inc.
Address: 11837 Rock Landing Drive
Suite 300
Newport News, VA 23606

Project Number: 122-71
P.O. Number:
Project Name: Pax-Webster OLF 8008

Collected Date: 8/4/2015
Received Date: 8/10/2015 8:55:00 AM
Report Date: 8/15/2015 6:29:14 PM
Analyst: Pisula, Nicholas

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8008-28-100 / 15024020-028	Brown Fibrous Homogeneous	95% Cellulose	5% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8008-35-100 / 15024020-029	Various Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8008-36-101 / 15024020-030 Floor Tile	Grey Non-Fibrous Homogeneous		100% Other	None Detected
8008-36-101 / 15024020-030 Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8008-32-100 / 15024020-031 Cove Base	Tan Non-Fibrous Homogeneous		100% Other	None Detected
8008-32-100 / 15024020-031 Masti	Tan Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8008-56-100 / 15024020-032 Floor Tile	Tan Non-Fibrous Homogeneous		100% Other	None Detected
8008-56-100 / 15024020-032 Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected

Certification

Signature: Nick Pisula
Date: 8/15/2015

Reviewed: Sandra Sobrino
Date: 8/15/2015

SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: http://www.sanair.com E-mail: iaq@sanair.com

SanAir ID Number

15024020

FINAL REPORT

Name: AH Environmental Consultants, Inc.
Address: 11837 Rock Landing Drive
Suite 300
Newport News, VA 23606

Project Number: 122-71
P.O. Number:
Project Name: Pax-Webster OLF 8008

Collected Date: 8/4/2015
Received Date: 8/10/2015 8:55:00 AM
Report Date: 8/15/2015 6:29:14 PM
Analyst: Pisula, Nicholas

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8008-33-100 / 15024020-033	Beige Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8008-30-100 / 15024020-034	White Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8008-34-100 / 15024020-035 Floor Tile	White Non-Fibrous Homogeneous		100% Other	None Detected
8008-34-100 / 15024020-035 Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8008-38-100 / 15024020-036 Floor Tile	Grey Non-Fibrous Homogeneous		100% Other	None Detected
8008-38-100 / 15024020-036 Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8008-12-104 / 15024020-037	White Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8008-57-100 / 15024020-038 Floor Tile	Beige Non-Fibrous Homogeneous		100% Other	None Detected
8008-57-100 / 15024020-038 Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected

Certification

Signature: Reviewed: Sandra Sobrino

Date: 8/15/2015 Date: 8/15/2015

SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: http://www.sanair.com E-mail: iaq@sanair.com

SanAir ID Number

15024020

FINAL REPORT

Name: AH Environmental Consultants, Inc.
Address: 11837 Rock Landing Drive
Suite 300
Newport News, VA 23606

Project Number: 122-71
P.O. Number:
Project Name: Pax-Webster OLF 8008

Collected Date: 8/4/2015
Received Date: 8/10/2015 8:55:00 AM
Report Date: 8/15/2015 6:29:14 PM
Analyst: Pisula, Nicholas

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8008-58-100 / 15024020-039	White Fibrous Homogeneous	60% Cellulose 15% Glass 15% Min. Wool	10% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8008-59-100 / 15024020-040	Grey Non-Fibrous Homogeneous		98% Other	2% Chrysotile

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8008-60-100 / 15024020-041 Floor Tile	Pink Non-Fibrous Homogeneous		100% Other	None Detected
8008-60-100 / 15024020-041 Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8008-61-100 / 15024020-042	White Fibrous Homogeneous	95% Cellulose	5% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8008-14-100 / 15024020-043	Yellow Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8008-02-100 / 15024020-044	Brown Fibrous Homogeneous	50% Cellulose	10% Other	40% Chrysotile

Certification

Signature: Nick Pisula
Date: 8/15/2015

Reviewed: Sandra Sobrino
Date: 8/15/2015

SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: http://www.sanair.com E-mail: iaq@sanair.com

SanAir ID Number

15024020

FINAL REPORT

Name: AH Environmental Consultants, Inc.
Address: 11837 Rock Landing Drive
Suite 300
Newport News, VA 23606

Project Number: 122-71
P.O. Number:
Project Name: Pax-Webster OLF 8008

Collected Date: 8/4/2015
Received Date: 8/10/2015 8:55:00 AM
Report Date: 8/15/2015 6:29:14 PM
Analyst: Pisula, Nicholas

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
8008-03-101 / 15024020-045	Grey Fibrous Homogeneous		40% Other	60% Chrysotile

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
8008-08-100 / 15024020-046	Grey Non-Fibrous Homogeneous		80% Other	20% Chrysotile

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
8008-12-105 / 15024020-047	White Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
8008-06-101 / 15024020-048 Floor Tile	Tan Non-Fibrous Homogeneous		100% Other	None Detected
8008-06-101 / 15024020-048 Mastic	Black Non-Fibrous Homogeneous		97% Other	3% Chrysotile

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
8008-06-102 / 15024020-049 Floor Tile	Tan Non-Fibrous Homogeneous		100% Other	None Detected
8008-06-102 / 15024020-049 Mastic	Black Non-Fibrous Homogeneous		97% Other	3% Chrysotile

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
8008-62-100 / 15024020-050	Black Non-Fibrous Homogeneous		97% Other	3% Chrysotile

Certification

Signature: Date: 8/15/2015

Reviewed: Sandra Sobrino Date: 8/15/2015

SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: http://www.sanair.com E-mail: iaq@sanair.com

SanAir ID Number

15024020

FINAL REPORT

Name: AH Environmental Consultants, Inc.
Address: 11837 Rock Landing Drive
Suite 300
Newport News, VA 23606

Project Number: 122-71
P.O. Number:
Project Name: Pax-Webster OLF 8008

Collected Date: 8/4/2015
Received Date: 8/10/2015 8:55:00 AM
Report Date: 8/15/2015 6:29:14 PM
Analyst: Pisula, Nicholas

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8008-06-103 / 15024020-051 Floor Tile	Tan Non-Fibrous Homogeneous		100% Other	None Detected
8008-06-103 / 15024020-051 Mastic	Black Non-Fibrous Homogeneous		97% Other	3% Chrysotile

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8008-62-101 / 15024020-052	Black Non-Fibrous Homogeneous		97% Other	3% Chrysotile

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8008-17-100 / 15024020-053	White Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8008-30-101 / 15024020-054 Mastic	Yellow Non-Fibrous Homogeneous		100% Other	None Detected
8008-30-101 / 15024020-054 Compound	White Non-Fibrous Homogeneous		100% Other	None Detected
8008-30-101 / 15024020-054 Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8008-15-100 / 15024020-055	Red Non-Fibrous Homogeneous		100% Other	None Detected

Certification

Signature: Nick Eil
Date: 8/15/2015

Reviewed: Sandra Sobrino
Date: 8/15/2015

SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: http://www.sanair.com E-mail: iaq@sanair.com

SanAir ID Number

15024020

FINAL REPORT

Name: AH Environmental Consultants, Inc.
Address: 11837 Rock Landing Drive
Suite 300
Newport News, VA 23606

Project Number: 122-71
P.O. Number:
Project Name: Pax-Webster OLF 8008

Collected Date: 8/4/2015
Received Date: 8/10/2015 8:55:00 AM
Report Date: 8/15/2015 6:29:14 PM
Analyst: Pisula, Nicholas

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8008-63-100 / 15024020-056	White Fibrous Homogeneous	60% Cellulose 15% Glass 15% Min. Wool	10% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8008-06-104 / 15024020-057 Floor Tile	Tan Non-Fibrous Homogeneous		100% Other	None Detected
8008-06-104 / 15024020-057 Mastic	Black Non-Fibrous Homogeneous		97% Other	3% Chrysotile

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8008-22-100 / 15024020-058 Cove Base	Brown Non-Fibrous Homogeneous		100% Other	None Detected
8008-22-100 / 15024020-058 Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8008-64-100 / 15024020-059	White Fibrous Homogeneous	60% Cellulose 15% Glass 15% Min. Wool	10% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8008-12-106 / 15024020-060 Drywall	Grey Non-Fibrous Homogeneous	5% Cellulose	95% Other	None Detected
8008-12-106 / 15024020-060 Joint Compound	Tan Non-Fibrous Homogeneous		97% Other	3% Chrysotile

Certification

Signature: Date: 8/15/2015

Reviewed: Sandra Sobrino Date: 8/15/2015

SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: http://www.sanair.com E-mail: iaq@sanair.com

SanAir ID Number

15024020

FINAL REPORT

Name: AH Environmental Consultants, Inc.
Address: 11837 Rock Landing Drive
Suite 300
Newport News, VA 23606

Project Number: 122-71
P.O. Number:
Project Name: Pax-Webster OLF 8008

Collected Date: 8/4/2015
Received Date: 8/10/2015 8:55:00 AM
Report Date: 8/15/2015 6:29:14 PM
Analyst: Pisula, Nicholas

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8008-31-100 / 15024020-061 Floor Tile	Grey Non-Fibrous Homogeneous		95% Other	5% Chrysotile
8008-31-100 / 15024020-061 Mastic	Black Non-Fibrous Homogeneous		97% Other	3% Chrysotile

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8008-24-100 / 15024020-062 Floor Tile	White Non-Fibrous Homogeneous		100% Other	None Detected
8008-24-100 / 15024020-062 Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8008-08-101 / 15024020-063	Grey Non-Fibrous Homogeneous		80% Other	20% Chrysotile

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8008-12-107 / 15024020-064 Drywall	Grey Non-Fibrous Homogeneous	5% Cellulose	95% Other	None Detected
8008-12-107 / 15024020-064 Joint Compound	White Non-Fibrous Homogeneous		98% Other	2% Chrysotile

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8008-65-100 / 15024020-065	White Fibrous Homogeneous	60% Cellulose 15% Glass 15% Min. Wool	10% Other	None Detected

Certification

Signature: Nick Pisula
Date: 8/15/2015

Reviewed: Sandra Sobrino
Date: 8/15/2015

SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: http://www.sanair.com E-mail: iaq@sanair.com

SanAir ID Number

15024020

FINAL REPORT

Name: AH Environmental Consultants, Inc.
Address: 11837 Rock Landing Drive
Suite 300
Newport News, VA 23606

Project Number: 122-71
P.O. Number:
Project Name: Pax-Webster OLF 8008

Collected Date: 8/4/2015
Received Date: 8/10/2015 8:55:00 AM
Report Date: 8/15/2015 6:29:14 PM
Analyst: Pisula, Nicholas

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8008-18-101 / 15024020-066	Black Fibrous Homogeneous	60% Cellulose	40% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8008-12-108 / 15024020-067 Drywall	Grey Non-Fibrous Homogeneous	5% Cellulose	95% Other	None Detected
8008-12-108 / 15024020-067 Joint Compound	White Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8008-66-100 / 15024020-068	White Non-Fibrous Homogeneous		100% Other	None Detected

Certification

Signature: Nicholas Pisula
Date: 8/15/2015

Reviewed: Sandra Sobrino
Date: 8/15/2015

SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: http://www.sanair.com E-mail: iaq@sanair.com

SanAir ID Number

15024020

FINAL REPORT

Name: AH Environmental Consultants, Inc.
Address: 11837 Rock Landing Drive
Suite 300
Newport News, VA 23606

Project Number: 122-71
P.O. Number:
Project Name: Pax-Webster OLF 8008

Collected Date: 8/4/2015
Received Date: 8/10/2015 8:55:00 AM
Report Date: 8/15/2015 6:29:14 PM
Analyst: Sobrino, Sandra

Asbestos Bulk TEM Chatfield

Sample		% Other Material	% Non-Asbestos Fibers	Asbestos Types	% Total Asbestos
8008-59-100 15024020-069	Tan	92.18	<1%	Chrysotile	7.82%

Sample		% Other Material	% Non-Asbestos Fibers	Asbestos Types	% Total Asbestos
8008-06-101 15024020-070	Tan	100	<1%	None Detected	

Sample		% Other Material	% Non-Asbestos Fibers	Asbestos Types	% Total Asbestos
8008-06-102 15024020-071	Tan	100	<1%	None Detected	

Certification

Signature: Sandra Sobrino
Date: 8/15/2015

Reviewed: Sandra Sobrino
Date: 8/15/2015

1502 4026

AH Environmental Consultants Inc. **Bulk Asbestos Analysis**

Date: 3 Aug 2015 *Location:* PAX/Webster OLF
Project: AH # *Building:* 8108

Sample Number (Bldg- Type- Number)	Sample Description/ Location
8108-01-01	Drywall panel, wall
8108-01-02	Drywall panel, wall
8108-01-03	Drywall panel, wall
8108-02-01	Roofing sealant, silver/black, roof
8108-03-01	Misc. sealant, black, vent stack
8108-02-02	Roofing sealant, silver/black, bolt
8108-04-01	Misc. sealant, gray, elec. conduit
8108-05-01	Caulking, white, wall vent
8108-06-01	2×4 Ceiling tile, I
8108-06-02	2×4 Ceiling tile, I
8107-07-01	4" Black vinyl base + adhesive

Notes 5 DAY TAT – PLM

Relinquished by (Signature)	Date	Received by (Signature)	Company	Date
D. Dobson	8/6/15			
Relinquished by (Signature)	**Date**	**Received by (Signature)**	**Company**	**Date**

Page 1 of ____

11837 Rock Landing Dr., Suite 300
Newport News, VA 23606

PH: (757) 873-4959
FX: (757) 873-4952
ddobson@ahenv.com

MC AUG 10 2015 8:55AM

SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: http://www.sanair.com E-mail: iaq@sanair.com

SanAir ID Number

15024026

FINAL REPORT

Name: AH Environmental Consultants, Inc.
Address: 11837 Rock Landing Drive
Suite 300
Newport News, VA 23606

Project Number:
P.O. Number:
Project Name: Pax/ Webster OLF 8108

Collected Date: 8/6/2015
Received Date: 8/10/2015 8:55:00 AM
Report Date: 8/14/2015 5:34:08 PM
Analyst: Fleming, Christopher

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
8108-01-01 / 15024026-001	Off-White Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
8108-01-02 / 15024026-002	Off-White Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
8108-01-03 / 15024026-003	Off-White Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
8108-02-01 / 15024026-004	Silver Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
8108-03-01 / 15024026-005	Black Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
8108-02-02 / 15024026-006	Silver Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
8108-04-01 / 15024026-007	Grey Non-Fibrous Homogeneous		100% Other	None Detected

Certification

Signature: Chris Fleming
Date: 8/14/2015

Reviewed: Sandra Sobrino
Date: 8/14/2015

SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: http://www.sanair.com E-mail: iaq@sanair.com

SanAir ID Number

15024026

FINAL REPORT

Name: AH Environmental Consultants, Inc.
Address: 11837 Rock Landing Drive
Suite 300
Newport News, VA 23606

Project Number:
P.O. Number:
Project Name: Pax/ Webster OLF 8108

Collected Date: 8/6/2015
Received Date: 8/10/2015 8:55:00 AM
Report Date: 8/14/2015 5:34:08 PM
Analyst: Fleming, Christopher

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8108-05-01 / 15024026-008	White Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8108-06-01 / 15024026-009	White Fibrous Homogeneous	60% Min. Wool	40% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8108-06-02 / 15024026-010	White Fibrous Homogeneous	60% Min. Wool	40% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8107-07-01 / 15024026-011 Vinyl	Black Non-Fibrous Homogeneous		100% Other	None Detected
8107-07-01 / 15024026-011 Adhesive	Tan Non-Fibrous Homogeneous		100% Other	None Detected

Certification

Signature: Chris Fleming
Date: 8/14/2015

Reviewed: Sandra Sobrino
Date: 8/14/2015

15024025

AH Environmental Consultants Inc. **Bulk Asbestos Analysis**

Date: 3 Aug 2015 *Location:* PAX/WEBSTER OLF

Project: AH # *Building:* 8143

Sample Number (Bldg- Type- Number)	Sample Description/ Location
8143-01-01	Roofing sealant, silver
8143-02-01	Caulking, white, screwheads, wall
8143-03-01	Tar sealant, ground, south ext.

Notes 5 DAY TAT - PLM

Relinquished by (Signature)	Date	Received by (Signature)	Company	Date
Dobson	8/5/15			
Relinquished by (Signature)	**Date**	**Received by (Signature)**	**Company**	**Date**

Page 1 of ____

11837 Rock Landing Dr., Suite 300
Newport News, VA 23606

PH: (757) 873-4959
FX: (757) 873-4952
ddobson@ahenv.com

MC AUG 10 2015 9:55AM

SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: http://www.sanair.com E-mail: iaq@sanair.com

SanAir ID Number

15024025

FINAL REPORT

Name: AH Environmental Consultants, Inc.
Address: 11837 Rock Landing Drive
Suite 300
Newport News, VA 23606

Project Number:
P.O. Number:
Project Name: Pax/ Webster OLF 8143

Collected Date: 8/3/2015
Received Date: 8/10/2015 8:55:00 AM
Report Date: 8/14/2015 5:49:17 PM
Analyst: Fleming, Christopher

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8143-01-01 / 15024025-001	Silver Non-Fibrous Homogeneous		97% Other	3% Chrysotile

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8143-02-01 / 15024025-002	White Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
8143-03-01 / 15024025-003	Black Non-Fibrous Homogeneous		100% Other	None Detected

Certification

Signature: Chris Fleming
Date: 8/14/2015

Reviewed: Sandra Sobrino
Date: 8/14/2015

Disclaimer

The final report cannot be reproduced, except in full, without written authorization from SanAir. Fibers smaller than 5 microns cannot be seen with this method due to scope limitations. The accuracy of the results is dependent upon the clientõs sampling procedure and information provided to the laboratory by the client. SanAir assumes no responsibility for the sampling procedure and will provide evaluation reports based solely on the sample and information provided by the client. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government.

For NY state samples, method EPA 600/M4-82-020 is performed.

Polarized- light microscopy is not consistently reliable in detecting asbestos in floor covering and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

NY ELAP lab ID 11983

Disclaimer

The final report cannot be reproduced, except in full, without written authorization from SanAir. The accuracy of the results is dependent upon the client's sampling procedure and information provided to the laboratory by the client. SanAir assumes no responsibility for the sampling procedure and will provide evaluation reports based solely on the sample and information provided by the client. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government.

PAX River/ Webster Field

8008 Renovations

XRF Readings

BLDG	XRF#	Pb	(+/-)	LL	COMPONENT	COLOR	SUBSTRATE	CONDITION	LOCATION	NOTE	Date
8136	2	1.05	0.08	**X**	STANDARD	RED		GOOD	8136	cal	3-Aug-15
8136	3	1.21	0.09	**X**	STANDARD	RED		GOOD	8136	cal	3-Aug-15
8136	4	1.04	0.08	**X**	STANDARD	RED		GOOD	8136	cal	3-Aug-15
8136	5	0.00	0.00	**X**	STANDARD	WHITE		GOOD	8136	cal	3-Aug-15
8136	6	0.00	0.00		WALL	WHITE	BLOCK	FAIR	exterior		3-Aug-15
8136	7	0.00	0.00		WALL	WHITE	BLOCK	FAIR	exterior		3-Aug-15
8136	8	0.00	0.00		WALL	WHITE	BLOCK	FAIR	exterior		3-Aug-15
8136	9	0.03	0.02		DOOR	WHITE	METAL	FAIR	exterior		3-Aug-15
8136	10	0.02	0.02		WINDOW	WHITE	METAL	FAIR	exterior		3-Aug-15
8136	11	0.03	0.03		WINDOW	WHITE	METAL	FAIR	exterior		3-Aug-15
8136	12	**0.09**	**0.04**	**D**	MISCELLANEOUS	WHITE	METAL	FAIR	exterior	post	3-Aug-15
8136	13	**0.05**	**0.03**	**D**	MISCELLANEOUS	WHITE	METAL	FAIR	exterior	beam	3-Aug-15
8136	14	0.00	0.00		WALL	WHITE	BLOCK	FAIR	interior		3-Aug-15
8136	15	0.00	0.00		WALL	WHITE	BLOCK	FAIR	interior		3-Aug-15
8136	16	**0.08**	**0.11**	**D**	CEILING	WHITE	METAL	POOR	interior		3-Aug-15
8136	17	0.01	0.00		CEILING	WHITE	METAL	POOR	interior		3-Aug-15
8136	18	0.00	0.00		WALL	WHITE	BLOCK	GOOD	interior		3-Aug-15
8136	19	0.00	0.00		WALL	WHITE	WOOD	GOOD	interior		3-Aug-15
8136	20	0.03	0.01		WALL	RED	PLASTIC	GOOD	interior		3-Aug-15
8136	21	**0.80**	**0.00**	**L**	FLOOR	WHITE	CONCRETE	GOOD	interior		3-Aug-15
8136	22	0.04	0.05		FLOOR	WHITE	CONCRETE	GOOD	interior		3-Aug-15
8136	23	0.00	0.00		FLOOR	WHITE	CONCRETE	GOOD	interior		3-Aug-15
8136	24	0.00	0.01		MISCELLANEOUS	YELLOW	METAL	GOOD	interior	tank	3-Aug-15
8143	25	**0.06**	**0.09**	**D**	WALL	WHITE	METAL	GOOD	exterior		3-Aug-15
8143	26	0.02	0.02		MISCELLANEOUS	GOLD	METAL	GOOD	exterior		3-Aug-15
8143	27	0.03	0.03		MISCELLANEOUS	GOLD	METAL	GOOD	exterior		3-Aug-15
8143	28	0.01	0.02		WALL	WHITE	METAL	GOOD	exterior		3-Aug-15
8143	29	**0.09**	**0.09**	**D**	WALL	LT.GREEN	METAL	GOOD	exterior		3-Aug-15
8143	30	0.00	0.00		DOOR	WHITE	METAL	GOOD	exterior		3-Aug-15
8143	31	0.00	0.00		DOOR FRAME	WHITE	METAL	GOOD	exterior		3-Aug-15
8143	32	0.00	0.00		MISCELLANEOUS	SILVER	METAL	GOOD	exterior	beam	3-Aug-15

PAX River/ Webster Field

8008 Renovations

XRF Readings

BLDG	XRF#	Pb	(+/-)	LL	COMPONENT	COLOR	SUBSTRATE	CONDITION	LOCATION	NOTE	Date
8143	33	0.00	0.00		MISCELLANEOUS	BLACK	METAL	GOOD	exterior	beam	3-Aug-15
8143	34	0.00	0.00		WALL	WHITE	METAL	GOOD	exterior		3-Aug-15
8143	35	**0.05**	**0.07**	**D**	WALL	WHITE	METAL	GOOD	exterior		3-Aug-15
8143	36	0.03	0.04		DOOR	WHITE	METAL	POOR	exterior		3-Aug-15
8143	37	0.00	0.00		DOOR	WHITE	METAL	POOR	exterior		3-Aug-15
8143	38	0.01	0.03		MISCELLANEOUS	SILVER	METAL	FAIR	interior	beam	3-Aug-15
8143	39	**0.05**	**0.05**	**D**	MISCELLANEOUS	SILVER	METAL	FAIR	interior	beam	3-Aug-15
8143	40	0.00	0.00		FLOOR		CONCRETE	GOOD	interior		3-Aug-15
8143	41	0.00	0.00		FLOOR		CONCRETE	GOOD	interior		3-Aug-15
8143	42	0.01	0.01		MISCELLANEOUS	WHITE	METAL	GOOD	exterior	beam	3-Aug-15
8143	43	1.15	0.08	**X**	STANDARD	RED		GOOD	8136-8143	end cal	3-Aug-15
8143	44	1.04	0.08	**X**	STANDARD	RED		GOOD	8136-8143	end cal	3-Aug-15
8143	45	1.05	0.08	**X**	STANDARD	RED		GOOD	8136-8143	end cal	3-Aug-15
8143	46	0.00	0.00	**X**	STANDARD	WHITE		GOOD	8136-8143	end cal	3-Aug-15
8108	2	1.03	0.08	**X**	STANDARD	RED		GOOD	8108		4-Aug-15
8108	3	1.11	0.08	**X**	STANDARD	RED		GOOD	8108		4-Aug-15
8108	4	1.01	0.07	**X**	STANDARD	RED		GOOD	8108		4-Aug-15
8108	5	**0.10**	**0.04**	**D**	WALL	WHITE	METAL	GOOD	exterior		4-Aug-15
8108	6	**0.08**	**0.03**	**D**	WALL	WHITE	METAL	GOOD	exterior		4-Aug-15
8108	7	0.02	0.03		MISCELLANEOUS	WHITE	METAL	GOOD	exterior	beam	4-Aug-15
8108	8	0.01	0.02		MISCELLANEOUS	WHITE	METAL	GOOD	exterior	beam	4-Aug-15
8108	9	0.01	0.00		MISCELLANEOUS	WHITE	METAL	GOOD	exterior	pipe	4-Aug-15
8108	10	**0.09**	**0.04**	**D**	WALL	WHITE	METAL	GOOD	exterior		4-Aug-15
8108	11	**0.06**	**0.03**	**D**	WALL	WHITE	METAL	GOOD	exterior		4-Aug-15
8108	12	0.00	0.00		DOOR	WHITE	METAL	GOOD	interior		4-Aug-15
8108	13	0.00	0.00		DOOR FRAME	WHITE	METAL	GOOD	interior		4-Aug-15
8108	14	0.01	0.01		MISCELLANEOUS	WHITE	METAL	GOOD	interior	beam	4-Aug-15
8108	15	0.00	0.00		MISCELLANEOUS	YELLOW	METAL	GOOD	interior	plate	4-Aug-15
8108	16	0.00	0.00		WALL		DRYWALL	GOOD	interior		4-Aug-15
8108	17	0.00	0.00		WALL		DRYWALL	GOOD	interior		4-Aug-15
8108	18	0.00	0.00		DOOR	GRAY	METAL	GOOD	interior		4-Aug-15

PAX River/ Webster Field

8008 Renovations

XRF Readings

BLDG	XRF#	Pb	(+/-)	LL	COMPONENT	COLOR	SUBSTRATE	CONDITION	LOCATION	NOTE	Date
8108	19	0.00	0.00		DOOR FRAME	GRAY	METAL	GOOD	interior		4-Aug-15
8108	20	0.00	0.00		WALL	WHITE	DRYWALL	GOOD	interior		4-Aug-15
8108	21	0.00	0.00		WALL	WHITE	WOOD	GOOD	interior		4-Aug-15
8108	22	0.00	0.00		WALL	WHITE	WOOD	GOOD	interior		4-Aug-15
8108	23	0.00	0.00		BASE COVE	BLACK	VINYL	GOOD	interior		4-Aug-15
8108	24	0.01	0.00		DOOR	GRAY	METAL	GOOD	interior		4-Aug-15
8108	25	0.00	0.00		WALL	WHITE	METAL	GOOD	interior		4-Aug-15
8108	26	0.03	0.02		WALL	WHITE	METAL	GOOD	interior		4-Aug-15
8108	27	0.00	0.00		WALL	WHITE	METAL	GOOD	interior		4-Aug-15
8108	28	**0.05**	**0.03**	**D**	MISCELLANEOUS	WHITE	METAL	GOOD	interior	beam	4-Aug-15
8108	29	0.01	0.01		MISCELLANEOUS	YELLOW	METAL	GOOD	interior	beam	4-Aug-15
8108	30	0.02	0.02		MISCELLANEOUS	YELLOW	METAL	GOOD	interior	beam	4-Aug-15
8108	31	**0.14**	**0.07**	**D**	MISCELLANEOUS	YELLOW	METAL	GOOD	interior	pipe	4-Aug-15
8108	32	0.00	0.00		MISCELLANEOUS	YELLOW	PLASTIC	GOOD	interior	bowl	4-Aug-15
8108	33	0.00	0.00		FLOOR		CONCRETE	GOOD	interior		4-Aug-15
8108	34	0.01	0.02		FLOOR		CONCRETE	GOOD	interior		4-Aug-15
8108	35	0.00	0.00		FLOOR		CONCRETE	GOOD	interior		4-Aug-15
8108	36	0.00	0.00		MISCELLANEOUS	SILVER	METAL	GOOD	interior	tank	4-Aug-15
8108	37	0.00	0.01		MISCELLANEOUS	SILVER	METAL	GOOD	interior	tank	4-Aug-15
8108	38	0.00	0.00		MISCELLANEOUS	YELLOW	METAL	GOOD	interior	bollard	4-Aug-15
8108	39	1.06	0.08	**X**	STANDARD	RED		GOOD	8108	end cal	4-Aug-15
8108	40	1.05	0.08	**X**	STANDARD	RED		GOOD	8108	end cal	4-Aug-15
8108	41	1.02	0.08	**X**	STANDARD	RED		GOOD	8108	end cal	4-Aug-15
8008	2	1.03	0.08	**X**	STANDARD	RED		GOOD	PAX-WEB 8008	call	5-Aug-15
8008	3	1.04	0.08	**X**	STANDARD	RED		GOOD	PAX-WEB 8008	call	5-Aug-15
8008	4	1.10	0.08	**X**	STANDARD	RED		GOOD	PAX-WEB 8008	call	5-Aug-15
8008	5	0.00	0.00		WALL	WHITE	DRYWALL	GOOD	NE Foyer		5-Aug-15
8008	6	0.00	0.00		WALL	WHITE	DRYWALL	GOOD	NE Hall		5-Aug-15
8008	7	0.00	0.00		WALL	WHITE	DRYWALL	GOOD	NE Hall		5-Aug-15
8008	8	0.00	0.00		WALL	WHITE	DRYWALL	GOOD	NE Hall		5-Aug-15
8008	9	0.00	0.00		DOOR		WOOD	GOOD	115		5-Aug-15

AH Environmental
DDobson@ahenv.com

3-6 August 2015

PAX River/ Webster Field

8008 Renovations

XRF Readings

BLDG	XRF#	Pb	(+/-)	LL	COMPONENT	COLOR	SUBSTRATE	CONDITION	LOCATION	NOTE	Date
8008	10	0.00	0.00		DOOR FRAME	WHITE	METAL	GOOD	115		5-Aug-15
8008	11	0.00	0.00		WALL	WHITE	DRYWALL	GOOD	115		5-Aug-15
8008	12	0.00	0.00		WALL	WHITE	DRYWALL	GOOD	115		5-Aug-15
8008	13	0.00	0.00		WINDOW TRIM	WHITE	WOOD	GOOD	115		5-Aug-15
8008	14	**0.80**	**0.02**	L	BASE COVE	BEIGE	VINYL	GOOD	115		5-Aug-15
8008	15	0.00	0.00		BASE COVE	BEIGE	VINYL	GOOD	113 hall		5-Aug-15
8008	16	0.00	0.00		WALL	GRAY	DRYWALL	GOOD	113	covered	5-Aug-15
8008	17	0.01	0.03		WALL	GRAY	DRYWALL	GOOD	113	covered	5-Aug-15
8008	18	0.00	0.00		WALL	GRAY	DRYWALL	GOOD	113	covered	5-Aug-15
8008	19	0.00	0.00		BASE COVE	LT. BLUE	WOOD	GOOD	113		5-Aug-15
8008	20	0.00	0.00		FLOOR	GRAY	VINYL	GOOD	113		5-Aug-15
8008	21	0.03	0.05		RADIATOR	TAN	METAL	GOOD	113		5-Aug-15
8008	22	0.00	0.00		WALL	GRAY	DRYWALL	GOOD	114	covered	5-Aug-15
8008	23	0.00	0.00		WALL	GRAY	DRYWALL	GOOD	114	covered	5-Aug-15
8008	24	0.00	0.00		WINDOW TRIM	LT. BLUE	WOOD	GOOD	114		5-Aug-15
8008	25	0.00	0.00		WALL	LT. BROWN	LAMINATE	GOOD	108		5-Aug-15
8008	26	0.00	0.00		WALL	LT. BROWN	LAMINATE	GOOD	108		5-Aug-15
8008	27	0.00	0.00		MISCELLANEOUS	RED	METAL	GOOD	108	fire bell	5-Aug-15
8008	28	0.00	0.00		WALL	WHITE	DRYWALL	GOOD	108 electric		5-Aug-15
8008	29	0.00	0.00		WALL	WHITE	DRYWALL	GOOD	108 mens		5-Aug-15
8008	30	0.00	0.00		WALL	WHITE	DRYWALL	GOOD	108 mens		5-Aug-15
8008	31	**1.19**	**0.19**	L	CEILING	BEIGE		POOR	108 mens	overhead	5-Aug-15
8008	32	0.00	0.00		WALL	WHITE	DRYWALL	GOOD	108 closet		5-Aug-15
8008	33	0.02	0.02		BATH FIXTURE	WHITE	CERAMIC	GOOD	108 womens	sink	5-Aug-15
8008	34	**0.80**	**0.01**	L	BATH FIXTURE	WHITE	CERAMIC	GOOD	108 womens	toilet	5-Aug-15
8008	35	0.00	0.00		PARTITION WALL	TAN	METAL	GOOD	108 womens		5-Aug-15
8008	36	**0.09**	**0.14**	D	PARTITION WALL	TAN	METAL	GOOD	108 womens		5-Aug-15
8008	37	0.00	0.00		WALL	WHITE	LAMINATE	GOOD	108 womens		5-Aug-15
8008	38	0.00	0.00		WALL	WHITE	LAMINATE	GOOD	108 womens		5-Aug-15
8008	39	0.00	0.00		CABINET	GRAY	METAL	GOOD	108 womens		5-Aug-15
8008	40	0.00	0.00		DOOR	CLEAR	WOOD	GOOD	108 womens		5-Aug-15

PAX River/ Webster Field

8008 Renovations

XRF Readings

BLDG	XRF#	Pb	(+/-)	LL	COMPONENT	COLOR	SUBSTRATE	CONDITION	LOCATION	NOTE	Date
8008	41	0.00	0.00		DOOR FRAME	CLEAR	WOOD	GOOD	108 womens		5-Aug-15
8008	42	0.00	0.00		WALL	LT. BROWN	LAMINATE	GOOD	106		5-Aug-15
8008	43	0.00	0.00		WALL	LT. BROWN	LAMINATE	GOOD	106		5-Aug-15
8008	44	**0.80**	**0.00**	L	CEILING	WHITE	DRYWALL	GOOD	106	overhead	5-Aug-15
8008	45	0.00	0.00		WALL	BEIGE	DRYWALL	GOOD	106	covered	5-Aug-15
8008	46	0.00	0.00		WALL	BEIGE	DRYWALL	GOOD	106	covered	5-Aug-15
8008	47	0.00	0.00		BASE COVE	TEAL	VINYL	GOOD	106		5-Aug-15
8008	48	0.00	0.00		WALL	BEIGE	LAMINATE	GOOD	106 foyer		5-Aug-15
8008	49	**0.31**	**0.21**	C	WALL	LT. BROWN	LAMINATE	GOOD	104		5-Aug-15
8008	50	**0.26**	**0.22**	C	WALL	LT. BROWN	LAMINATE	GOOD	104		5-Aug-15
8008	51	**0.31**	**0.12**	C	WALL	LT. BROWN	LAMINATE	GOOD	104	2nd layer	5-Aug-15
8008	52	**0.51**	**0.06**	E	WALL	LT. BROWN	LAMINATE	GOOD	104	3rd layer	5-Aug-15
8008	53	0.00	0.00		WALL	WHITE	LAMINATE	GOOD	103		5-Aug-15
8008	54	0.00	0.00		WALL	WHITE	DRYWALL	GOOD	103		5-Aug-15
8008	55	0.00	0.00		WALL	LT. GRAY	DRYWALL	GOOD	103	coveeed	5-Aug-15
8008	56	0.00	0.00		WALL	LT. GRAY	DRYWALL	GOOD	103	coveeed	5-Aug-15
8008	57	0.00	0.00		BASE COVE	GRAY	VINYL	GOOD	103		5-Aug-15
8008	58	0.02	0.02		WALL	WHITE	DRYWALL	GOOD	103	3rd layer	5-Aug-15
8008	59	**0.05**	**0.05**	D	CEILING	WHITE	DRYWALL	GOOD	103	overhead	5-Aug-15
8008	60	0.00	0.00		DOOR	WHITE	METAL	GOOD	103		5-Aug-15
8008	61	0.00	0.00		DOOR FRAME	WHITE	METAL	GOOD	103		5-Aug-15
8008	62	0.00	0.00		RADIATOR	TAN	METAL	GOOD	103		5-Aug-15
8008	63	**0.99**	**0.08**	L	MISCELLANEOUS	RED	METAL	GOOD	103	fire pull	5-Aug-15
8008	64	**0.99**	**0.09**	L	BLINDS	BEIGE	VINYL	GOOD	103		5-Aug-15
8008	65	0.00	0.00		WALL	WHITE	DRYWALL	GOOD	102		5-Aug-15
8008	66	0.00	0.00		WALL	WHITE	DRYWALL	GOOD	102		5-Aug-15
8008	67	0.04	0.02		CEILING	LT.GREEN	DRYWALL	GOOD	102	overhead	5-Aug-15
8008	68	**0.80**	**0.03**	L	CEILING	BEIGE	DRYWALL	POOR	102	overhead	5-Aug-15
8008	69	**1.79**	**0.35**	L	MISCELLANEOUS	BEIGE	METAL	FAIR	102	pipe	5-Aug-15
8008	70	0.00	0.00		BASE COVE	TAN	VINYL	GOOD	102		5-Aug-15
8008	71	**0.16**	**0.03**	D	BASE COVE	BROWN	VINYL	GOOD	101		5-Aug-15

AH Environmental

DDobson@ahenv.com

3-6 August 2015

PAX River/ Webster Field

8008 Renovations

XRF Readings

BLDG	XRF#	Pb	(+/-)	LL	COMPONENT	COLOR	SUBSTRATE	CONDITION	LOCATION	NOTE	Date
8008	72	**1.00**	**0.10**	L	BLINDS	BEIGE	VINYL	GOOD	101		5-Aug-15
8008	73	**0.15**	**0.20**	D	WALL	WHITE	LAMINATE	GOOD	101		5-Aug-15
8008	74	0.01	0.01		WALL	LT. BROWN	LAMINATE	GOOD	101	2nd layer	5-Aug-15
8008	75	**0.80**	**0.01**	L	WALL	LT.GREEN	DRYWALL	GOOD	101	3rd layer	5-Aug-15
8008	76	**0.80**	**0.03**	L	CEILING	WHITE	DRYWALL	GOOD	101	overhead	5-Aug-15
8008	77	0.00	0.00		WALL	BEIGE	LAMINATE	GOOD	100		5-Aug-15
8008	78	0.00	0.00		WALL	BEIGE	LAMINATE	GOOD	100		5-Aug-15
8008	79	0.00	0.00		DOOR	GRAY	METAL	GOOD	100		5-Aug-15
8008	80	0.04	0.05		MISCELLANEOUS	LT.GREEN	LAMINATE	GOOD	100	table	5-Aug-15
8008	81	0.00	0.00		WALL	LT. GRAY	DRYWALL	GOOD	114A	coveeed	5-Aug-15
8008	82	0.00	0.00		WALL	LT. GRAY	DRYWALL	GOOD	114A	coveeed	5-Aug-15
8008	83	**1.03**	**0.11**	L	BLINDS	BEIGE	VINYL	GOOD	114A		5-Aug-15
8008	84	0.00	0.00		BASE COVE	GRAY	WOOD	GOOD	114A		5-Aug-15
8008	85	0.00	0.00		DOOR	BEIGE	METAL	GOOD	114A		5-Aug-15
8008	86	0.00	0.00		DOOR FRAME	GRAY	METAL	GOOD	114A		5-Aug-15
8008	87	0.00	0.00		CABINET	LT. BLUE	WOOD	GOOD	114A		5-Aug-15
8008	88	0.00	0.00		WALL	BEIGE	LAMINATE	GOOD	114A womens	faux tile	5-Aug-15
8008	89	0.00	0.00		WALL	BEIGE	LAMINATE	GOOD	114A womens	faux tile	5-Aug-15
8008	90	0.01	0.02		WALL	LT. BROWN	LAMINATE	GOOD	114A womens		5-Aug-15
8008	91	0.08	0.01		FLOOR	BEIGE	VINYL	GOOD	114A womens		5-Aug-15
8008	92	**5.00**	**0.63**	L	BATH FIXTURE	WHITE	CERAMIC	GOOD	114A womens	sink	5-Aug-15
8008	93	**0.34**	**0.06**	C	BATH FIXTURE	WHITE	CERAMIC	GOOD	114A womens	toilet	5-Aug-15
8008	94	0.00	0.00		MISCELLANEOUS	WHITE	METAL	GOOD	114A womens	towel dispencer	5-Aug-15
8008	95	0.00	0.00		BLINDS	LT. BLUE	VINYL	GOOD	114		5-Aug-15
8008	96	0.00	0.00		DOOR FRAME	LT. BLUE	WOOD	GOOD	119		5-Aug-15
8008	97	0.00	0.00		WALL	LT. BLUE	WOOD	GOOD	112		5-Aug-15
8008	98	0.00	0.00		WALL	WHITE	DRYWALL	GOOD	112		5-Aug-15
8008	99	**2.52**	**0.85**	L	WALL	WHITE	BLOCK	GOOD	112		5-Aug-15
8008	100	**4.63**	**1.54**	L	WALL	WHITE	BLOCK	GOOD	112		5-Aug-15
8008	101	0.00	0.00		WALL	WHITE	WOOD	GOOD	112		5-Aug-15
8008	102	0.01	0.01		WALL	LT.GREEN	WOOD	GOOD	112		5-Aug-15

AH Environmental

DDobson@ahenv.com

3-6 August 2015

PAX River/ Webster Field

8008 Renovations

XRF Readings

BLDG	XRF#	Pb	(+/-)	LL	COMPONENT	COLOR	SUBSTRATE	CONDITION	LOCATION	NOTE	Date
8008	103	0.00	0.00		WALL	WHITE	DRYWALL	GOOD	112		5-Aug-15
8008	104	0.04	0.04		MISCELLANEOUS	WHITE	WOOD	GOOD	112	column	5-Aug-15
8008	105	0.00	0.00		FLOOR	YELLOW	CONCRETE	GOOD	112	stripe	5-Aug-15
8008	106	0.01	0.02		DOOR FRAME	LT. BLUE	WOOD	GOOD	112		5-Aug-15
8008	107	**0.13**	**0.06**	D	MISCELLANEOUS	WHITE	METAL	GOOD	112	I-beam	5-Aug-15
8008	108	**0.15**	**0.06**	D	MISCELLANEOUS	WHITE	METAL	GOOD	112	I-beam	5-Aug-15
8008	109	0.00	0.00		WALL	WHITE	DRYWALL	GOOD	112		5-Aug-15
8008	110	0.00	0.00		WALL	WHITE	DRYWALL	GOOD	112		5-Aug-15
8008	111	**1.04**	**0.08**	L	CABINET	YELLOW	METAL	GOOD	112		5-Aug-15
8008	112	**0.78**	**0.03**	L	CABINET	YELLOW	METAL	GOOD	112		5-Aug-15
8008	113	0.00	0.00		WALL	WHITE	DRYWALL	GOOD	112		5-Aug-15
8008	114	0.00	0.00		WALL	WHITE	DRYWALL	GOOD	112		5-Aug-15
8008	115	0.00	0.00		WALL	WHITE	LAMINATE	GOOD	112 mens		5-Aug-15
8008	116	0.00	0.00		WALL	LT. BROWN	LAMINATE	GOOD	112 mens		5-Aug-15
8008	117	**1.58**	**0.23**	L	WALL	LT. BLUE	BLOCK	GOOD	112 mens	3rd layer	5-Aug-15
8008	118	0.00	0.01		CEILING	WHITE	CEMENT	GOOD	112 mens	overhead	5-Aug-15
8008	119	**0.80**	**0.02**	L	BATH FIXTURE	WHITE	CERAMIC	GOOD	112 mens	sink	5-Aug-15
8008	120	0.00	0.01		BATH FIXTURE	WHITE	CERAMIC	GOOD	112 mens	urinal	5-Aug-15
8008	121	0.03	0.02		BATH FIXTURE	WHITE	CERAMIC	GOOD	112 mens	toilet	5-Aug-15
8008	122	0.00	0.00		PARTITION WALL	LT. BROWN	METAL	GOOD	112 mens		5-Aug-15
8008	123	0.00	0.00		WALL	WHITE	DRYWALL	GOOD	122		5-Aug-15
8008	124	0.00	0.00		WALL	WHITE	DRYWALL	GOOD	122		5-Aug-15
8008	125	0.00	0.00		MISCELLANEOUS	WHITE	WOOD	GOOD	122	column	5-Aug-15
8008	126	0.00	0.00		WALL	WHITE	DRYWALL	GOOD	122		5-Aug-15
8008	127	0.00	0.00		WINDOW TRIM	WHITE	WOOD	GOOD	122		5-Aug-15
8008	128	0.00	0.00		MISCELLANEOUS	RED	VINYL	GOOD	122	stool	5-Aug-15
8008	129	0.00	0.00		BLINDS	WHITE	VINYL	GOOD	122		5-Aug-15
8008	130	0.00	0.00		DOOR	GRAY	METAL	GOOD	122		5-Aug-15
8008	131	0.00	0.00		DOOR	GRAY	METAL	GOOD	122		5-Aug-15
8008	132	0.00	0.00		DOOR FRAME	BLACK	METAL	GOOD	122		5-Aug-15
8008	133	0.00	0.00		DOOR TRIM	LT. BLUE	WOOD	GOOD	122		5-Aug-15

AH Environmental

DDobson@ahenv.com

3-6 August 2015

PAX River/ Webster Field

8008 Renovations

XRF Readings

BLDG	XRF#	Pb	(+/-)	LL	COMPONENT	COLOR	SUBSTRATE	CONDITION	LOCATION	NOTE	Date
8008	134	0.00	0.00		WALL	WHITE	DRYWALL	GOOD	122		5-Aug-15
8008	135	0.00	0.00		MISCELLANEOUS	WHITE	METAL	GOOD	122	duct	5-Aug-15
8008	136	0.00	0.00		CEILING	WHITE	DRYWALL	GOOD	122		5-Aug-15
8008	137	0.00	0.00		CEILING	WHITE	DRYWALL	GOOD	122		5-Aug-15
8008	138	0.00	0.00		DOOR	LT. BLUE	METAL	GOOD	124		5-Aug-15
8008	139	0.00	0.00		DOOR FRAME	LT. BLUE	METAL	GOOD	124		5-Aug-15
8008	140	0.00	0.00		WALL	WHITE	UNKNOWN	GOOD	124		5-Aug-15
8008	141	0.00	0.00		WALL	WHITE	UNKNOWN	GOOD	124		5-Aug-15
8008	142	0.00	0.00		WALL	WHITE	METAL	GOOD	123		5-Aug-15
8008	143	0.02	0.02		WALL	WHITE	METAL	GOOD	123		5-Aug-15
8008	144	0.00	0.00		DOOR	TAN	METAL	GOOD	123		5-Aug-15
8008	145	0.00	0.00		DOOR FRAME	TAN	METAL	GOOD	123		5-Aug-15
8008	146	0.00	0.00		MISCELLANEOUS	WHITE	METAL	GOOD	123	beam	5-Aug-15
8008	147	0.00	0.00		RAILING	TAN	METAL	GOOD	123		5-Aug-15
8008	148	0.00	0.00		WALL	WHITE	WOOD	GOOD	136		5-Aug-15
8008	149	0.00	0.00		WALL	WHITE	WOOD	GOOD	136		5-Aug-15
8008	150	0.00	0.00		WALL	WHITE	WOOD	GOOD	136		5-Aug-15
8008	151	0.00	0.00		MISCELLANEOUS	YELLOW	METAL	GOOD	136	tool	5-Aug-15
8008	152	0.00	0.00		DOOR	LT. BLUE	METAL	GOOD	136		5-Aug-15
8008	153	0.00	0.00		DOOR FRAME	LT. BLUE	METAL	GOOD	136		5-Aug-15
8008	154	**5.00**	**0.35**	**L**	MISCELLANEOUS	RED	METAL	GOOD	136	fire can	5-Aug-15
8008	155	0.00	0.00		WALL	GREEN	BLOCK	GOOD	136	under	5-Aug-15
8008	156	0.00	0.00		WALL	GREEN	BLOCK	GOOD	136	under	5-Aug-15
8008	157	0.00	0.00		FLOOR	YELLOW	CONCRETE	GOOD	112		5-Aug-15
8008	158	0.00	0.00		STAIR	LT. BLUE	WOOD	GOOD	200		5-Aug-15
8008	159	0.03	0.04		CEILING	WHITE	DRYWALL	GOOD	200		5-Aug-15
8008	160	0.01	0.02		CEILING	WHITE	DRYWALL	GOOD	200		5-Aug-15
8008	161	0.00	0.00		WALL	WHITE	DRYWALL	GOOD	200		5-Aug-15
8008	162	**0.80**	**0.01**	**L**	WALL	GREEN	DRYWALL	GOOD	200		5-Aug-15
8008	163	**0.80**	**0.00**	**L**	WALL	GREEN	DRYWALL	GOOD	200		5-Aug-15
8008	164	**0.06**	**0.09**	**D**	CEILING	WHITE	DRYWALL	GOOD	201		5-Aug-15

PAX River/ Webster Field

8008 Renovations

XRF Readings

BLDG	XRF#	Pb	(+/-)	LL	COMPONENT	COLOR	SUBSTRATE	CONDITION	LOCATION	NOTE	Date
8008	165	0.00	0.00		CEILING	WHITE	DRYWALL	GOOD	201		5-Aug-15
8008	166	0.00	0.00		WALL	LT. BROWN	LAMINATE	GOOD	201		5-Aug-15
8008	167	0.00	0.00		WALL	LT. BROWN	LAMINATE	GOOD	201		5-Aug-15
8008	168	0.00	0.00		WINDOW	WHITE	VINYL	GOOD	201		5-Aug-15
8008	169	0.00	0.00		WINDOW TRIM	WHITE	WOOD	GOOD	201		5-Aug-15
8008	170	0.04	0.05		CEILING	WHITE	DRYWALL	GOOD	112		5-Aug-15
8008	171	0.00	0.00		MISCELLANEOUS	WHITE	METAL	GOOD	112	baffle	5-Aug-15
8008	173	1.16	0.09	**X**	STANDARD	RED		GOOD	8008	batt swap	5-Aug-15
8008	174	1.01	0.07	**X**	STANDARD	RED		GOOD	8008	batt swap	5-Aug-15
8008	175	1.07	0.08	**X**	STANDARD	RED		GOOD	8008	batt swap	5-Aug-15
8008	176	0.00	0.00	**X**	STANDARD	WHITE		GOOD	8008	batt swap	5-Aug-15
8008	177	0.00	0.00		WALL	GRAY	DRYWALL	GOOD	125A		5-Aug-15
8008	178	0.00	0.00		WALL	GRAY	DRYWALL	GOOD	125A		5-Aug-15
8008	179	0.00	0.00		WALL	GRAY	DRYWALL	GOOD	125B		5-Aug-15
8008	180	0.00	0.00		WALL	GRAY	WOOD	GOOD	125B		5-Aug-15
8008	181	0.00	0.00		DOOR	BLACK	METAL	GOOD	125B		5-Aug-15
8008	182	0.00	0.00		DOOR FRAME	BLACK	METAL	GOOD	125B		5-Aug-15
8008	183	0.00	0.01		DOOR	BLACK	WOOD	GOOD	125B		5-Aug-15
8008	184	0.00	0.00		DOOR FRAME	GRAY	WOOD	GOOD	125B		5-Aug-15
8008	185	0.00	0.00		CABINET	GRAY	WOOD	GOOD	125B		5-Aug-15
8008	186	0.00	0.00		WALL	WHITE	LAMINATE	GOOD	119 mens		5-Aug-15
8008	187	0.00	0.00		WALL	BEIGE	LAMINATE	GOOD	119 mens		5-Aug-15
8008	188	0.00	0.00		BASE COVE	TEAL	VINYL	GOOD	119 mens		5-Aug-15
8008	189	0.00	0.00		WALL	WHITE	DRYWALL	GOOD	south hall		5-Aug-15
8008	190	0.00	0.00		WALL	WHITE	DRYWALL	GOOD	south hall		5-Aug-15
8008	191	0.00	0.00		FLOOR	YELLOW	CONCRETE	GOOD	south hall	stripes	5-Aug-15
8008	192	0.00	0.00		DOOR FRAME	LT. BLUE	WOOD	GOOD	south hall		5-Aug-15
8008	193	0.00	0.00		DOOR	LT. BLUE	WOOD	GOOD	126		5-Aug-15
8008	194	0.00	0.00		WALL	WHITE	DRYWALL	GOOD	126		5-Aug-15
8008	195	0.00	0.00		WALL	WHITE	DRYWALL	GOOD	126		5-Aug-15
8008	196	0.00	0.00		WALL	LT. BLUE	DRYWALL	GOOD	126		5-Aug-15

PAX River/ Webster Field

8008 Renovations

XRF Readings

BLDG	XRF#	Pb	(+/-)	LL	COMPONENT	COLOR	SUBSTRATE	CONDITION	LOCATION	NOTE	Date
8008	197	**0.80**	**0.00**	**L**	WALL	LT. BLUE	BLOCK	GOOD	126		5-Aug-15
8008	198	0.00	0.00		WALL	LT. BLUE	BLOCK	GOOD	126		5-Aug-15
8008	199	0.01	0.02		WALL	WHITE	METAL	GOOD	126		5-Aug-15
8008	200	0.00	0.00		WALL	WHITE	METAL	GOOD	126		5-Aug-15
8008	201	0.00	0.00		CABINET	LT. BLUE	WOOD	GOOD	126		5-Aug-15
8008	202	0.00	0.00		WALL	WHITE	WOOD	GOOD	129		5-Aug-15
8008	203	0.00	0.00		WALL	WHITE	WOOD	GOOD	129		5-Aug-15
8008	204	0.00	0.00		WALL	WHITE	WOOD	GOOD	129		5-Aug-15
8008	205	**0.24**	**0.07**	**D**	MISCELLANEOUS	WHITE	METAL	GOOD	129	beam	5-Aug-15
8008	206	0.00	0.00		WALL	WHITE	WOOD	GOOD	130		5-Aug-15
8008	207	0.00	0.00		WALL	WHITE	DRYWALL	GOOD	130		5-Aug-15
8008	208	0.00	0.00		WALL	WHITE	WOOD	GOOD	130		5-Aug-15
8008	209	**0.17**	**0.06**	**D**	MISCELLANEOUS	WHITE	METAL	GOOD	130	beam	5-Aug-15
8008	210	0.00	0.00		CEILING	WHITE	DRYWALL	GOOD	130		5-Aug-15
8008	211	0.00	0.00		DOOR	LT. BLUE	WOOD	GOOD	130		5-Aug-15
8008	212	0.00	0.00		DOOR FRAME	LT. BLUE	WOOD	GOOD	130		5-Aug-15
8008	213	0.00	0.00		MISCELLANEOUS	BROWN	LAMINATE	GOOD	130	table	5-Aug-15
8008	214	0.00	0.00		WALL	WHITE	LAMINATE	GOOD	131	faux tile	5-Aug-15
8008	215	0.00	0.00		DOOR FRAME	WHITE	WOOD	GOOD	131		5-Aug-15
8008	216	0.00	0.00		WALL	BEIGE	LAMINATE	GOOD	131		5-Aug-15
8008	217	0.00	0.00		WALL	BEIGE	LAMINATE	GOOD	131		5-Aug-15
8008	218	0.00	0.00		CABINET	YELLOW	METAL	GOOD	131		5-Aug-15
8008	219	0.00	0.00		FLOOR		CONCRETE	GOOD	131		5-Aug-15
8008	220	0.00	0.00		FLOOR		CONCRETE	GOOD	131		5-Aug-15
8008	221	**0.21**	**0.08**	**D**	MISCELLANEOUS	WHITE	METAL	GOOD	131	pole	5-Aug-15
8008	222	0.00	0.00		WALL	WHITE	WOOD	GOOD	128		5-Aug-15
8008	223	0.00	0.00		FLOOR	YELLOW	WOOD	GOOD	128	threwhold	5-Aug-15
8008	224	0.00	0.00	**X**	STANDARD	WHITE		GOOD	8008		5-Aug-15
8008	225	1.02	0.08	**X**	STANDARD	RED		GOOD	8008		5-Aug-15
8008	226	1.08	0.08	**X**	STANDARD	RED		GOOD	8008		5-Aug-15
8008	227	1.33	0.13	**X**	STANDARD	RED		GOOD	8008		5-Aug-15

AH Environmental

DDobson@ahenv.com

3-6 August 2015

PAX River/ Webster Field

8008 Renovations

XRF Readings

BLDG	XRF#	Pb	(+/-)	LL	COMPONENT	COLOR	SUBSTRATE	CONDITION	LOCATION	NOTE	Date
8008	2	1.05	0.08	**X**	STANDARD	RED		GOOD	8008 exterior	cal	6-Aug-15
8008	3	1.00	0.07	**X**	STANDARD	RED		GOOD	8008 exterior	cal	6-Aug-15
8008	4	1.14	0.08	**X**	STANDARD	RED		GOOD	8008 exterior	cal	6-Aug-15
8008	5	0.00	0.00		WALL	WHITE	WOOD	GOOD	NW FOYER		6-Aug-15
8008	6	0.00	0.00		DOOR FRAME	WHITE	WOOD	GOOD	NW FOYER		6-Aug-15
8008	7	0.00	0.00		DOOR TRIM	WHITE	WOOD	GOOD	NW FOYER		6-Aug-15
8008	8	0.00	0.00		DOOR TRIM	WHITE	WOOD	GOOD	NW FOYER		6-Aug-15
8008	9	**0.80**	**0.00**	**L**	WALL	WHITE	METAL	GOOD	NW FOYER		6-Aug-15
8008	10	**0.80**	**0.01**	**L**	WALL	WHITE	METAL	GOOD	NW		6-Aug-15
8008	11	**1.05**	**0.12**	**L**	WALL	WHITE	CEMENT	GOOD	NW		6-Aug-15
8008	12	**1.33**	**0.19**	**L**	WALL	WHITE	BLOCK	POOR	NW		6-Aug-15
8008	13	**2.47**	**0.41**	**L**	WALL	WHITE	BLOCK	FAIR	NW		6-Aug-15
8008	14	0.00	0.00		WINDOW	WHITE	WOOD	FAIR	west		6-Aug-15
8008	15	**0.80**	**0.03**	**L**	WALL	WHITE	METAL	GOOD	west		6-Aug-15
8008	16	0.00	0.00		WALL	WHITE	VINYL	GOOD	west		6-Aug-15
8008	17	**0.80**	**0.03**	**L**	WALL	WHITE	METAL	GOOD	west		6-Aug-15
8008	18	0.00	0.00		DOOR	WHITE	METAL	GOOD	SW		6-Aug-15
8008	19	0.00	0.00		DOOR FRAME	WHITE	METAL	GOOD	SW		6-Aug-15
8008	20	0.00	0.00		DOOR FRAME	GRAY	METAL	GOOD	South		6-Aug-15
8008	21	0.00	0.00		WALL	WHITE	METAL	GOOD	South		6-Aug-15
8008	22	0.00	0.00		WALL	WHITE	METAL	GOOD	South		6-Aug-15
8008	23	0.00	0.00		WALL	WHITE	CEMENT	GOOD	South		6-Aug-15
8008	24	0.00	0.00		MISCELLANEOUS	WHITE	METAL	GOOD	South	bollard	6-Aug-15
8008	25	0.00	0.00		MISCELLANEOUS	YELLOW	METAL	GOOD	South	bollard	6-Aug-15
8008	26	0.00	0.00		WALL	WHITE	METAL	GOOD	South		6-Aug-15
8008	27	0.00	0.00		WALL	WHITE	METAL	GOOD	South		6-Aug-15
8008	28	0.00	0.00		WALL	WHITE	CONCRETE	GOOD	South	foundation	6-Aug-15
8008	29	0.00	0.00		WALL	WHITE	CONCRETE	GOOD	South	foundation	6-Aug-15
8008	30	0.00	0.00		WALL	WHITE	BLOCK	GOOD	South		6-Aug-15
8008	31	0.00	0.00		WALL	BEIGE	VINYL	GOOD	South		6-Aug-15
8008	32	0.00	0.00		DOOR	WHITE	WOOD	GOOD	South		6-Aug-15

AH Environmental

DDobson@ahenv.com

3-6 August 2015

PAX River/ Webster Field

8008 Renovations

XRF Readings

BLDG	XRF#	Pb	(+/-)	LL	COMPONENT	COLOR	SUBSTRATE	CONDITION	LOCATION	NOTE	Date
8008	33	0.00	0.00		WALL	WHITE	METAL	GOOD	South		6-Aug-15
8008	34	0.00	0.00		TRIM	WHITE	WOOD	GOOD	South		6-Aug-15
8008	35	0.00	0.00		DOOR TRIM	WHITE	WOOD	GOOD	SE		6-Aug-15
8008	36	0.00	0.00		DOOR TRIM	WHITE	WOOD	GOOD	SE		6-Aug-15
8008	37	0.00	0.00		WALL	WHITE	BLOCK	GOOD	SE		6-Aug-15
8008	38	0.02	0.02		WALL	WHITE	METAL	GOOD	SE		6-Aug-15
8008	39	0.00	0.00		DOOR	BLACK	METAL	GOOD	SE		6-Aug-15
8008	40	0.00	0.00		DOOR TRIM	BLACK	WOOD	GOOD	SE		6-Aug-15
8008	41	0.00	0.00		WALL	WHITE	METAL	GOOD	SE		6-Aug-15
8008	42	**0.26**	**0.09**	**C**	MISCELLANEOUS	YELLOW	METAL	GOOD	SE	bollard	6-Aug-15
8008	43	0.00	0.00		DOOR FRAME	YELLOW	METAL	GOOD	SE		6-Aug-15
8008	44	0.00	0.00		WALL	WHITE	METAL	GOOD	SE		6-Aug-15
8008	45	0.00	0.00		WALL	WHITE	BLOCK	GOOD	SE	foundation	6-Aug-15
8008	46	0.00	0.00		WALL	WHITE	CONCRETE	GOOD	East	foundation	6-Aug-15
8008	47	0.01	0.02		WALL	WHITE	METAL	GOOD	East		6-Aug-15
8008	48	0.00	0.01		WALL	WHITE	METAL	GOOD	East		6-Aug-15
8008	49	0.00	0.00		WALL	WHITE	METAL	GOOD	NE		6-Aug-15
8008	50	0.00	0.00		WALL	WHITE	CONCRETE	GOOD	NE	foundation	6-Aug-15
8008	51	0.00	0.00		WALL	WHITE	BLOCK	GOOD	NE	foundation	6-Aug-15
8008	52	0.00	0.00		WALL	WHITE	METAL	GOOD	NE		6-Aug-15
8008	53	0.00	0.00		WALL	WHITE	METAL	GOOD	NE		6-Aug-15
8008	54	0.00	0.00		WALL	WHITE	METAL	GOOD	North		6-Aug-15
8008	55	0.00	0.00		WALL	WHITE	METAL	GOOD	North		6-Aug-15
8008	56	**0.80**	**0.00**	**L**	WALL	WHITE	METAL	GOOD	NE		6-Aug-15
8008	57	0.01	0.02		WALL	WHITE	METAL	GOOD	NE		6-Aug-15
8008	58	**0.80**	**0.00**	**L**	WALL	WHITE	METAL	GOOD	NE		6-Aug-15
8008	59	**0.16**	**0.06**	**D**	WALL	WHITE	BLOCK	GOOD	NE	foundation	6-Aug-15
8008	60	**0.80**	**0.01**	**L**	WALL	WHITE	BLOCK	GOOD	North	foundation	6-Aug-15
8008	61	0.01	0.03		WALL	WHITE	METAL	GOOD	North		6-Aug-15
8008	62	**0.80**	**0.00**	**L**	WALL	WHITE	METAL	GOOD	North		6-Aug-15
8008	63	0.00	0.00		WINDOW TRIM	WHITE	WOOD	GOOD	North		6-Aug-15

PAX River/ Webster Field

8008 Renovations

XRF Readings

BLDG	XRF#	Pb	(+/-)	LL	COMPONENT	COLOR	SUBSTRATE	CONDITION	LOCATION	NOTE	Date
8008	64	0.00	0.00		WALL	WHITE	WOOD	GOOD	North		6-Aug-15
8008	65	0.00	0.00		WALL	WHITE	WOOD	GOOD	North		6-Aug-15
8008	66	**0.08**	**0.08**	**D**	RAILING	WHITE	METAL	GOOD	North		6-Aug-15
8008	67	0.00	0.00		DOOR	WHITE	METAL	GOOD	North		6-Aug-15
8008	68	0.00	0.00		DOOR FRAME	WHITE	METAL	GOOD	North		6-Aug-15
8008	69	0.00	0.00		DOOR TRIM	WHITE	WOOD	GOOD	North		6-Aug-15
8008	70	0.00	0.00		WALL	WHITE	METAL	GOOD	North		6-Aug-15
8008	71	0.00	0.00		WALL	WHITE	METAL	GOOD	North		6-Aug-15
8008	72	**0.80**	**0.11**	**L**	WALL	WHITE	CEMENT	GOOD	North		6-Aug-15
8008	73	0.00	0.00		MISCELLANEOUS	RED	METAL	GOOD	West	bollard	6-Aug-15
8008	74	0.00	0.00		MISCELLANEOUS	YELLOW	METAL	GOOD	West	bollard	6-Aug-15
8008	75	0.00	0.00		MISCELLANEOUS	YELLOW	METAL	GOOD	West	tank	6-Aug-15
8008	76	0.00	0.00		MISCELLANEOUS	YELLOW	METAL	GOOD	West	tank	6-Aug-15
8008	77	1.06	0.08	**X**	STANDARD	RED		GOOD	PAX-WEB_8008	ext	6-Aug-15
8008	78	1.03	0.08	**X**	STANDARD	RED		GOOD	PAX-WEB_8008	ext	6-Aug-15
8008	79	1.01	0.07	**X**	STANDARD	RED		GOOD	PAX-WEB_8008	ext	6-Aug-15
8008	80	0.00	0.00	**X**	STANDARD	WHITE		GOOD	PAX-WEB_8008	ext	6-Aug-15

AH Environmental
DDobson@ahenv.com

3-6 August 2015

15039969

AH Environmental Consultants Inc. **Bulk Soil Analysis**

Date: 15 DEC 2015 *Location:* **NAS PAX River/ Webster Fld**

Project: **AH #122-71, WW/BMCD** *Building:* **8008**

Former UST area

Sample Number (Bldg- Type- Number)	Sample Description/ Location
8008-S01	**Bulk Soil Grab**: BTEX, MTBE, and TPH (diesel range)
	Northside former UST; 7'-8' depth (clay)
8008-S02	**Bulk Soil Grab**: BTEX, MTBE, and TPH (diesel range)
	Northside former UST; 12' depth (mix) @ water table
~~8008-S03~~	~~**Bulk Soil Grab**: BTEX, MTBE, and TPH (diesel range)~~
	~~Northside former UST;~~

Notes ~~8~~ 3 **Day TAT**

Relinquished by (Signature)	Date	Received by (Signature)	Company	Date
DDobson	17 DEC 2015			
Relinquished by (Signature)	**Date**	**Received by (Signature)**	**Company**	**Date**

Page 1 of 1

11837 Rock Landing Dr., Suite 300
Newport News, VA 23606

PH: (757) 873-4959
FX: (757) 873-4952
ddobson@ahenv.com

MC DEC 18 2015 11:40AM

Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer: SanAir Technologies Laboratory, Inc. (3499)
Address: 1551 Oakbridge Drive, Ste. B
Powhatan, VA 23139

Attn:

Project: NASPAX River/Webster Fld 8008
Location: Former UST Area
Number: AH 122-71 WW/BMCD

Order #: 154081

Matrix Soil
Received 12/18/15
Reported 12/23/15

PO Number: 15039969

Sample ID / Parameter	Cust. Sample ID	Location / Method	Result	RL*	Units	Analysis Date	Analyst
154081-001	8008-S01	N Side 7-8 Depth					
Organics Environmental							
DRO		SW846 8015C / 3510	**83.3**	10.6	mg/kg	12/21/15	THN
DRO - Surrogate Recoveries							
Chrysene		50%					
MTBE		SW846 8021B	**<6.20**	6.20	µg/Kg	12/22/15	THN
Volatile Organic Compounds							
Benzene		SW846 8260B / EPA 5035A	**<2.05**	2.05	µg/Kg	12/22/15	THN
Ethylbenzene		SW846 8260B / EPA 5035A	**<2.05**	2.05	µg/Kg	12/22/15	THN
Toluene		SW846 8260B / EPA 5035A	**<2.05**	2.05	µg/Kg	12/22/15	THN
Xylenes, Total		SW846 8260B / EPA 5035A	**<6.15**	6.15	µg/Kg	12/22/15	THN
BTEX - Surrogate Recoveries							
4-Bromofluorobenzene		105%					
154081-002	8008-S02	N Side 12 Depth					
Organics Environmental							
DRO		SW846 8015C / 3510	**13.2**	8.34	mg/kg	12/21/15	THN
DRO - Surrogate Recoveries							
Chrysene		76%					
MTBE		SW846 8021B	**<5.13**	5.12	µg/Kg	12/22/15	THN
Volatile Organic Compounds							
Benzene		SW846 8260B / EPA 5035A	**<2.05**	2.05	µg/Kg	12/22/15	THN
Ethylbenzene		SW846 8260B / EPA 5035A	**<2.05**	2.05	µg/Kg	12/22/15	THN
Toluene		SW846 8260B / EPA 5035A	**<2.05**	2.05	µg/Kg	12/22/15	THN
Xylenes, Total		SW846 8260B / EPA 5035A	**<6.15**	6.15	µg/Kg	12/22/15	THN
BTEX - Surrogate Recoveries							
4-Bromofluorobenzene		100%					

154081-12/23/15 04:20 PM

Reviewed By: **Ben Wood**
Organics Analyst

All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. PPM = mg/kg | PPB = µg/kg. The test results reported relate only to the samples submitted.

Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer: SanAir Technologies Laboratory, Inc. (3499)
Address: 1551 Oakbridge Drive, Ste. B
Powhatan, VA 23139

Attn:

Project: NASPAX River/Webster Fld 8008
Location: Former UST Area
Number: AH 122-71 WW/BMCD

Order #: 154081

Matrix Soil
Received 12/18/15
Reported 12/23/15

PO Number: 15039969

Sample ID / Parameter	Cust. Sample ID	Location / Method	Result	RL*	Units	Analysis Date	Analyst

Certifications

Parameter	Method	Matrix	CT	VA
Benzene	SW846 8260B	Soil		
DRO	SW846 8015C	Soil	X	X
Ethylbenzene	SW846 8260B	Soil		
MTBE	SW846 8021B	Soil		
Toluene	SW846 8260B	Soil		
Xylenes, Total	SW846 8260B	Soil		

Key

State	Regulatory Agency - Lab ID	Certificate Number
CT	CT DPH	PH-0118
VA	Virginia DCLS/DEQ - 460135	8040

'X' indicates that the analyte is accredited.

If your state is not listed above, call laboratory for accreditation/certification information.

All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. PPM = mg/kg | PPB = µg/kg. The test results reported relate only to the samples submitted.

2013 Inspection Data

Naval Air Station Patuxent River

Building 8008 Addition & Study

Final Concept Submission
Project Support Booklet

EBL Project #10902.022

Submission Date:
July 2, 2013

Prepared By:

Mechanical, Electrical & Fire Protection
EBL Engineers, LLC
8005 Harford Road
Baltimore, Maryland 21234
410.668.8000
410.668.8001 (fax)

Architectural
Marshall Craft Associates, Inc.
6112 York Road
Baltimore, MD 21212-2611

Civil
Whitney, Bailey, Cox & Magnani, LLC
849 Fairmount Avenue, Suite 100
Baltimore, MD 21286

Structural
Whitney, Bailey, Cox & Magnani, LLC
849 Fairmount Avenue, Suite 100
Baltimore, MD 21286

Geotechnical
Schnabel Engineering, LLC
1504 Woodlawn Drive
Baltimore, MD 21207

Hazmat
KCI Technologies Inc.
936 Ridgebrook Road
Sparks, MD 21152

Cost Estimating
US Cost
201 12th Street, Suite 502
Arlington, VA 22202

Hazardous Building Materials Survey Report

Building 8008
Webster Field
St. Inigoes, Maryland

Prepared For
Robert H. Stratemeyer, PE
Senior Vice President
EBL Engineers, LLC
8005 Harford Road
Baltimore, MD 21234

Prepared By
KCI Technologies Inc.
936 Ridgebrook Road
Sparks, Maryland 21152
KCI Job No: 12122776

Re-Submission Date: April 10, 2013
Original Report Date: January 28, 2013

Hazardous Materials Survey Report

Of

Building 8008
Webster Field
St. Inigoes, Maryland 20684

Prepared For:

Robert H. Stratemeyer, PE
Senior Vice President
EBL Engineers, LLC
8005 Harford Road
Baltimore, MD 21234

Prepared By:

KCI Technologies, Inc.
936 Ridgebrook Road
Sparks, Maryland 21152
KCI Project: 12122776

Re-Submission Date: April 10, 2013
Original Report Date: January 28, 2013

Executive Summary

KCI Technologies, Inc. (KCI) was retained by EBL Engineering, LLC (Client) to conduct a Hazardous Materials Survey for Building 8008 located at the Webster Field facility of the Patuxent River Naval Air Station in St. Inigoes, Maryland. This report was prepared in general accordance with KCI's proposal, dated August 20, 2012.

KCI conducted a survey for asbestos-containing materials. KCI identified the following asbestos-containing materials (ACM):

- Approximately 244 linear feet of white pipe insulation
- Approximately 273 linear feet of grey insulation wrap and brown pipe insulation
- Mudded insulation on approximately 111 pipe fittings
- Approximately 120 square feet of grey 12 inch floor tile
- Approximately 200 square feet of pink 9 inch floor tile
- Approximately 2,600 square feet of floor tile mastic
- Approximately 5,975 square feet of transite siding
- Approximately 1,380 square feet of transite board
- Four fire doors, which were assumed to contain asbestos.
- Approximately 25,000 square feet of roofing materials, which were assumed to contain asbestos.
- The boiler, which was assumed to contain materials such as interior insulation, packings, gaskets or fire bricks that may contain asbestos
- Joint compound in rooms 100-108, 114A, 112, 124A-D, 201, as well as closets, restrooms and corridors within this area. The joint compound is applied to approximately 18,665 square feet of drywall. Joint compound in other areas of the building, which consist of newer additions, was not found to contain asbestos, based on extensive sampling.

KCI conducted a Lead Based Paint (LBP) screening of representative areas throughout the warehouse. This survey identified LBP on the following surfaces:

- Steel pipes painted white and green located above the ceiling in office areas.
- Concrete masonry unit walls, painted white and blue throughout the building, including both interior and exterior walls.
- Wood trim painted white on the exterior of the kitchen exhaust fan.
- Steel I-beams throughout the shop area.

KCI investigated the site for other potentially hazardous materials, including equipment that may contain polychlorinated biphenyls (PCBs), mercury, or refrigerants. The investigation identified the following:

- KCI identified approximately 300 fluorescent light ballasts throughout the building. KCI inspected a representative number and identified "No PCB's" labels on each ballast inspected.
- Approximately 750 mercury-containing fluorescent lamps were observed throughout the building.
- KCI observed approximately 25 pieces of equipment that may contain regulated refrigerants.
- KCI observed approximately 35 mercury-containing thermostats throughout the building

Prior to any renovations, KCI recommends that this report be used to determine if hazardous or regulated building materials will be disturbed. Locations and quantities of hazardous or regulated materials should be included in contract documents. Demolition or renovation that will disturb or remove regulated materials should be performed in accordance with applicable Federal, State and local regulations as well as applicable sections of the United Facilities Guide Specifications (UFGS).

Table of Contents

Executive Summary ..... ES-i
1.0 Introduction 1
2.0 Site Description 1
3.0 Relevant Regulations and Terminology 1
4.0 HAZMAT Survey 2
4.1 Asbestos-Containing Materials (ACMs) Survey 2
4.2 Lead Based Paint (LBP) Screening 9
4.3 Other Hazardous Materials 12
5.0 Conclusions and Recommendations 13
5.1 Asbestos-Containing Material 13
5.2 Lead Based Paint 14
5.3 Additional Recommendations 15
6.0 Disclaimer 15

List of Tables

Table 4.1.1: Suspect Asbestos Bulk Sample Log……3
Table 4.1.2: Homogenous Materials Summary……..6
Table 4.2.1: Summary of Positive XRF Results...…….....……9

Appendices

Appendix A: Floor Plans
Appendix B: Definitions of Asbestos-Related Terms
Appendix C: Asbestos Certificate of Analysis
Appendix D: Suspect ACM Sample Locations
Appendix E: Locations of Samples of Non-Asbestos Containing Joint Compound
Appendix F: Site Photographs
Appendix G: Room-by-Room Table of Asbestos-Containing Materials

1.0 Introduction

KCI Technologies, Inc. (KCI) was retained by EBL Engineering, LLC (Client) to conduct a Hazardous Materials Survey for Building 8008 located at the Webster Field facility of the Patuxent River Naval Air Station in St. Inigoes, Maryland. This report was prepared in general accordance with KCI's proposal, dated August 20, 2012.

The scope of work included: (1) visual observations of the building and property; (2) bulk sampling and analysis and quantification of suspect asbestos-containing materials; (3) analysis of selected painted surfaces for the presence of lead; (4) and generation of this report documenting the findings.

The scope of work was limited to fixed building materials. Equipment and supplies used in industrial processes were not assessed in this investigation.

2.0 Site Description

Building 8008 is an 18,484 square foot facility built in 1945. Multiple additions and renovations have been added to the building. Most of Building 8008 is one story slab on grade construction, although a small portion of the building has a second floor. Floor plans of Building 8008 are included in Appendix A.

3.0 Relevant Regulations and Terminology

3.1 Asbestos

The US Environmental Protection Agency (EPA) defines an asbestos-containing material as "any material containing greater than one percent asbestos as determined using the method specified in appendix A, subpart F, 40 CFR part 763, Section 1, PLM."

The Asbestos National Emissions Standards for Hazardous Air Pollutants (NESHAP) regulations protect the public by minimizing the release of asbestos fibers during activities involving the processing, handling, and disposal of asbestos-containing material. Accordingly, the Asbestos NESHAP specifies work practices to be followed during demolitions and renovations of all structures, installations, and buildings (excluding residential buildings that have four or fewer dwelling units). In addition, the regulations require the owner of the building and/or the contractor to notify applicable State and local agencies and/or EPA Regional Offices before all demolitions, or before renovations of buildings, if the amount of regulated asbestos-containing material (RACM) is greater than 260 linear feet, 160 square feet, or 35 cubic feet.

Regulated Asbestos-Containing Material (RACM) is

(a) Friable asbestos material,
(b) Category I non-friable ACM that has become friable,
(c) Category I non-friable ACM that will be or has been subjected to sanding, grinding, cutting or abrading, or
(d) 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 operations.

Friable asbestos-containing material (ACM), as defined by the EPA, is an asbestos-containing material that, when dry, can be crumbled, pulverized or reduced to powder by hand pressure.

Non-friable ACM is an asbestos-containing material, that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure. EPA defines two categories of non-friable ACM, Category I and Category II non-friable ACM. Category I non-friable ACM is an asbestos-containing packing, gasket, resilient floor covering or asphalt roofing product. Category II non-friable ACM is a non-friable asbestos-containing material, excluding Category I non-friable ACM.

In addition to EPA regulations, the Occupational Safety and Health Administration (OSHA) regulates workers' potential exposure to asbestos. OSHA regulations requires building owners to notify contractors of locations and quantities of asbestos-containing materials. Contractors who remove or disturb asbestos-containing materials must also follow OSHA regulations for worker protection, contained in 29CFR1926.1101

Definitions of other asbestos-related terms are included in Appendix B.

3.2 Lead-Based Paint

Lead-based paint is defined as >0.7 mg/cm^2 by the Maryland Department of the Environment (MDE) and >1.0 mg/cm^2 by the U. S. Dept. of Housing and Urban Development (HUD). Materials containing lead-based paint are regulated in two ways during renovation and demolition. First, OSHA requires that contractors follow the requirements of 29CFR1926.62 when workers are disturbing lead-based paint. Additionally, waste that includes lead-based paint should be tested prior to disposal for lead in leachate by the toxicity characteristic leachate procedure (TCLP). Waste with more than 5 milligrams of lead per liter of leachate must be handled and disposed of as hazardous waste.

4.0 HAZMAT Survey

4.1 Asbestos-Containing Materials (ACMs) Survey

KCI representative Mr. Joshua Julius conducted the ACM survey of the subject site between November 27 and December 19, 2012. Mr. Julius is an Environmental Protection Agency (EPA) AHERA accredited asbestos building inspector. The scope of work included a visual evaluation of potential ACMs and the collection of bulk samples of these materials. The visual evaluation included categorizing each material as friable or non-friable.

KCI's building inspector collected 95 bulk samples of the suspect ACMs using a metal utility knife that was driven through the suspect material to the substrate in order to obtain a sample containing all discrete layers. The samples were then placed in sealable plastic bags and assigned unique identifiers that were recorded on the bags and on the bulk survey sampling sheets. The suspect asbestos bulk samples were submitted, along with chain-of-custody forms, to AMA Analytical Inc. (AMA) in Lanham, Maryland. AMA is accredited by the American Industrial Hygiene Association, AIHA #100470, and National Institute of Standards and Technology through the National Voluntary Laboratory Accreditation Program (NVLAP) for Bulk Asbestos Analysis, NVLAP # 10920.

Samples of bulk material were analyzed using polarized light microscopy (PLM)/Dispersion Staining following the EPA method 600/R-93/116, July 1993, "Method for the Determination of Asbestos in Bulk Building Materials". PLM is an optical microscopic technique that distinguishes the different types of asbestos fibers by their shape and unique optical properties. The technique is based on the refraction of light from various crystalline asbestos structures and the observation of the corresponding color changes

through the microscope. One sample, which PLM indicated contained trace asbestos, was subsequently analyzed by transmission electron microscopy (TEM), which has greater resolution than PLM.

The results of the analysis of the bulk samples are summarized in Table 4.1.1 below. The asbestos certificates of analysis are included in Appendix C of this report. The sample locations are included in Appendix D of this report.

Table 4.1.1 - Suspect Asbestos Bulk Sample Log

Sample Number	Material Description	Sample Location	Result
8008-1	2x4 Ceiling Tile – worm and dot	Rm 116	NAD
8008-2	Drywall	Corridor outside 117	NAD
8008-3	Joint Compound	Corridor outside 117	NAD
8008-4	12" Floor Tile – dark grey	Rm 113	NAD
8008-5	Mastic	Beneath 8008-4	NAD
8008-6	Covered Drywall	Rm 113	NAD
8008-7	12" Floor Tile – beige with brown streaks	Rm 114A	NAD
8008-8	Black Floor Tile Mastic	Beneath 8008-7	2% C
8008-9	12" Floor Tile – beige with brown flecks	Rm 114A	NAD
8008-10	Yellow Floor Tile Mastic	Beneath 8008-9	2% C
8008-11	2x4 Ceiling Tile – pinwheel	Bathroom near 114A	NAD
8008-12	Drywall	Above drop ceiling in 114A	NAD
8008-13	Drywall	Above drop ceiling in 107	NAD
8008-14	Joint Compound	Above drop ceiling in 107	2% C
8008-15	Tan Carpet Mastic	Rm 107	NAD
8008-16	12" Floor Tile – off white with brown streaks	Rm 107	NAD
8008-17	Black Floor Tile Mastic	Beneath 8008-16	2% C
8008-18	9" Floor Tile – red feaux terracottta	Foyer	NAD
8008-19*	Beige Floor Tile Mastic	Beneath 8008-18	<1% C
8008-20	Covebase – green	Rm 105	NAD
8008-21	Covebase mastic	Behind 8008-20	NAD
8008-22	12" Floor Tile – white with green streaks	Rm 105	NAD
8008-23	Yellow Floor Tile Mastic	Beneath 8008-22	NAD
8008-24	White Floor Leveling Compound	Rm 105	NAD
8008-25	Cement Board Panel on Wall	Foyer near room 105	15% C
8008-26	Felt behind Cement Board	Foyer near room 105	NAD
8008-27	Cement Board Panel on Ceiling	Foyer near room 105	15% C
8008-28	Tan Carpet Mastic	Rm 104	NAD
8008-29	9" Floor Tile – pink	Rm 104	2% C
8008-30	Black Floor Tile Mastic	Beneath 8008-29	3% C
8008-31	2x4 Ceiling Tile – worm and dot	Rm 104	NAD
8008-32	Covebase – grey	Rm 103	NAD
8008-33	Covebase mastic	Behind 8008-32	NAD

Table 4.1.1 - Suspect Asbestos Bulk Sample Log

Sample Number	Material Description	Sample Location	Result
8008-34	12" Floor Tile – light beige with brown and grey streaks	Rm 103 top layer	NAD
8008-35	12" Floor Tile – bluish grey	Rm 103 middle layer	NAD
8008-36	Yellow Floor Tile Mastic	between 8008-34 and 35	NAD
8008-37	Floor Tile – off white	RM 103 bottom layer	NAD
8008-38	Black Floor Tile Mastic	Beneath 8008-37	2% C
8008-39	Covebase – brown	Bathroom near 101	NAD
8008-40	Covebase Mastic	Behind 8008-39	NAD
8008-41	12" Floor Tile – beige with brown and grey specks	Bathroom near 101	NAD
8008-42	Tan Floor Tile Mastic	Beneath 8008-41	2% C
8008-43	2x4 Ceiling Tile – patterned	Bathroom near 101	NAD
8008-44	12" Floor Tile – white with grey and dark grey streaks	Rm 100 top layer	NAD
8008-45	Yellow Floor Tile Mastic	Beneath 8008-44	NAD
8008-46	12" Floor Tile – grey	Rm 100 bottom layer	5% C
8008-47	Brown Floor Tile Mastic	Beneath 8008-46	3% C
8008-48	Pipe Insulation Wrap – grey	Rm 100 - cold water	20% C
8008-49	Pipe Insulation – brown and layered	Rm 100 - cold water	NAD
8008-50	Pipe Insulation Wrap – grey	Women's room - cold water	10% C
8008-51	Pipe Insulation – brown and layered	Women's room - cold water	<1% C
8008-52	Pipe Insulation – white	Women's room - hot water	20% C
8008-53	Pipe Fitting Insulation – grey	Women's room - hot water	60% C
8008-54	Pipe Insulation Wrap – grey	Men's room - cold water	20% C
8008-55	Pipe Insulation – brown and layered	Men's room - cold water	2% C
8008-56	Pipe Insulation – white	Men’s room - hot water	30% C
8008-57	Pipe Fitting Insulation – grey	Men's room - cold water	60% C
8008-58	Pipe Fitting Insulation – grey	Men's room - cold water	60% C
8008-59	Pipe Insulation – white	Men's room - hot water	30% C
8008-60	Duct Seam Sealant – grey	Duct work outside of Rm 108	NAD
8008-61	Transite Siding	Outside of Rm 101	15% C
8008-62	Endcap over Fiberglass	Mechanical Room	NAD
8008-63	Flange Gasket	Mechanical Room	NAD
8008-64	Mortar around Old Chimney Opening	Mechanical Room	NAD
8008-65	Mortar around New Chimney Opening	Mechanical Room	NAD
8008-66	Sleeve through Chimney Opening	Mechanical Room	NAD
8008-67	Felt behind wood siding	Rm 136	NAD
8008-68	Covebase – tan	Corridor outside 114	NAD
8008-69	12" Floor Tile – light brown	Corridor outside 114	NAD
8008-70	Yellow Floor Tile Mastic	Beneath 8008-69	NAD

Table 4.1.1 - Suspect Asbestos Bulk Sample Log

Sample Number	Material Description	Sample Location	Result
8008-71	12" Floor Tile – white with grey flecks	Rm 118	NAD
8008-72	Yellow Floor Tile Mastic	Beneath 8008-71	NAD
8008-73	12" Floor Tile – mulitcolored specks	Rm 119 top layer	NAD
8008-74	Yellow Floor Tile Mastic	Beneath 8008-73	NAD
8008-75	12" Floor Tile – grey with grey specks	Rm 119 bottom layer	NAD
8008-76	Yellow Floor Tile Mastic	Beneath 8008-75	NAD
8008-77	Pipe Fitting Insulation – white	Rm 130	25% C
8008-78	Transite Board	Ceiling of Rm 131	15% C
8008-79	12" Floor Tile – grey speckled	Rm 134C	NAD
8008-80	Yellow Floor Tile Mastic	Beneath 8008-79	NAD
8008-81	Drywall	Rm 201	NAD
8008-82	Joint Compound	Rm 201	2% C
8008-83	12" Floor Tile – tan with brown streaks	Rm 201	NAD
8008-84	Yellow Floor Tile Mastic	Beneath 8008-83	NAD
8008-85	Joint Compound	Corridor Opposite Rm 113	NAD
8008-86	Joint Compound	Corridor outside Rm 118	NAD
8008-87	Joint Compound	Rm 116	NAD
8008-88	Joint Compound – over plywood	Rm 122	NAD
8008-89	Joint Compound	Rm 122	NAD
8008-90	Joint Compound	Rm 125A	NAD
8008-91	Joint Compound – over plywood	Rm 125A	NAD
8008-92	Joint Compound	Corridor outside Rm 125A	NAD
8008-93	Joint Compound	Corridor outside Rm 126	NAD
8008-94	Joint Compound	Rm 126	NAD
8008-95	Joint Compound – over plywood	Rm 128	NAD

Notes:
C – Chrysotile Asbestos NAD – No Asbestos Detected
* Sample analyzed by Transmission Electron Microscopy

Based on the results of the asbestos analysis, 26 of the 95 samples of suspect ACM were determined to contain greater than 1% asbestos by PLM analysis, and are therefore considered ACM under the EPA's definition.

Samples of joint compound collected in rooms 201 and 107 contained asbestos. Because these rooms are in the area of the building reported to have been part of the original construction, and because other joint compound samples did not contain asbestos, KCI hypothesized that only joint compound in the older portions of the building contain asbestos. For the purposes of categorizing joint compound, KCI defined the older portions of the building as Rooms 100-108, 114A, 112, 134A-D, and 201, as well as closets, corridors and restrooms within this area. KCI returned to the site on December 19 and collected an additional 11 samples of joint compound from areas outside of the defined older portions of the building to confirm the hypothesis. Locations of the samples of joint compound found not to contain asbestos are indicated on a sketch included as Appendix E.

A summary of all suspect ACM identified during KCI's survey at the subject site is provided in Table 4.1.2 below.

Table 4.1.2. Homogenous Materials Summary Table

Material Description	Material Location	Sample Numbers	Sample Results	Condition	Friable	Approx. Quantity
Pipe Insulation – white	Above ceilings in Rms 100, 108 and adjacent restrooms, 114A, 112, 201, and 130	8008-52, 8008-56, 8008-59	20%C, 30% C, 30% C	Good	Yes	244 LF
Pipe Insulation – brown		8008-49, 8008-51, 8008-55	NAD, <1%C, 2% C	Good	Yes	273 LF
Pipe Insulation Wrap – grey		8008-48, 8008-50, 8008-54	20%C, 10%C, 20% C	Good	Yes	273 LF
Pipe Fitting Insulation		8008-53, 8008-57, 8008-58, 8008-77	60% C, 60% C, 60% C, 25% C	Good	Yes	111 EA
FT1 – 12" Floor Tile – dark grey	Rms 113, 114	8008-4	All NAD	NA	NA	NA
FT2 – 12" Floor Tile – beige with brown streaks	Rm 114A	8008-7				
FT3 – 12" Floor Tile – beige with brown flecks	Rm 114A, 121	8008-9				
FT4 – 12" Floor Tile – off white with brown streaks	Rms 107, 106, 108, adjacent corridor and restrooms	8008-16				
FT5 – 9" Floor Tile – red feaux terracottta	Foyer near Room 104	8008-18				
FT6 – 12" Floor Tile – white with green streaks	Room 105, restroom near Rm 125A	8008-22				
FT7 - 12" Floor Tile - light beige with brown and grey streaks	Rm 103 – top layer	8008-34				
FT8 – 12" Floor Tile – bluish grey	Rm 103 – middle layer	8008-35				
FT9 Floor Tile – offwhite	Rm 103 – bottom layer	8008-37				
FT10 – 12" Floor Tile – beige with brown and grey specks	Corridor outside of Rm 103; Rms 101, 102 and adjacent restroom	8008-41				
FT11 – 12" Floor Tile – light brown	Corridor between 113 and 117	8008-69				
FT12 – 12" Floor Tile – white with grey flecks	Rms 115 - 118	8008-71	All NAD	NA	NA	NA

Table 4.1.2. Homogenous Materials Summary Table

Material Description	Material Location	Sample Numbers	Sample Results	Condition	Friable	Approx. Quantity
FT13 - 12" Floor Tile – multicolored specks	Rms 119 and 120 – top layer	8008-73				
FT14 - 12" Floor Tile – grey with grey specks	Rm 119, 120, 122	8008-75				
FT15 – 12” Floor Tile – grey speckled	Rm 134C	8008-79				
FT16 - 12" Floor Tile – tan with brown streaks	Rm 201	8008-83				
FT17 – 12" Floor Tile – white with grey and dark grey streaks	Rm 100 – top layer	8008-44				
FT18 – 12” Floor Tile – grey	Rm 100	8008-46	5% C	Good	No	120 SF
FT19 – 9” Floor Tile – Pink	Rm 104	8008-29	2% C	Good	No	200 SF
Floor Tile Mastics, beige, tan, brown, yellow and black, located beneath FT 2, 3, 4, 9, 10, 18, 19	Rms 100, 103, 104, 114A, 121; Rms 106, 107, 108, and adjacent corridor and restrooms; Rms 101, 102 and adjacent corridor and restroom	8008-8, 8008-10, 8008-17, 8008-47, 8008-30, 8008-38, 8008-42	2% C – 3% C	Good	No	2,600 SF
Floor Tile Mastics, tan, beige and yellow beneath FT1, 5, 6, 7, 8, 11, 12, 13, 14, 15, 16, 17	Top layers in Rms 100, 103; Rms 105, 113 – 120, 122, 134C, 201 and restroom near Rm 125A	8008-5, 8008-19, 8008-23, 8008-36, 8008-45, 8008-70, 8008-72, 8008-74, 8008-76, 8008-80, 8008-84	All NAD	NA	NA	NA
Ceiling Tiles – all sizes and styles	Throughout Building	8008-1, 8008-11, 8008-31, 8008-43	All NAD	NA	NA	NA
Drywall	Throughout Building	8008-2, 8008-6, 8008-12, 8008-13, 8008-81	All NAD	NA	NA	NA
Joint Compound in Rooms in Older Section	Rooms 100-108, 114A, 112, 134A-D, and 201, and closets, corridors and restrooms within this area.	8008-14, 8008-82	All 2% C	Damaged	Yes	18,665 SF
Joint Compound in Additions	Rooms 113-131, Room 136, and closets, corridors and restrooms within this area	8008-3, 8008-85, 8008-86, 8008-87, 8008-88, 8008-89, 8008-90, 8008-91, 8008-92, 8008-93, 8008-94, 8008-95	All NAD	NA	NA	NA

Table 4.1.2. Homogenous Materials Summary Table

Material Description	Material Location	Sample Numbers	Sample Results	Condition	Friable	Approx. Quantity
Covebase – all colors	Throughout Building	8008-20, 8008-32, 8008-39, 8008-68	All NAD	NA	NA	NA
Covebase Mastic	Throughout Building	8008-21, 8008-33, 8008-40	All NAD	NA	NA	NA
Duct Seam Sealant – grey	Exterior Ductwork	8008-60	NAD	NA	NA	NA
Transite Siding	Beneath aluminum siding on exterior; on walls in Rms 131, 131A, 136 and corridor outside of Rm 129	8008-61	15% C	Good	No	5,975 SF
Transite Board	Above exterior soffit; on ceiling of Rms 102, 113, 114, 136, 131, 131A; on ceiling and walls of Rm 105 and adjacent foyer.	8008-25, 8008-27, 8008-78	All 15% C	Good	No	1,380 SF
Endcap over Fiberglass Insulation	Throughout Building	8008-62	NAD	NA	NA	NA
Flange Gaskets	Mechanical Room	8008-63	NAD	NA	NA	NA
Packing around Chimney	Mechanical Room	8008-64, 8008-65, 8008-66	All NAD	NA	NA	NA
Felt behind Siding	Throughout Building	8008-67, 8008-26	NAD, NAD	NA	NA	NA
White Floor Leveling Compound	Room 105	8008-24	NAD	NA	NA	NA
Fire Doors	Rms 124, 136	Not Sampled	Assumed Positive	Good	NA	4 EA
Roofing Materials	Roof	Not Sampled	Assumed Positive	Good	No	25,000 SF
Boiler Materials	Mechanical Room	Not Sampled	Assumed Positive	Unknown	Unknown	Unknown

Notes:
NAD – No asbestos detected C – Chrysotile Asbestos SF-Square feet LF – Linear feet EA – Each

KCI identified the following asbestos-containing materials:

- Approximately 244 linear feet of white pipe insulation, located above the ceiling in Rooms 100, 108, 114A, and adjacent restrooms, within the wall of the closet next to Room 108, and in Rooms 112, 201 and 130.
- Approximately 273 linear feet of grey insulation wrap and brown pipe insulation, located above the ceiling in Rooms 100, 108, 114A, and adjacent restrooms, within the wall of the closet next to Room 108, and in Rooms 112, 201 and 130.
- Mudded insulation on approximately 111 pipe fittings, located above the ceiling in Rooms 100, 108, 114A, and adjacent restrooms, within the wall of the closet next to Room 108, and in Rooms 112, 201 and 130. Some fittings are inside PVC covers.

- Approximately 120 square feet of grey 12 inch floor tile, located beneath white floor tile in Room 100.
- Approximately 200 square feet of pink 9 inch floor tile, located beneath carpeting in Room 104.
- Approximately 2,600 square feet of floor tile mastic located in Rooms 100, 103, 104, 114A, 121, in Rooms 106, 107, 108, and adjacent corridor and restrooms and in Rooms 101 and 102 and adjacent corridor and restroom.
- Approximately 5,975 square feet of transite siding, located beneath aluminum siding on the exterior of the building, and located on interior walls, beneath drywall or plywood, in Rooms 131, 131A, 136, and in the corridor outside of Room 129.
- Approximately 1,380 square feet of transite board. This material is located on the ceiling of Rooms 102, 113, 114, 131, 131A and 136, and on the walls and ceilings of Room 104 and the adjacent foyer. It is also believed that this material is located above aluminum soffit, although it was not possible to confirm this without damaging the soffit.
- Four doors that were labeled as fire doors were assumed to contain asbestos. These doors are located in Rooms 124 and 136.
- Approximately 25,000 square feet of roofing materials have been assumed to contain asbestos. These materials were not sampled to maintain the integrity of the roof.
- The boiler, located in the mechanical room, was assumed to contain materials such as interior insulation, packings, gaskets or fire bricks that may contain asbestos. The interior of the boiler was not accessed as part of this survey.
- Joint compound in rooms 100-108, 114A, 112, 124A-D, 201, as well as closets, restrooms and corridors within this area. The joint compound is applied to approximately 18,665 square feet of drywall. Joint compound in other areas of the building were not found to contain asbestos.

Photographs of asbestos-containing materials are included in Appendix F. A detailed room-by-room table of asbestos-containing materials is included in Appendix G.

4.2 Lead Based Paint (LBP) Screening

KCI representative Josh Julius performed a LBP screening of the subject site in order to generally characterize interior and exterior painted surfaces for lead content. The testing for lead content in paints was performed with Thermo Scientific Niton XLp (model # XLp 303A) x-ray fluorescence (XRF) Spectrum Analyzer, an instrument that detects lead by reading the fluorescence emanating from a painted surface when exposed to small amounts of radiation. XRF readings are in mg/cm^2, a mass per area reading. LBP is defined as >0.7 mg/cm^2 by the MDE and >1.0 mg/cm^2 by the U. S. Dept. of Housing and Urban Development (HUD).

The LBP screening included 103 XRF readings including 12 calibration readings. Table 4.2.1 summarizes the LBP screening.

Table 4.2.1: Results Of Lead Based Paint Screening (mg/cm^2)

ID	Date And Time	Component	Substrate	Color	Location	Result
3240	11/27/2012 11:17	Calibration	SRM-2573	Red		1.1
3241	11/27/2012 11:17	Calibration	SRM-2573	Red		1.0
3242	11/27/2012 11:17	Calibration	SRM-2573	Red		1.1
3243	11/27/2012 11:24	Wall	Drywall	White	Rm 115	0.0
3244	11/27/2012 11:24	Wall	Drywall	White	Rm 116	0.0
3245	11/27/2012 11:25	Pipe	Metal	Red	Rm 116	0.0

Table 4.2.1: Results Of Lead Based Paint Screening (mg/cm^2)						
ID	**Date And Time**	**Component**	**Substrate**	**Color**	**Location**	**Result**
3246	11/27/2012 11:28	Trim	Wood	Beige	Rm 115	0.0
3247	11/27/2012 11:37	Door Frame	Metal	White	117	0.0
3248	11/27/2012 11:37	Door Frame	Metal	White	115	0.0
3249	11/27/2012 11:38	Window	Wood	White	Hall	0.0
3250	11/27/2012 11:39	Windowsill	Wood	White	Hall	0.02
3251	11/27/2012 11:41	Windowsill	Wood	Blue	114	0.0
3252	11/27/2012 11:41	Trim	Wood	Blue	114	0.0
3253	11/27/2012 11:41	Trim	Wood	Blue	114	0.0
3254	11/27/2012 12:12	Trim	Wood	Blue	114a	0.0
3255	11/27/2012 12:12	Trim	Wood	Blue	114a	0.0
3256	11/27/2012 12:12	Trim	Wood	Blue	114a	0.0
3257	11/27/2012 12:12	Trim	Wood	Blue	114a	0.02
3258	11/27/2012 12:13	Window	Wood	Blue	114a	0.0
3259	11/27/2012 12:13	Window	Wood	Blue	114a	0.03
3260	11/27/2012 12:16	Ceiling	Drywall	Yellow	114a	0.40
3261	11/27/2012 12:16	Ceiling	Drywall	Yellow	114a	0.08
3262	11/27/2012 12:20	Ceiling	Drywall	Yellow	114a	0.40
3263	11/27/2012 12:21	Wall	Drywall	Blue	114a	0.40
3264	11/27/2012 12:31	Ceiling	Drywall	White	107	0.02
3265	11/27/2012 13:49	Ceiling	Drywall	White	103	0.01
3266	11/27/2012 13:49	Ceiling	Drywall	White	103	0.01
3267	11/27/2012 13:49	Wall	Drywall	White	103	0.02
3268	11/27/2012 13:49	Wall	Drywall	White	103	0.01
3269	11/27/2012 13:51	Wall	Wood	White	103	0.0
3270	11/27/2012 13:51	Wall	Wood	White	103	0.0
3271	11/27/2012 13:51	Wall	Wood	White	103	0.0
3272	11/27/2012 14:12	Ceiling	Drywall	White	101	0.06
3273	11/27/2012 14:13	Ceiling	Drywall	White	101	0.06
3274	11/27/2012 14:13	Ceiling	Drywall	White	101	0.05
3275	11/27/2012 14:14	Ceiling	Drywall	White	101	0.05
3276	11/27/2012 14:15	Pipe	Metal	White	101	4.3
3277	11/27/2012 14:16	Wall	Drywall	White	101	0.0
3278	11/27/2012 14:17	Wall	Drywall	White	101	0.0
3279	11/27/2012 14:17	Wall	Drywall	White	101	0.02
3280	11/27/2012 14:17	Wall	Drywall	White	101	0.0
3281	11/27/2012 14:27	Ceiling	Drywall	White	Bathroom	0.09
3282	11/27/2012 14:27	Ceiling	Drywall	White	Bathroom	0.05
3283	11/27/2012 15:02	Ceiling	Drywall	White	Kitchen	0.5
3284	11/27/2012 15:02	Ceiling	Drywall	White	Kitchen	0.5
3285	11/27/2012 15:03	Wall	Drywall	White	Kitchen	0.6

Table 4.2.1: Results Of Lead Based Paint Screening (mg/cm^2)						
ID	**Date And Time**	**Component**	**Substrate**	**Color**	**Location**	**Result**
3286	11/27/2012 15:04	Wall	Drywall	White	Kitchen	0.1
3287	11/27/2012 15:04	Wall	Drywall	White	Kitchen	0.08
3288	11/27/2012 16:22	Calibration	SRM-2573	Red		1.1
3289	11/27/2012 16:22	Calibration	SRM-2573	Red		1.2
3290	11/27/2012 16:22	Calibration	SRM-2573	Red		1.2
3292	11/28/2012 12:23	Calibration	SRM-2573	Red		1.1
3293	11/28/2012 12:24	Calibration	SRM-2573	Red		1.0
3294	11/28/2012 12:24	Calibration	SRM-2573	Red		1.1
3295	11/28/2012 12:33	Trim	Wood	White	Outside	0.0
3296	11/28/2012 12:33	Trim	Wood	White	Outside	0.01
3297	11/28/2012 12:33	Trim	Wood	White	Outside	0.0
3298	11/28/2012 12:33	Trim	Wood	White	Outside	0.0
3299	11/28/2012 12:34	Trim	Wood	White	Outside	0.0
3300	11/28/2012 12:34	Door	Wood	White	Outside	0.0
3301	11/28/2012 12:34	Door	Wood	White	Outside	0.0
3302	11/28/2012 12:35	Door	Metal	White	Outside	0.0
3303	11/28/2012 12:35	Door	Metal	White	Outside	0.0
3304	11/28/2012 12:35	Trim around Kitchen Exhaust Vent	Wood	White	Outside	1.5
3305	11/28/2012 12:37	Trim	Wood	White	Outside	0.0
3306	11/28/2012 12:38	Trim	Wood	White	Outside	0.0
3307	11/28/2012 12:38	Door	Metal	White	Outside	0.0
3308	11/28/2012 12:38	Wall	CMU	White	Outside	1.3
3309	11/28/2012 12:39	Wall	CMU	White	Outside	3.4
3310	11/28/2012 12:39	Wall	CMU	White	Outside	2.4
3311	11/28/2012 12:43	Wall	CMU	White	Mechanical Room	0.01
3312	11/28/2012 12:43	Wall	CMU	White	Mechanical Room	-0.23
3313	11/28/2012 12:43	Wall	CMU	White	Mechanical Room	2
3314	11/28/2012 12:43	Wall	CMU	White	Mechanical Room	3.1
3315	11/28/2012 13:10	Bollard	Metal	White	Mechanical Room	0.0
3316	11/28/2012 13:10	Bollard	Metal	Yellow	Mechanical Room	0.0
3317	11/28/2012 13:19	Ladder	Metal	White	Mechanical Room	0.0
3318	11/28/2012 13:19	Trim	Wood	White	Mechanical Room	0.01
3319	11/28/2012 13:21	Door	Metal	White	Mechanical Room	0.0
3320	11/28/2012 14:17	Wall	CMU	White	Room 112	5.5
3321	11/28/2012 14:18	Wall	CMU	Blue	Room 112	4.1
3322	11/28/2012 14:36	Column	Metal	Blue	Room 112	0.01
3323	11/28/2012 14:37	Column	Metal	White	Room 112	0.13
3324	11/28/2012 14:37	Column	Metal	White	Room 112	0.14
3325	11/28/2012 14:37	Column	Metal	White	Room 112	0.01

Table 4.2.1: Results Of Lead Based Paint Screening (mg/cm^2)						
ID	**Date And Time**	**Component**	**Substrate**	**Color**	**Location**	**Result**
3326	11/28/2012 14:38	Column	Metal	White	Room 112	0.16
3327	11/28/2012 14:38	Column	Metal	White	Room 112	0.06
3328	11/28/2012 14:39	Pipe	Metal	White	Room 112	0.0
3329	11/28/2012 14:39	Pipe	Metal	White	Room 112	0.0
3330	11/28/2012 14:40	Duct	Metal	White	Room 112	0.0
3331	11/28/2012 14:41	I Beam	Metal	White	Room 112	0.8
3332	11/28/2012 14:41	I Beam	Metal	White	Room 112	0.4
3333	11/28/2012 14:59	Trim	Wood	Blue	Room 112	0.0
3334	11/28/2012 15:43	I Beam	Metal	White	Room 112	8.9
3335	11/28/2012 15:44	Column	Metal	White	Room 112	0.11
3336	11/28/2012 15:55	Wall	Drywall	White	Hall	0.0
3337	11/28/2012 15:56	Wall	Drywall	White	Hall	0.01
3338	11/28/2012 16:22	Wall	Drywall	White	201	0.02
3339	11/28/2012 16:22	Wall	Drywall	White	201	0.02
3340	11/28/2012 16:23	Wall	Drywall	Green	201	0.01
3341	11/28/2012 16:48	Calibration	SRM-2573	Red		1.1
3342	11/28/2012 16:48	Calibration	SRM-2573	Red		1.0
3343	11/28/2012 16:48	Calibration	SRM-2573	Red		1.1
Note: Shading indicates lead content greater than 0.7 mg/cm^2.						

Based on the results of the LBP survey, it was determined that the following surfaces contain LBP:

- Steel pipes painted white and green located above the ceiling in office areas.
- Concrete masonry unit walls, painted white and blue throughout the building, including both interior and exterior walls.
- Wood trim painted white on the exterior of the kitchen exhaust fan.
- Steel I-beams throughout the building.

4.3 Other Hazardous Materials

Polychlorinated Biphenyls (PCBs)

Polychlorinated biphenyls (PCBs) are synthetic organic chemicals used in some electrical transformers, hydraulic systems, fluorescent light ballasts, electrical panels, or other similar equipment. PCBs can be found in liquid, solid or vapor form, and are usually colorless or light yellow. The production of PCBs was stopped in the U.S. in 1977 because of mounting evidence that they build up in the environment and cause harmful effects.

PCB content in electrical transformers has been categorized into three classifications by the federal government. Those units that contain less than 50 parts per million (ppm) are defined as non-PCB. Units that contain between 50 ppm and less than 500 ppm of PCBs are defined as PCB-contaminated. Units with a PCB content of 500 ppm and greater are classified as PCB transformers. KCI observed two transformers located to the southwest of Building 8008.

KCI observed fluorescent lights throughout the subject site. Light ballasts manufactured prior to 1979 could contain PCBs. Generally, the ballast will contain about a teaspoon of concentrated (900,000 parts per million or greater) PCBs sealed inside the capacitor. The capacitor is usually surrounded by a tarlike potting material, which is in turn enclosed in the ballast box. KCI inspected a representative number of fluorescent light ballast while onsite. Of the light ballasts inspected, KCI was able to identify the "Non-PCB" labels on some of the ballasts while some ballast did not have a "Non-PCB" label. No staining or leaking was observed from the inspected ballasts. KCI estimates that approximately 300 ballasts are present within the project site.

di-2-ethylhexyl phthalate (DEHP)

It should be noted that in 1979 when PCBs were banned, many lighting manufacturers used di-2-ethylhexyl phthalate (DEHP) as a substitute dielectric fluid within the light ballast capacitors. By 1985, most manufacturers had stopped using DEHP in ballasts for four-foot lighting fixtures, but continued using it in ballasts for eight-foot lighting fixtures and HID fixtures until 1991. The US EPA, OSHA, and FDA currently regulate DEHP. Under RCRA, DEHP is listed as a hazardous waste when it is discarded in its pure form but not after it has been used (for example in lighting ballast). Under the Superfund Law, DEHP is listed as a hazardous substance which means that if a significant quantity is released into the environment the EPA may require the person responsible for the contamination (i.e. building owners, transporters, owners / operators of disposal facilities, etc.) to pay for all or part of the clean-up even in the absence of negligence or malicious intent. DEHP disposal is of particular concern with respect to Superfund because nearly half of the 1,300 Superfund sites are reported to be contaminated with DEHP.

Mercury Containing Equipment

KCI observed approximately 750 fluorescent light bulbs throughout the project site. Fluorescent lamps are regulated as Universal Waste and should be recycled or disposed appropriately. KCI also identified approximately 35 thermostats throughout the building.

Refrigerants

KCI observed approximately 25 sources of refrigerants, including air conditioning units, icemakers and drinking fountains. These pieces of equipment may contain regulated refrigerants, which will need to be drained by a certified professional prior to disturbance.

Aboveground Storage Tank

KCI observed one aboveground storage tank located to the southwest of the building immediately adjacent to the Boiler Room. This tank consists of a 1,000-gallon steel tank on a concrete pad.

5.0 Conclusions and Recommendations

5.1 Asbestos-Containing Materials

KCI identified the following asbestos-containing materials:

- Approximately 244 linear feet of white pipe insulation, located above the ceiling in Rooms 100, 108, 114A, and adjacent restrooms, within the wall of the closet next to Room 108, and in Rooms 112, 201 and 130.

- Approximately 273 linear feet of grey insulation wrap and brown pipe insulation, located above the ceiling in Rooms 100, 108, 114A, and adjacent restrooms, within the wall of the closet next to Room 108, and in Rooms 112, 201 and 130.
- Mudded insulation on approximately 111 pipe fittings, located above the ceiling in Rooms 100, 108, 114A, and adjacent restrooms, within the wall of the closet next to Room 108, and in Rooms 112, 201 and 130. Some fittings are inside PVC covers.
- Approximately 120 square feet of grey 12 inch floor tile, located beneath white floor tile in Room 100.
- Approximately 200 square feet of pink 9 inch floor tile, located beneath carpeting in Room 104.
- Approximately 2,600 square feet of floor tile mastic located in Rooms 100, 103, 104, 114A, 121, in Rooms 106, 107, 108, and adjacent corridor and restrooms and in Rooms 101 and 102 and adjacent corridor and restroom.
- Approximately 5,975 square feet of transite siding, located beneath aluminum siding on the exterior of the building, and located on interior walls, beneath drywall or plywood, in Rooms 131, 131A, 136, and in the corridor outside of Room 129.
- Approximately 1,380 square feet of transite board. This material is located on the ceiling of Rooms 102, 113, 114, 131, 131A and 136, and on the walls and ceilings of Room 104 and the adjacent foyer. It is also believed that this material is located above aluminum soffit, although it was not possible to confirm this without damaging the soffit.
- Four doors that were labeled as fire doors were assumed to contain asbestos. These doors are located in Rooms 124 and 136.
- Approximately 25,000 square feet of roofing materials have been assumed to contain asbestos. These materials were not sampled to maintain the integrity of the roof.
- The boiler, located in the mechanical room, was assumed to contain materials such as interior insulation, packings, gaskets or fire bricks that may contain asbestos. The interior of the boiler was not accessed as part of this survey.
- Joint compound in rooms 100-108, 114A, 112, 124A-D, 201, as well as closets, restrooms and corridors within this area. The joint compound is applied to approximately 18,665 square feet of drywall. Joint compound in other areas of the building were not found to contain asbestos.

Asbestos removal and control is regulated at both federal and state levels. At the federal level, demolition work that involves asbestos is controlled under three general categories of regulations. This includes Occupational Safety and Health Administration (OSHA) regulations, which are designed to protect the workers, Environmental Protection Agency (EPA) regulations, which are aimed at protection of the environment and human health, and the Department of Transportation (DOT) regulations, which focuses on transportation safety. State of Maryland regulations address worker protection, asbestos abatement work and hauling and disposal of asbestos waste materials.

Prior to renovation or demolition, KCI recommends that this report be consulted to determine if asbestos-containing materials will be disturbed or removed. Further investigation may be warranted to determine precise quantities of asbestos-containing materials that will be affected by proposed renovations.

KCI recommends that all asbestos-containing materials that will be impacted by any renovations or demolition be removed by a licensed abatement contractor in accordance with applicable local, State and Federal regulations, as well as United Facilities Guide Specifications (UFGS) section 02 83 16.00 20.

5.2 Lead Based Paint

Based on the results of the lead-based paint screening, it was determined that the following surfaces contain lead-based paint:

- Steel pipes painted white and green located above the ceiling in office areas.
- Concrete masonry unit walls, painted white and blue throughout the building, including both interior and exterior walls.
- Wood trim painted white on the exterior of the kitchen exhaust fan.
- Steel I-beams throughout the shop areas.

KCI recommends that any renovations or demolitions that disturb lead based paint be performed in accordance with applicable local, State and Federal regulations, as well as United Guide Facilities Specifications (UFGS) section 02 82 33.13 20

It should be noted that the Occupational Safety and Health Administration (OSHA) does not recognize the MDE or HUD definitions of lead-based paint. The contractors working on renovations should make their own determination about compliance with OSHA's lead in construction standard, 29CFR1926.62, based on the results provided.

5.3 Additional Recommendations

During the survey, KCI observed potential sources of polychlorinated biphenyls. KCI recommends that the light ballasts be disposed of according to state and federal regulation. KCI recommends that potential mercury containing lamps and thermostats be removed and disposed of and/or recycled properly.

KCI recommends that refrigerant be collected by qualified professionals, in accordance with EPA regulations, from all the equipment prior to their removal or disposal.

6.0 Disclaimer

This report has been prepared by KCI Technologies, Inc. exclusively for our Client and their Authorized Representatives. The findings and recommendations presented are based upon discussions with the Client of the present conditions, and may not necessarily indicate future conditions. KCI implies no warranty to the accuracy of information provided them by the Client or outside agents and transmitted herein. The locations and conditions of hazardous materials included in the report are based on the site observations performed during the survey.

M:\2012\12122776\REPORTS\RESUBMISSION\HAZMAT REPORT.DOC

APPENDIX C:
LABORATORY CERTIFICATES OF ANALYSIS

AMA Analytical Services, Inc.

A Specialized Environmental Laboratory

CERTIFICATE OF ANALYSIS

NVLAP® 101143-0

Client:	KCI Technologies, Inc.	**Job Name:**	Building 8008	**Chain Of Custody:**	222350
Address:	936 Ridgebrook Road	**Job Location:**	St. Inigoes	**Date Analyzed:**	12/10/2012
	Sparks, Maryland 21152	**Job Number:**	12122776	**Person Submitting:**	Josh Julius
		P.O. Number:	Not Provided		

Attention: Josh Julius

Summary of Polarized Light Microscopy

AMA Sample Number	Client Sample #	Total Asbestos	Chrysotile Percent	Amosite Percent	Crocidolite Percent	Other Asbestos Percent	Mineral Wool Percent	Fiberglass Percent	Organic Percent	Synthetic Percent	Other Percent	Particulate Percent	Sample Type	Sample Color	Homogeneity	Analyst ID	Comments
13019423	8008-1	NAD	--	--	--	--	20	--	40	--	--	40	CT	Multi	Layered	PC	
13019424	8008-2	NAD	--	--	--	--	--	TR	10	--	--	90	DW	Multi	Layered	PC	
13019425	8008-3	NAD	--	--	--	--	--	--	--	--	--	100	JC	White	Homogeneous	PC	
13019426	8008-4	NAD	--	--	--	--	--	--	--	--	--	100	FT	Multi	Homogeneous	PC	
13019427	8008-5	NAD	--	--	--	--	--	--	TR	--	--	100	MS	Yellow	Homogeneous	PC	
13019428	8008-6	NAD	--	--	--	--	--	--	10	--	--	90	DW	Multi	Layered	PC	
13019429	8008-7	NAD	--	--	--	--	--	--	--	--	--	100	FT	Multi	Homogeneous	PC	
13019430	8008-8	2	2	--	--	--	--	--	TR	--	--	98	MS	Black	Homogeneous	PC	
13019431	8008-9	NAD	--	--	--	--	--	--	--	--	--	100	FT	Multi	Homogeneous	PC	
13019432	8008-10	2	2	--	--	--	--	--	TR	--	--	98	MS	Black/Yellow	Homogeneous	PC	
13019433	8008-11	NAD	--	--	--	--	35	--	25	--	--	40	CT	Multi	Layered	PC	
13019434	8008-12	NAD	--	--	--	--	--	--	10	--	--	90	DW	Multi	Layered	PC	
13019435	8008-13	NAD	--	--	--	--	--	--	2	--	--	98	DW	Gray	Homogeneous	PC	
13019436	8008-14	2	2	--	--	--	--	--	--	--	--	98	JC	Blue	Homogeneous	PC	
13019437	8008-15	NAD	--	--	--	--	--	--	TR	TR	--	100	MS	Tan	Homogeneous	PC	

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from us. Sample types, locations, and collection protocols are based upon the information provided by the persons submitting them and, unless collected by personnel of these Laboratories, we expressly disclaim any knowledge and liability for the accuracy and completeness of this information. Residual sample material will be discarded in accordance with the appropriate regulatory guidelines, unless otherwise requested by the client. NVLAP accreditation applies only to polarized light microscopy of bulk samples and transmission electron microscopy of AHERA air samples. This report must not be used to claim, and does not imply product certification, approval, or endorsement by NVLAP or any agency of the Federal Government. All rights reserved. AMA Analytical Services, Inc.

NVLAP (101143-0) Accredited Laboratory

4475 Forbes Blvd. · Lanham, MD, 20706 · (301) 459-2640 · Toll Free (800) 346-0961 · Fax (301) 459-2643

AMA Analytical Services, Inc.

A Specialized Environmental Laboratory

CERTIFICATE OF ANALYSIS

NVLAP 101143-0

Client:	KCI Technologies, Inc.	**Job Name:**	Building 8008	**Chain Of Custody:**	222350
Address:	936 Ridgebrook Road	**Job Location:**	St. Inigoes	**Date Analyzed:**	12/10/2012
	Sparks, Maryland 21152	**Job Number:**	12122776	**Person Submitting:**	Josh Julius
		P.O. Number:	Not Provided		

Attention: Josh Julius

Summary of Polarized Light Microscopy

AMA Sample Number	Client Sample #	Total Asbestos	Chrysotile Percent	Amosite Percent	Crocidolite Percent	Other Asbestos Percent	Mineral Wool Percent	Fiberglass Percent	Organic Percent	Synthetic Percent	Other Percent	Particulate Percent	Sample Type	Sample Color	Homogeneity	Analyst ID	Comments
13019438	8008-16	NAD	--	--	--	--	--	--	--	--	--	100	FT	Multi	Homogeneous	PC	
13019439	8008-17	2	2	--	--	--	--	--	TR	--	--	98	MS	Black	Homogeneous	PC	
13019440	8008-18	NAD	--	--	--	--	--	--	--	--	--	100	FT	Multi	Layered	PC	
13019441	8008-19	TR [1]	TR	--	--	--	--	--	TR	TR	--	100	MS	Multi	Homogeneous	PC	
13019442	8008-20	NAD	--	--	--	--	--	--	--	--	--	100	CB	Green	Homogeneous	PC	
13019443	8008-21	NAD	--	--	--	--	--	--	--	--	--	100	MS	Beige	Homogeneous	PC	
13019444	8008-22	NAD	--	--	--	--	--	--	--	--	--	100	FT	Multi	Homogeneous	PC	
13019445	8008-23	NAD	--	--	--	--	--	--	TR	--	--	100	MS	Yellow	Homogeneous	PC	
13019446	8008-24	NAD	--	--	--	--	--	--	--	--	--	100	LC	White	Homogeneous	PC	
13019447	8008-25	15	15	--	--	--	--	--	--	--	--	85	Transite	Gray	Homogeneous	PC	
13019448	8008-26	NAD	--	--	--	--	--	--	30	--	--	70	Felt	Black	Homogeneous	PC	
13019449	8008-27	15	15	--	--	--	--	--	--	--	--	85	Transite	Gray	Homogeneous	PC	
13019450	8008-28	NAD	--	--	--	--	--	--	TR	TR	--	100	MS	Tan	Homogeneous	PC	
13019451	8008-29	2	2	--	--	--	--	--	--	--	--	98	FT	Pink	Homogeneous	PC	
13019452	8008-30	3	3	--	--	--	--	--	TR	--	--	97	MS	Black	Homogeneous	PC	

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from us. Sample types, locations, and collection protocols are based upon the information provided by the persons submitting them and, unless collected by personnel of these Laboratories, we expressly disclaim any knowledge and liability for the accuracy and completeness of this information. Residual sample material will be discarded in accordance with the appropriate regulatory guidelines, unless otherwise requested by the client. NVLAP accreditation applies only to polarized light microscopy of bulk samples and transmission electron microscopy of AHERA air samples. This report must not be used to claim, and does not imply product certification, approval, or endorsement by NVLAP or any agency of the Federal Government. All rights reserved. AMA Analytical Services, Inc.

NVLAP (101143-0) Accredited Laboratory

4475 Forbes Blvd. · Lanham, MD, 20706 · (301) 459-2640 · Toll Free (800) 346-0961 · Fax (301) 459-2643

AMA Analytical Services, Inc.

A Specialized Environmental Laboratory

CERTIFICATE OF ANALYSIS

NVLAP 101143-0

Client:	KCI Technologies, Inc.	**Job Name:**	Building 8008	**Chain Of Custody:**	222350
Address:	936 Ridgebrook Road	**Job Location:**	St. Inigoes	**Date Analyzed:**	12/10/2012
	Sparks, Maryland 21152	**Job Number:**	12122776	**Person Submitting:**	Josh Julius
		P.O. Number:	Not Provided		

Attention: Josh Julius

Summary of Polarized Light Microscopy

AMA Sample Number	Client Sample #	Total Asbestos	Chrysotile Percent	Amosite Percent	Crocidolite Percent	Other Asbestos Percent	Mineral Wool Percent	Fiberglass Percent	Organic Percent	Synthetic Percent	Other Percent	Particulate Percent	Sample Type	Sample Color	Homogeneity	Analyst ID	Comments
13019453	8008-31	NAD	--	--	--	--	20	--	40	--	--	40	CT	Multi	Layered	PC	
13019454	8008-32	NAD	--	--	--	--	--	--	--	--	--	100	CB	Gray	Homogeneous	PC	
13019455	8008-33	NAD	--	--	--	--	--	--	--	--	--	100	MS	Beige	Homogeneous	PC	
13019456	8008-34	NAD	--	--	--	--	--	--	--	--	--	100	FT	Multi	Homogeneous	PC	
13019457	8008-35	NAD	--	--	--	--	--	--	--	--	--	100	FT	Multi	Homogeneous	PC	
13019458	8008-36	NAD	--	--	--	--	--	--	TR	--	--	100	MS	Yellow	Homogeneous	PC	
13019459	8008-37	NAD	--	--	--	--	--	--	2	--	--	98	FT	Off-White	Homogeneous	PC	
13019460	8008-38	2	2	--	--	--	--	--	--	--	3	95	MS	Black	Homogeneous	PC	
13019461	8008-39	NAD	--	--	--	--	--	--	--	--	--	100	CB	Brown	Homogeneous	PC	
13019462	8008-40	NAD	--	--	--	--	--	--	--	--	--	100	MS	Brown	Homogeneous	PC	
13019463	8008-41	NAD	--	--	--	--	--	--	2	--	--	98	FT	Multi	Homogeneous	PC	
13019464	8008-42	2	2	--	--	--	--	--	TR	--	--	98	MS	Tan	Homogeneous	PC	
13019465	8008-43	NAD	--	--	--	--	30	--	30	--	--	40	CT	Multi	Layered	PC	
13019466	8008-44	NAD	--	--	--	--	--	--	--	--	--	100	FT	Gray	Homogeneous	PC	
13019467	8008-45	NAD	--	--	--	--	--	--	TR	--	--	100	MS	Yellow	Homogeneous	PC	

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from us. Sample types, locations, and collection protocols are based upon the information provided by the persons submitting them and, unless collected by personnel of these Laboratories, we expressly disclaim any knowledge and liability for the accuracy and completeness of this information. Residual sample material will be discarded in accordance with the appropriate regulatory guidelines, unless otherwise requested by the client. NVLAP accreditation applies only to polarized light microscopy of bulk samples and transmission electron microscopy of AHERA air samples. This report must not be used to claim, and does not imply product certification, approval, or endorsement by NVLAP or any agency of the Federal Government. All rights reserved. AMA Analytical Services, Inc.

NVLAP (101143-0) Accredited Laboratory

4475 Forbes Blvd. · Lanham, MD, 20706 · (301) 459-2640 · Toll Free (800) 346-0961 · Fax (301) 459-2643

AMA Analytical Services, Inc.

A Specialized Environmental Laboratory

CERTIFICATE OF ANALYSIS

NVLAP 101143-0

Client:	KCI Technologies, Inc.	**Job Name:**	Building 8008	**Chain Of Custody:**	222350
Address:	936 Ridgebrook Road	**Job Location:**	St. Inigoes	**Date Analyzed:**	12/10/2012
	Sparks, Maryland 21152	**Job Number:**	12122776	**Person Submitting:**	Josh Julius
		P.O. Number:	Not Provided		

Attention: Josh Julius

Summary of Polarized Light Microscopy

AMA Sample Number	Client Sample #	Total Asbestos	Chrysotile Percent	Amosite Percent	Crocidolite Percent	Other Asbestos Percent	Mineral Wool Percent	Fiberglass Percent	Organic Percent	Synthetic Percent	Other Percent	Particulate Percent	Sample Type	Sample Color	Homogeneity	Analyst ID	Comments
13019468	8008-46	5	5	--	--	--	--	--	--	--	--	95	FT	Gray	Homogeneous	PC	
13019469	8008-47	3	3	--	--	--	--	--	TR	--	--	97	MS	Black	Homogeneous	PC	
13019470	8008-48	20	20	--	--	--	--	--	40	--	--	40	PIW	Multi	Layered	PC	
13019471	8008-49	NAD	--	--	--	--	--	--	75	--	--	25	PI	Brown	Layered	PC	
13019472	8008-50	10	10	--	--	--	--	--	40	--	--	50	PIW	Multi	Layered	PC	
13019473	8008-51	TR	TR	--	--	--	--	--	75	--	--	25	PI	Brown	Layered	PC	
13019474	8008-52	20	10	10	--	--	--	--	--	--	--	80	PI	White	Homogeneous	PC	
13019475	8008-53	60	60	--	--	--	--	--	--	--	--	40	Fitting	Gray	Homogeneous	PC	
13019476	8008-54	20	20	--	--	--	--	--	30	--	--	50	PIW	Multi	Layered	PC	
13019477	8008-55	2	2	--	--	--	--	--	75	--	--	23	PI	Brown	Layered	PC	
13019478	8008-56	30	20	10	--	--	--	--	--	--	--	70	PI	White	Homogeneous	PC	
13019479	8008-57	60	60	--	--	--	--	--	--	--	--	40	Fitting	Gray	Homogeneous	PC	
13019480	8008-58	60	60	--	--	--	--	--	--	--	--	40	Fitting	Gray	Homogeneous	PC	
13019481	8008-59	30	10	20	--	--	--	--	--	--	--	70	PI	White	Homogeneous	PC	
13019482	8008-60	NAD	--	--	--	--	--	--	--	--	--	100	SSL	Gray	Homogeneous	PC	

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from us. Sample types, locations, and collection protocols are based upon the information provided by the persons submitting them and, unless collected by personnel of these Laboratories, we expressly disclaim any knowledge and liability for the accuracy and completeness of this information. Residual sample material will be discarded in accordance with the appropriate regulatory guidelines, unless otherwise requested by the client. NVLAP accreditation applies only to polarized light microscopy of bulk samples and transmission electron microscopy of AHERA air samples. This report must not be used to claim, and does not imply product certification, approval, or endorsement by NVLAP or any agency of the Federal Government. All rights reserved. AMA Analytical Services, Inc.

NVLAP (101143-0) Accredited Laboratory

4475 Forbes Blvd. · Lanham, MD, 20706 · (301) 459-2640 · Toll Free (800) 346-0961 · Fax (301) 459-2643

AMA Analytical Services, Inc.

A Specialized Environmental Laboratory

CERTIFICATE OF ANALYSIS

NVLAP 101143-0

Client:	KCI Technologies, Inc.	**Job Name:**	Building 8008	**Chain Of Custody:**	222350
Address:	936 Ridgebrook Road	**Job Location:**	St. Inigoes	**Date Analyzed:**	12/10/2012
	Sparks, Maryland 21152	**Job Number:**	12122776	**Person Submitting:**	Josh Julius
		P.O. Number:	Not Provided		

Attention: Josh Julius

Summary of Polarized Light Microscopy

AMA Sample Number	Client Sample #	Total Asbestos	Chrysotile Percent	Amosite Percent	Crocidolite Percent	Other Asbestos Percent	Mineral Wool Percent	Fiberglass Percent	Organic Percent	Synthetic Percent	Other Percent	Particulate Percent	Sample Type	Sample Color	Homogeneity	Analyst ID	Comments
13019483	8008-61	15	15	--	--	--	--	--	--	--	--	85	Transite	Gray	Homogeneous	PC	
13019484	8008-62	NAD	--	--	--	--	3	--	--	--	2	95	SSL	Off-White	Homogeneous	PC	
13019485	8008-63	NAD	--	--	--	--	--	--	--	--	--	100	GK	Red	Homogeneous	PC	
13019486	8008-64	NAD	--	--	--	--	--	--	--	--	--	100	Mortar	Gray	Homogeneous	PC	
13019487	8008-65	NAD	--	--	--	--	--	--	--	--	--	100	Mortar	Gray	Homogeneous	PC	
13019488	8008-66	NAD	--	--	--	--	--	--	--	--	--	100	Brick	Brown	Homogeneous	PC	
13019489	8008-67	NAD	--	--	--	--	--	--	40	--	--	60	Felt	Black	Homogeneous	PC	
13019490	8008-68	NAD	--	--	--	--	--	--	--	--	--	100	CB	Tan	Homogeneous	PC	
13019491	8008-69	NAD	--	--	--	--	--	--	--	--	--	100	FT	Lt. Brown	Homogeneous	PC	
13019492	8008-70	NAD	--	--	--	--	--	--	TR	--	--	100	MS	Yellow	Homogeneous	PC	
13019493	8008-71	NAD	--	--	--	--	--	--	--	--	--	100	FT	Multi	Homogeneous	PC	
13019494	8008-72	NAD	--	--	--	--	--	--	TR	--	--	100	MS	Yellow	Homogeneous	PC	
13019495	8008-73	NAD	--	--	--	--	--	--	--	--	--	100	FT	Multi	Homogeneous	PC	
13019496	8008-74	NAD	--	--	--	--	--	--	TR	--	--	100	MS	Yellow	Homogeneous	PC	
13019497	8008-75	NAD	--	--	--	--	--	--	--	--	--	100	FT	Gray	Homogeneous	PC	

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from us. Sample types, locations, and collection protocols are based upon the information provided by the persons submitting them and, unless collected by personnel of these Laboratories, we expressly disclaim any knowledge and liability for the accuracy and completeness of this information. Residual sample material will be discarded in accordance with the appropriate regulatory guidelines, unless otherwise requested by the client. NVLAP accreditation applies only to polarized light microscopy of bulk samples and transmission electron microscopy of AHERA air samples. This report must not be used to claim, and does not imply product certification, approval, or endorsement by NVLAP or any agency of the Federal Government. All rights reserved. AMA Analytical Services, Inc.

NVLAP (101143-0) Accredited Laboratory

4475 Forbes Blvd. · Lanham, MD, 20706 · (301) 459-2640 · Toll Free (800) 346-0961 · Fax (301) 459-2643

AMA Analytical Services, Inc.

A Specialized Environmental Laboratory

CERTIFICATE OF ANALYSIS

NVLAP 101143-0

Client:	KCI Technologies, Inc.	**Job Name:**	Building 8008	**Chain Of Custody:**	222350
Address:	936 Ridgebrook Road	**Job Location:**	St. Inigoes	**Date Analyzed:**	12/10/2012
	Sparks, Maryland 21152	**Job Number:**	12122776	**Person Submitting:**	Josh Julius
		P.O. Number:	Not Provided		

Attention: Josh Julius

Summary of Polarized Light Microscopy

AMA Sample Number	Client Sample #	Total Asbestos	Chrysotile Percent	Amosite Percent	Crocidolite Percent	Other Asbestos Percent	Mineral Wool Percent	Fiberglass Percent	Organic Percent	Synthetic Percent	Other Percent	Particulate Percent	Sample Type	Sample Color	Homogeneity	Analyst ID	Comments
13019498	8008-76	NAD	--	--	--	--	--	--	TR	--	--	100	MS	Yellow	Homogeneous	PC	
13019499	8008-77	25	--	25	--	--	--	--	--	--	--	75	Fitting	White	Homogeneous	PC	
13019500	8008-78	15	15	--	--	--	--	--	--	--	--	85	Cement B.	Gray	Homogeneous	PC	
13019501	8008-79	NAD	--	--	--	--	--	--	--	--	--	100	FT	Gray	Homogeneous	PC	
13019502	8008-80	NAD	--	--	--	--	--	--	TR	--	--	100	MS	Yellow	Homogeneous	PC	
13019503	8008-81	NAD	--	--	--	--	--	--	10	--	--	90	DW	Multi	Layered	PC	
13019504	8008-82	2	2	--	--	--	--	--	--	--	--	98	JC	Off-White	Homogeneous	PC	
13019505	8008-83	NAD	--	--	--	--	--	--	--	--	--	100	FT	Multi	Homogeneous	PC	
13019506	8008-84	NAD	--	--	--	--	--	--	5	--	--	95	MS	Yellow	Homogeneous	PC	

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from us. Sample types, locations, and collection protocols are based upon the information provided by the persons submitting them and, unless collected by personnel of these Laboratories, we expressly disclaim any knowledge and liability for the accuracy and completeness of this information. Residual sample material will be discarded in accordance with the appropriate regulatory guidelines, unless otherwise requested by the client. NVLAP accreditation applies only to polarized light microscopy of bulk samples and transmission electron microscopy of AHERA air samples. This report must not be used to claim, and does not imply product certification, approval, or endorsement by NVLAP or any agency of the Federal Government. All rights reserved. AMA Analytical Services, Inc.

NVLAP (101143-0) Accredited Laboratory

4475 Forbes Blvd. · Lanham, MD, 20706 · (301) 459-2640 · Toll Free (800) 346-0961 · Fax (301) 459-2643

AMA Analytical Services, Inc.

A Specialized Environmental Laboratory

CERTIFICATE OF ANALYSIS

NVLAP®
101143-0

Client:	KCI Technologies, Inc.	**Job Name:**	Building 8008	**Chain Of Custody:**	222327
Address:	936 Ridgebrook Road	**Job Location:**	St. Inigoes	**Date Analyzed:**	12/31/2012
	Sparks, Maryland 21152	**Job Number:**	12122776	**Person Submitting:**	Josh Julius
		P.O. Number:	Not Provided		

Attention: Josh Julius

Summary of Polarized Light Microscopy

AMA Sample Number	Client Sample #	Total Asbestos	Chrysotile Percent	Amosite Percent	Crocidolite Percent	Other Asbestos Percent	Mineral Wool Percent	Fiberglass Percent	Organic Percent	Synthetic Percent	Other Percent	Particulate Percent	Sample Type	Sample Color	Homogeneity	Analyst ID	Comments
13025500	8008-85	NAD	--	--	--	--	--	TR	TR	--	--	100	JC	White	Homogeneous	SW	
13025501	8008-86	NAD	--	--	--	--	--	--	--	--	--	100	JC	White	Homogeneous	SW	
13025502	8008-87	NAD	--	--	--	--	--	--	--	--	--	100	JC	White	Homogeneous	SW	
13025503	8008-88	NAD	--	--	--	--	--	--	--	--	--	100	JC	White	Homogeneous	SW	
13025504	8008-89	NAD	--	--	--	--	--	--	--	--	--	100	JC	White	Homogeneous	SW	
13025505	8008-90	NAD	--	--	--	--	--	--	--	--	--	100	JC	White	Homogeneous	SW	
13025506	8008-91	NAD	--	--	--	--	--	--	--	--	--	100	JC	White	Homogeneous	SW	
13025507	8008-92	NAD	--	--	--	--	--	--	--	--	--	100	JC	White	Homogeneous	SW	
13025508	8008-93	NAD	--	--	--	--	--	--	--	--	--	100	JC	White	Homogeneous	SW	
13025509	8008-94	NAD	--	--	--	--	--	--	--	--	--	100	JC	White	Homogeneous	SW	
13025510	8008-95	NAD	--	--	--	--	--	--	--	--	--	100	JC	White	Homogeneous	SW	

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from us. Sample types, locations, and collection protocols are based upon the information provided by the persons submitting them and, unless collected by personnel of these Laboratories, we expressly disclaim any knowledge and liability for the accuracy and completeness of this information. Residual sample material will be discarded in accordance with the appropriate regulatory guidelines, unless otherwise requested by the client. NVLAP accreditation applies only to polarized light microscopy of bulk samples and transmission electron microscopy of AHERA air samples. This report must not be used to claim, and does not imply product certification, approval, or endorsement by NVLAP or any agency of the Federal Government. All rights reserved. AMA Analytical Services, Inc.

NVLAP (101143-0) Accredited Laboratory

4475 Forbes Blvd. · Lanham, MD, 20706 · (301) 459-2640 · Toll Free (800) 346-0961 · Fax (301) 459-2643

AMA Analytical Services, Inc.

A Specialized Environmental Laboratory

CERTIFICATE OF ANALYSIS

NY ELAP
10920

Client:	KCI Technologies, Inc.	**Job Name:**	Re-Analysis by TEM from COC 222350	**Chain of Custody:**	231847
Address:	936 Ridgebrook Road	**Job Location:**	Building 8808; St. Inigoes	**Date Analyzed:**	12/28/2012
	Sparks, Maryland 21152	**Job Number:**	12122776	**Person Submitting:**	Josh Julius
		P.O. Number:	Not Provided		
Attention:	Josh Julius				

Summary of Asbestos Analysis of Non-Friable Organically Bound (NOB) Bulk Samples

AMA Sample Number	Client Sample #	Sample Type *	% Total Asbestos **	% Asbestos by PLM ***	% Asbestos by TEM ***	Type(s) of Asbestos	% Organics	% Acid Soluble	% Other	Material Type	Sample Color	Comments
13024967	8008-19 (13019441)	Whole	TR	N/A	TR	Chrysotile	56.4%	N/A	43.6%	MS	Multi	

* Whole = Whole sample submitted and gravimetric reduction performed by AMA Analytical Services Residue = Gravimetric reduction of sample performed by client and residue only submitted for analysis.

** NAD = "No Asbestos Detected" TR = "Trace equals less than 1% of this component"

*** PLM = Polarized Light Microscopy after gravimetric reduction (NY ELAP Method 198.6) TEM = Transmission Electron Microscopy after gravimetric reduction (NY ELAP Method 198.4)

All results are to be considered preliminary and subject to change unless signed by the Technical Director or Deputy.

Technical Director G Edward Carney **Analyst(s)** Michael Creaghan

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from us. Sample types, locations, and collection protocols are based upon the information provided by the persons submitting them and, unless collected by personnel of these Laboratories, we expressly disclaim any knowledge and liability for the accuracy and completeness of this information. Residual sample material will be discarded in accordance with the appropriate regulatory guidelines, unless otherwise requested by the client. This report must not be used to claim, and does not imply product certification, approval, or endorsement by NY ELAP or any agency of the Federal Government. All rights reserved. AMA Analytical Services, Inc.

NY ELAP (#10920) Accredited Laboratory

4475 Forbes Blvd. · Lanham, MD, 20706 · (301) 459-2640 · Toll Free (800) 346-0961 · Fax (301) 459-2643

AMA Analytical Services, Inc.

A Specialized Environmental Laboratory

CERTIFICATE OF ANALYSIS

NVLAP 101143-0

Client:	KCI Technologies, Inc.	**Job Name:**	Building 8008	**Chain Of Custody:**	222327
Address:	936 Ridgebrook Road	**Job Location:**	St. Inigoes	**Date Analyzed:**	12/31/2012
	Sparks, Maryland 21152	**Job Number:**	12122776	**Person Submitting:**	Josh Julius
		P.O. Number:	Not Provided		

Attention: Josh Julius

Summary of Polarized Light Microscopy

AMA Sample Number	Client Sample #	Total Asbestos	Chrysotile Percent	Amosite Percent	Crocidolite Percent	Other Asbestos Percent	Mineral Wool Percent	Fiberglass Percent	Organic Percent	Synthetic Percent	Other Percent	Particulate Percent	Sample Type	Sample Color	Homogeneity	Analyst ID	Comments

The following footnotes only apply to those samples which the total asbestos result is flagged with a note number.

1 TEM RECOMMENDATION - Please note, due to resolution limitations with optical microscopy and/or interference from matrix components of this sample, results which are reported via PLM as negative or trace (<1%) for asbestos may contain a significant quantity of asbestos. It is recommended that the additional analytical technique of TEM be used to check for asbestos fibers below the resolution limits of optical microscopy.

2 MATRIX REDUCTION RECOMMENDATION - Please note, due to interference from the matrix components of this sample, results which are reported via PLM as negative or trace (<1%) for asbestos may contain a significant quantity of asbestos which is obscured from view. It is recommended that the additional preparation technique of gravimetric reduction be performed on this sample to minimize the obscuring effects of matrix components, followed by reanalysis by PLM and/or TEM.

Analysis Method - EPA/600/R-93/116 dated July 1993

NAD = "No Asbestos Detected" TR = "Trace equals less than 1% of this component"

Uncertainty: For samples containing asbestos in range of 1-10% the CV is 0.43, 11-35% CV=0.55, >35 CV=0.23

All results are to be considered preliminary and subject to change unless signed by the Technical Director or Deputy.

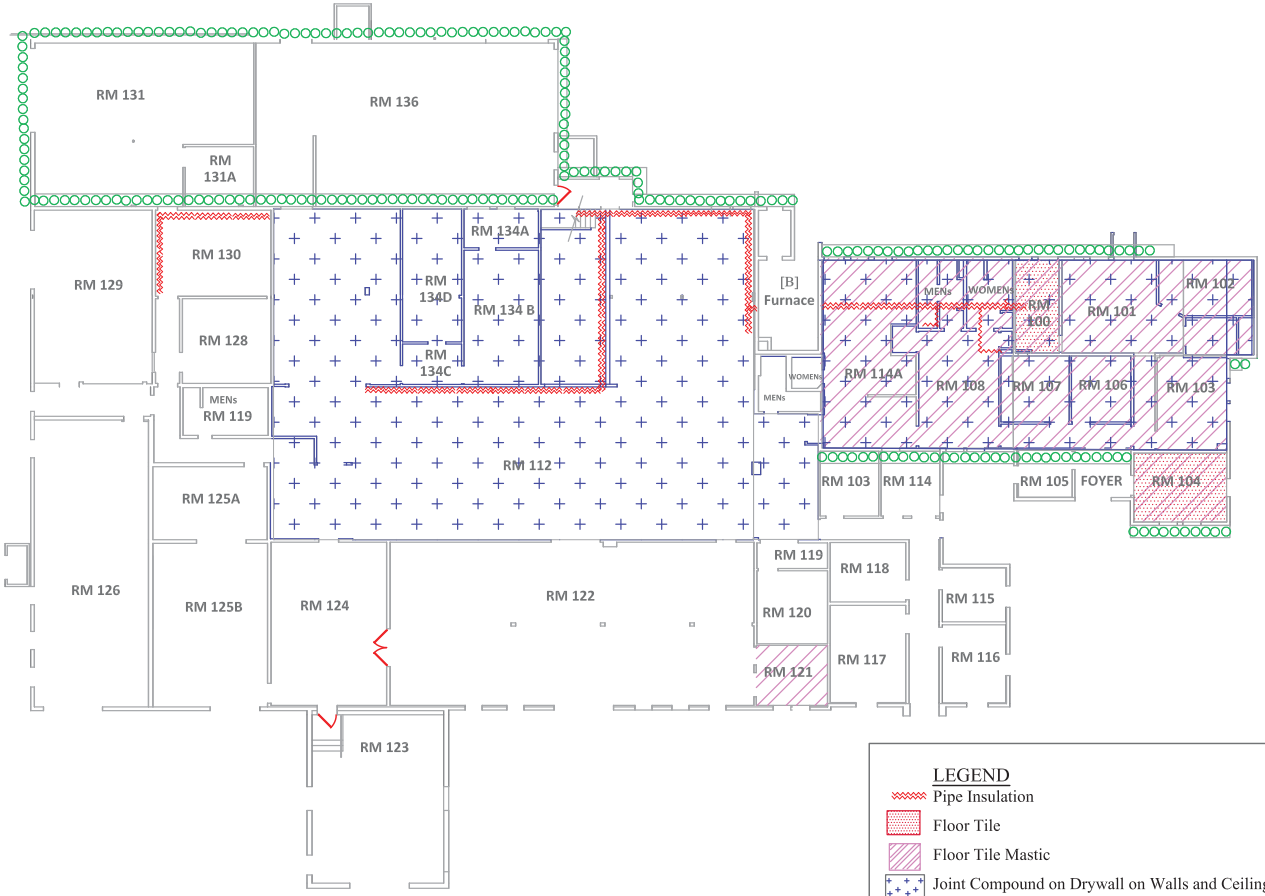
Technical Director Peerawut Chaikeenee **Analyst(s)** Surat Watson

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from us. Sample types, locations, and collection protocols are based upon the information provided by the persons submitting them and, unless collected by personnel of these Laboratories, we expressly disclaim any knowledge and liability for the accuracy and completeness of this information. Residual sample material will be discarded in accordance with the appropriate regulatory guidelines, unless otherwise requested by the client. NVLAP accreditation applies only to polarized light microscopy of bulk samples and transmission electron microscopy of AHERA air samples. This report must not be used to claim, and does not imply product certification, approval, or endorsement by NVLAP or any agency of the Federal Government. All rights reserved. AMA Analytical Services, Inc.

NVLAP (101143-0) Accredited Laboratory

4475 Forbes Blvd. · Lanham, MD, 20706 · (301) 459-2640 · Toll Free (800) 346-0961 · Fax (301) 459-2643

APPENDIX A:
FLOOR PLANS



FIRST FLOOR

LEGEND

- Pipe Insulation
- Floor Tile
- Floor Tile Mastic
- Joint Compound on Drywall on Walls and Ceiling
- Transite Siding/Board on Ceiling and Soffit*
- Fire Doors
- [B] Boiler

*Refer to Drawing HAZ2 for location of Transite Siding on walls

NOTE:

- ABATE ALL ASBESTOS CONTAINING MATERIALS PRIOR TO ANY DISTURBANCE.
- REFER TO HAZARDOUS MATERIALS SURVEY REPORT DATED JANUARY 15, 2013 PREPARED BY KCI FOR DETAILS ON LOCATION AND ESTIMATED QUANTITY.
- ROOFING IS ASSUMED TO CONTAIN ASBESTOS (not shown on drawing)

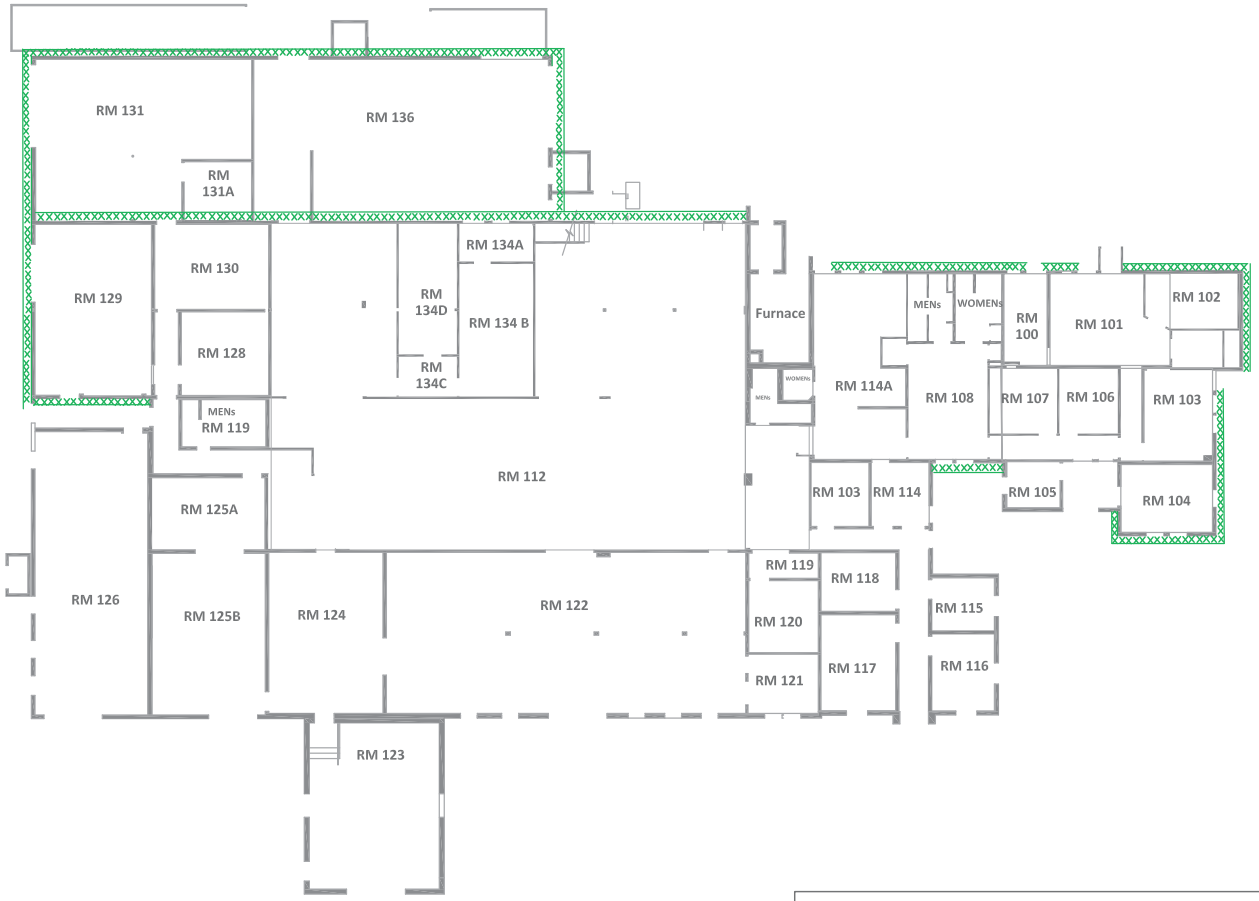
KCI TECHNOLOGIES
ENGINEERS PLANNERS SCIENTISTS CONSTRUCTION MANAGERS
936 RIDGEBROOK ROAD
SPARKS, MARYLAND 21152
TELEPHONE: (410) 316-7800
FAX: (410) 316-7935

DATE: April 10, 2013
SCALE: Not to Scale
DRAWN BY: JJ/ TTA

FLOOR PLAN - BUILDING 8008
WEBSTER FIELD FACILITY
PATUXENT RIVER NAVAL AIR STATION
ST. INIGOES, MARYLAND

DRAWING HAZ-101
PHASE N/A

Jan 15, 2013 - 11:00am User: tehsin.aurangabadwal
\\corp.kci.com\Sparks-Projects\2012\12122776\Reports\from ebl\2012-12-17 preliminary arch backgrounds\Bldg 8008-HAZ1.dwg



FIRST FLOOR

LEGEND
Transite Siding on walls

NOTE:

- ABATE ALL ASBESTOS CONTAINING MATERIALS PRIOR TO ANY DISTURBANCE.
- REFER TO HAZARDOUS MATERIALS SURVEY REPORT DATED JANUARY 15, 2013 PREPARED BY KCI FOR DETAILS ON LOCATION AND ESTIMATED QUANTITY.
- ROOFING IS ASSUMED TO CONTAIN ASBESTOS (not shown on drawing)

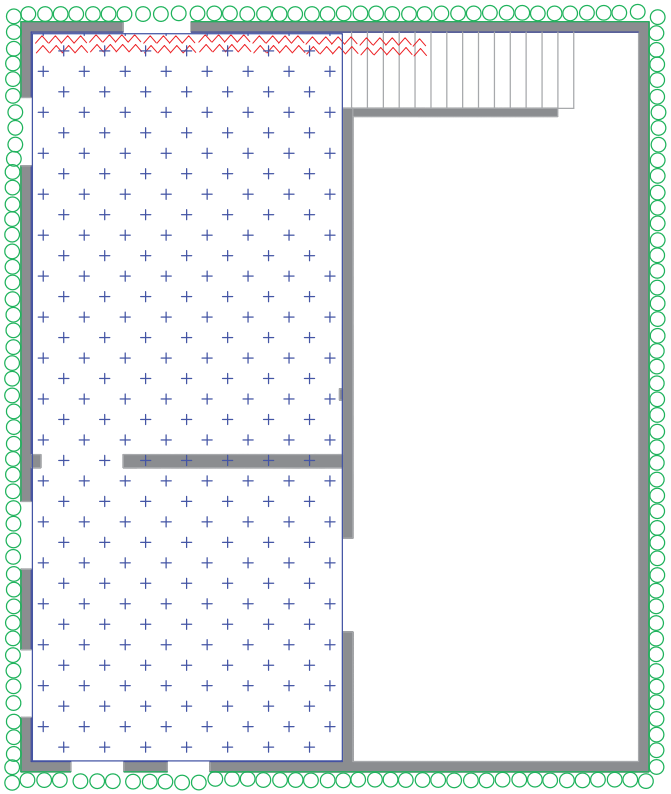
KCI TECHNOLOGIES
ENGINEERS PLANNERS SCIENTISTS CONSTRUCTION MANAGERS
936 RIDGEBROOK ROAD
SPARKS, MARYLAND 21152
TELEPHONE: (410) 316-7800
FAX: (410) 316-7935

DATE: April 10, 2013
SCALE: Not to Scale
DRAWN BY: JJ/ TTA

FLOOR PLAN - BUILDING 8008
WEBSTER FIELD FACILITY
PATUXENT RIVER NAVAL AIR STATION
ST. INIGOES, MARYLAND

DRAWING HAZ-102
PHASE N/A

Jan 15, 2013 - 11:29am User: tehsin.aurangabadwal
\\corp.kci.com\Sparks-Projects\2012\1212776\Reports\from ebf\2012-12-17 preliminary arch backgrounds\Bldg 8008-HAZ2.dwg



SECOND FLOOR

LEGEND
Pipe Insulation
Joint Compound on Drywall on Walls and Ceiling
Transite Siding/Board on Exterior Soffit and Walls

NOTE:

- ABATE ALL ASBESTOS CONTAINING MATERIALS PRIOR TO ANY DISTURBANCE.
- REFER TO HAZARDOUS MATERIALS SURVEY REPORT DATED JANUARY 15, 2013 PREPARED BY KCI FOR DETAILS ON LOCATION AND ESTIMATED QUANTITY.
- ROOFING IS ASSUMED TO CONTAIN ASBESTOS. (not shown on drawing)

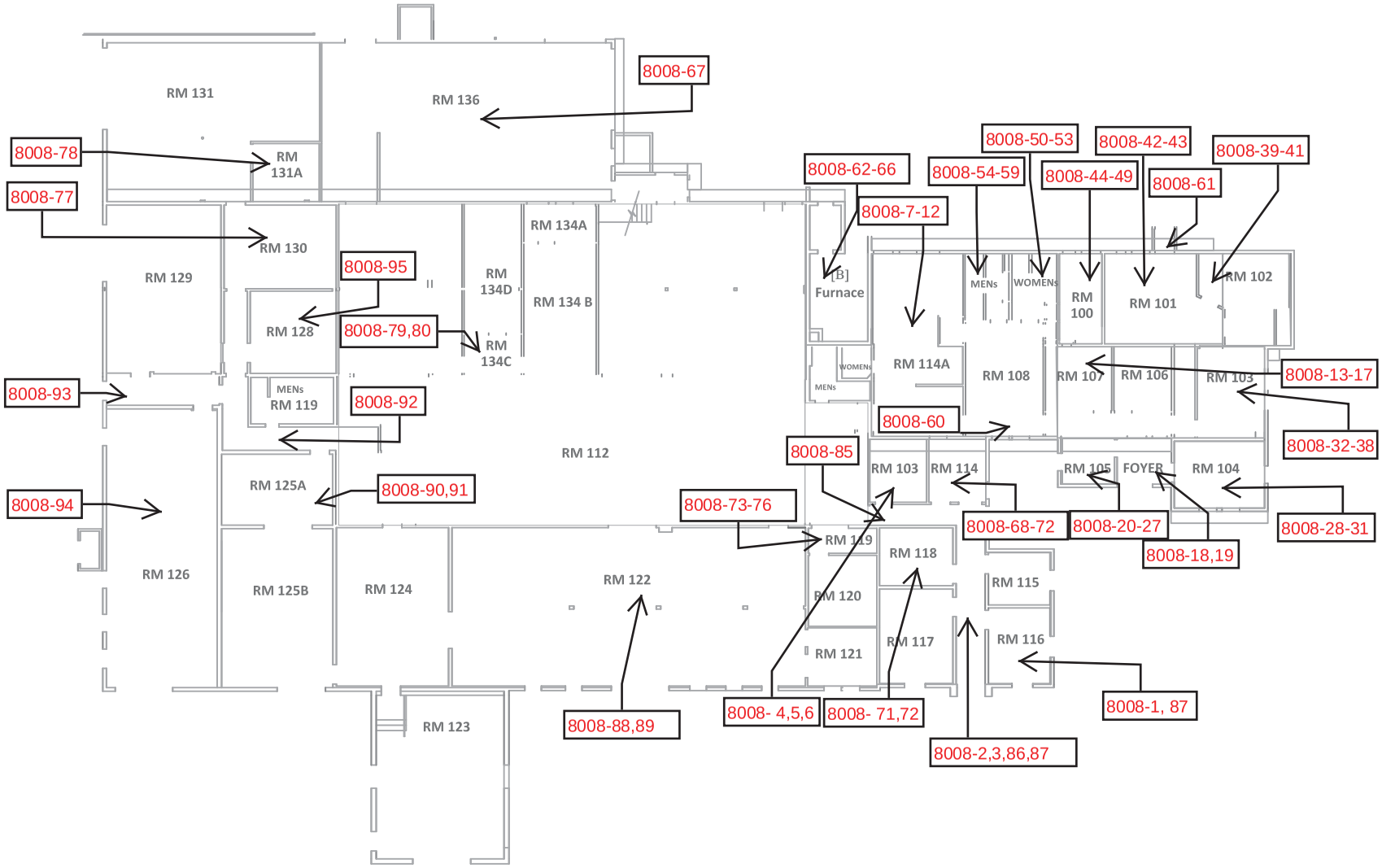
KCI TECHNOLOGIES
ENGINEERS
PLANNERS
SCIENTISTS
CONSTRUCTION MANAGERS
936 RIDGEBROOK ROAD
SPARKS, MARYLAND 21152
TELEPHONE: (410) 316-7800
FAX: (410) 316-7935

DATE: April 10, 2013
SCALE: Not to Scale
DRAWN BY: JJ/ TTA

FLOOR PLAN - BUILDING 8008
WEBSTER FIELD FACILITY
PATUXENT RIVER NAVAL AIR STATION
ST. INIGOES, MARYLAND

DRAWING HAZ-103
PHASE N/A

Jan 15, 2013 - 11:11am User: tehsin.aurangabadwal
\\corp.kci.com\Sparks-Projects\2012\1212776\Reports\from eb\2012-12-17 preliminary arch backgrounds\Bldg 8008-HAZ3.dwg



SUSPECT ACM SAMPLE LOCATIONS ON FIRST FLOOR

NOTE:

Samples 8008-81-84 were collected on second floor in Room 201

KCI TECHNOLOGIES

ENGINEERS
PLANNERS
SCIENTISTS
CONSTRUCTION MANAGERS

936 RIDGEBROOK ROAD
SPARKS, MARYLAND 21152
TELEPHONE: (410) 316-7800
FAX: (410) 316-7935

DATE: April 10, 2013

SCALE: Not to Scale

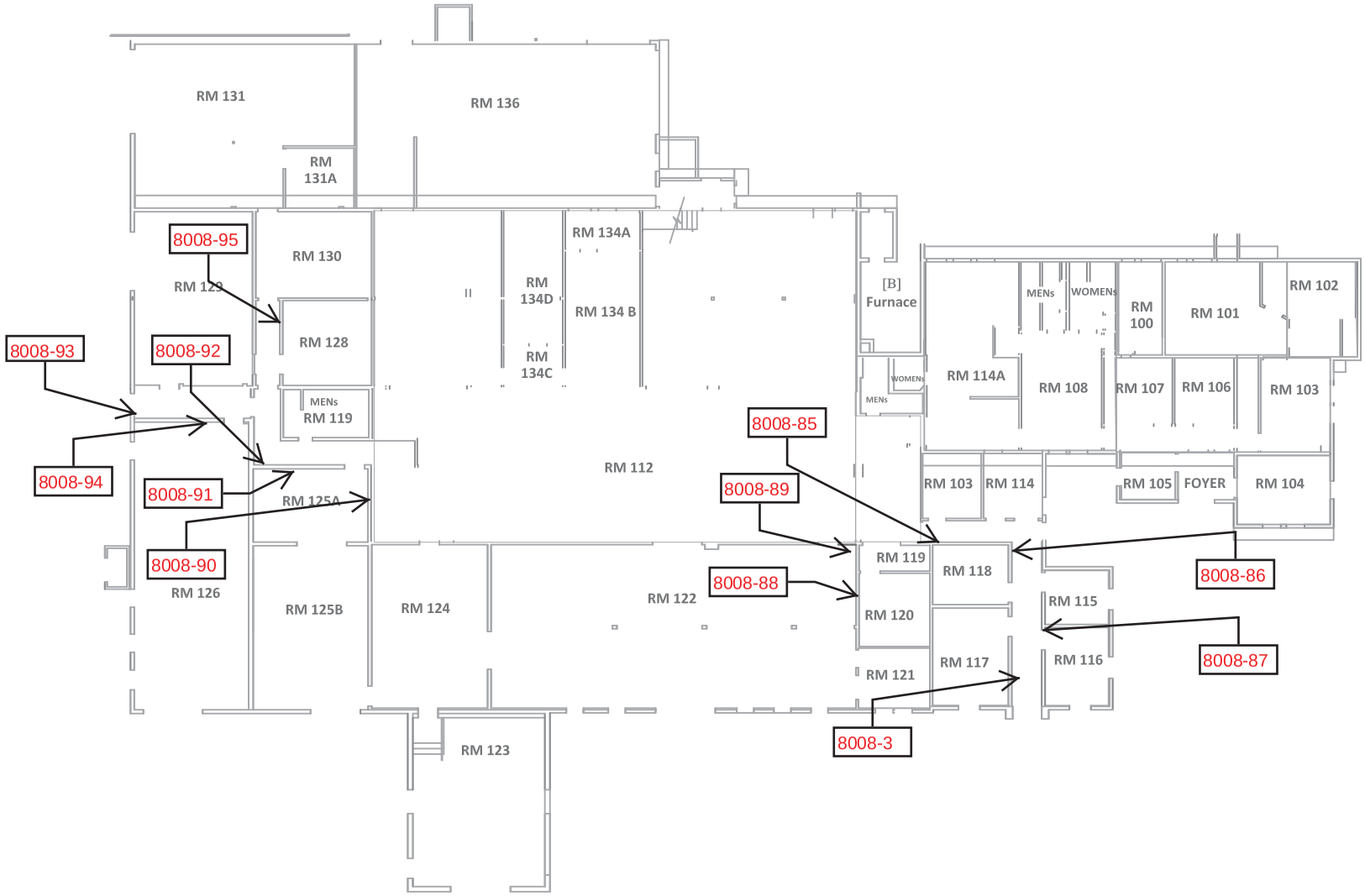
DRAWN BY: JJ/ TTA

FLOOR PLAN - BUILDING 8008
WEBSTER FIELD FACILITY
PATUXENT RIVER NAVAL AIR STATION
ST. INIGOES, MARYLAND

APPENDIX D

PHASE
N/A

Jan 28, 2013 - 2:32pm User: tehsin.aurangabadwal
\\corp.kci.com\Sparks-Projects\2012\12122776\Reports\UC Locations.dwg



SAMPLE LOCATIONS FOR NON-ASBESTOS CONTAINING JOINT COMPOUND

KCI TECHNOLOGIES
ENGINEERS
PLANNERS
SCIENTISTS
CONSTRUCTION MANAGERS
936 RIDGEBROOK ROAD
SPARKS, MARYLAND 21152
TELEPHONE: (410) 316-7800
FAX: (410) 316-7935

DATE:April 10, 2013

SCALE: Not to Scale

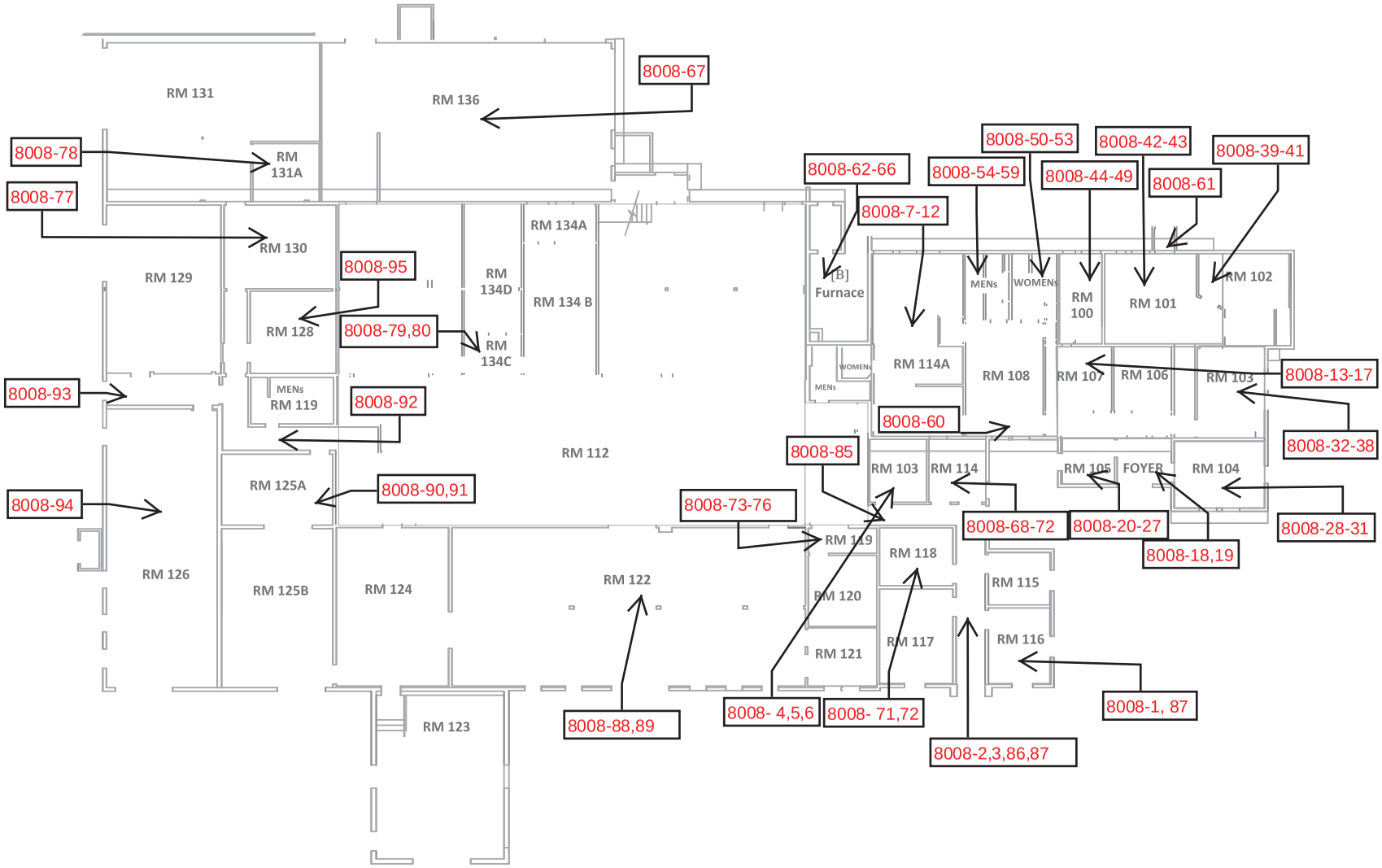
DRAWN BY: JJ/ TTA

FLOOR PLAN - BUILDING 8008
WEBSTER FIELD FACILITY
PATUXENT RIVER NAVAL AIR STATION
ST. INIGOES, MARYLAND

APPENDIX E

PHASE
N/A

Jan 28, 2013 - 2:32pm User: tehsin.aurangabadwal
\\corp.kci.com\Sparks-Projects\2012\12122776\Reports\UC Locations.dwg



SUSPECT ACM SAMPLE LOCATIONS ON FIRST FLOOR

NOTE:

Samples 8008-81-84 were collected on second floor in Room 201

KCI TECHNOLOGIES

ENGINEERS
PLANNERS
SCIENTISTS
CONSTRUCTION MANAGERS

936 RIDGEBROOK ROAD
SPARKS, MARYLAND 21152
TELEPHONE: (410) 316-7800
FAX: (410) 316-7935

DATE: April 10, 2013

SCALE: Not to Scale

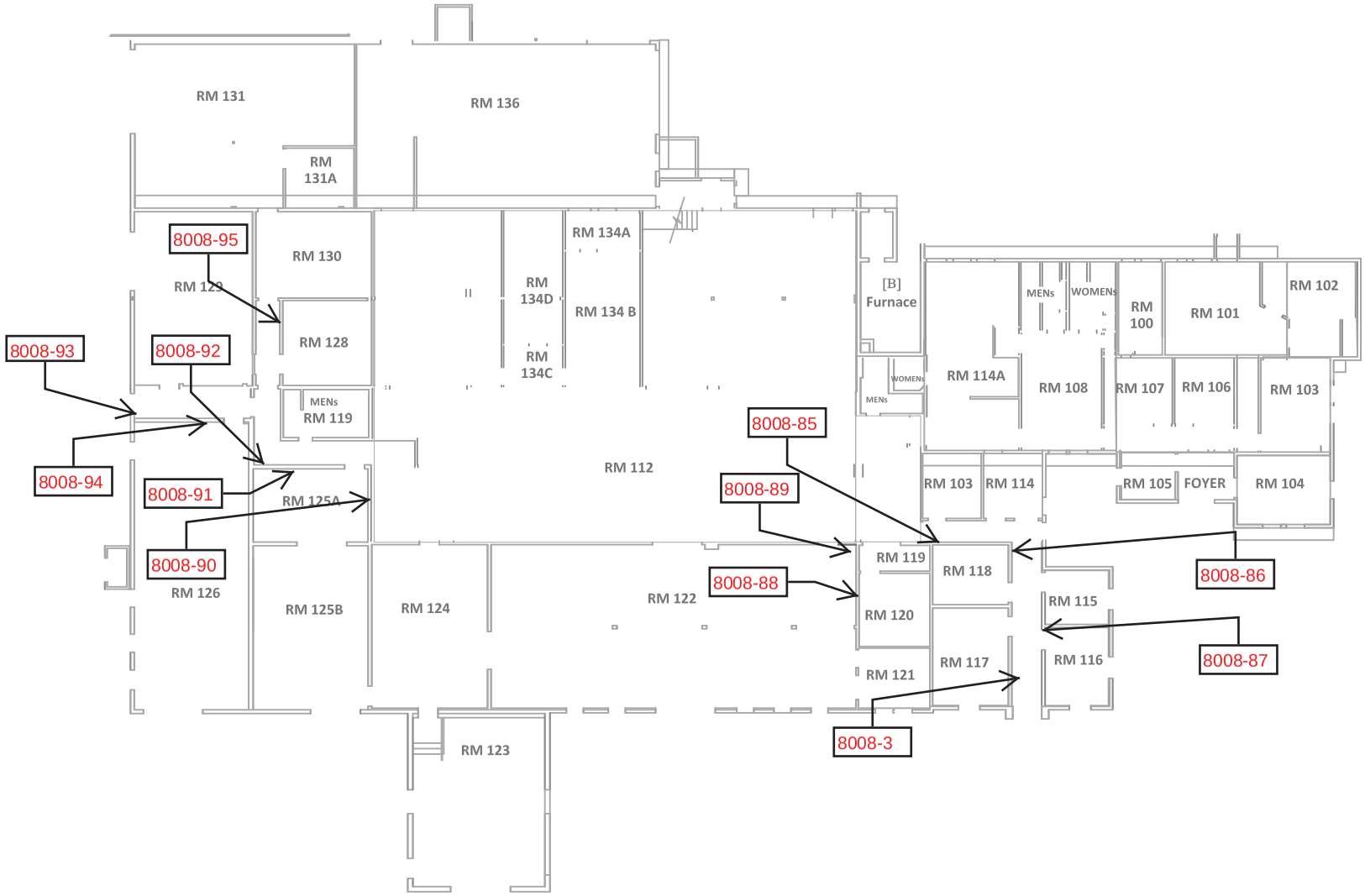
DRAWN BY: JJ/ TTA

FLOOR PLAN - BUILDING 8008
WEBSTER FIELD FACILITY
PATUXENT RIVER NAVAL AIR STATION
ST. INIGOES, MARYLAND

APPENDIX D

PHASE
N/A

Jan 28, 2013 - 2:32pm User: tehsin.aurangabadwal
\\corp.kci.com\Sparks-Projects\2012\12122776\Reports\UC Locations.dwg



SAMPLE LOCATIONS FOR NON-ASBESTOS CONTAINING JOINT COMPOUND

KCI TECHNOLOGIES
ENGINEERS
PLANNERS
SCIENTISTS
CONSTRUCTION MANAGERS
936 RIDGEBROOK ROAD
SPARKS, MARYLAND 21152
TELEPHONE: (410) 316-7800
FAX: (410) 316-7935

DATE:April 10, 2013

SCALE: Not to Scale

DRAWN BY: JJ/ TTA

FLOOR PLAN - BUILDING 8008
WEBSTER FIELD FACILITY
PATUXENT RIVER NAVAL AIR STATION
ST. INIGOES, MARYLAND

APPENDIX E

PHASE
N/A

Jan 28, 2013 - 2:32pm User: tehsin.aurangabadwal
\\corp.kci.com\Sparks-Projects\2012\12122776\Reports\UC Locations.dwg