



From the Desk of Nelson Miles

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JULY 31, 2020

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Hazardous Material Survey Report

ORION Project 020-0277

RE: Osborn Elementary School Demolition
225 Central Avenue
Leavenworth, Washington 98826

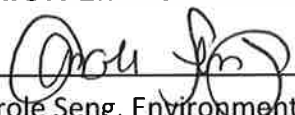
Dear Mrs Curry,


The purpose of this report is to present the results of a hazardous material survey performed on July 16 and 17, 2020 at the subject location referenced above. This survey was conducted in general accordance with the terms of the agreement between ORION Environmental and V Environmental of Idaho (owner's representative) authorizing us to perform this service. We understand that this survey was requested for future demolition of the building. State laws require hazards be identified before structures or components are impacted as part of renovation or demolition activities.

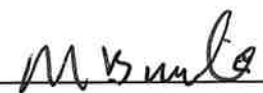
The survey was designed to identify asbestos containing materials (ACM), lead-containing paint (LCP), Polychlorinated Biphenyls (PCBS) and Mercury (Hg)-containing components. This survey was conducted by Industrial Hygienists with appropriate accreditations and experiences.

Professionally Yours,

ORION Environmental Services, Inc.


Carole Seng, Environmental Scientist
Certified AHERA Building Inspector
July 31, 2020


Nate Reynolds, IH Technician
Certified AHERA Building Inspector
July 31, 2020


Nelson Miles, Industrial Hygienist
Certified AHERA Building Inspector
Certified Lead Paint Risk Assessor
July 31, 2020



Hazardous Materials Survey Report

**Osborn Building Demolition
Cascade School District**

**225 Central Avenue
Leavenworth, Washington 98826**

**July 31, 2020
ORION Project Number 020-0277**



**Prepared for:
V Environmental**

**Prepared by
ORION Environmental Services
Federal Way, Washington**



EXECUTIVE SUMMARY

The purpose of this hazardous materials survey is to support the proposed demolition of Osborn Elementary School located at 225 Central Avenue in Leavenworth, Washington. The survey was performed on July 16 and 17, 2020. Our scope of services included collection and analysis of suspected asbestos-containing materials (ACM) and suspected lead-containing paint, and identification, by visual inspection of polychlorinated biphenyl (PCB)-containing fluorescent light ballasts (FLBs), and mercury (Hg)-containing light tubes or thermostat/switches.

Upon completion of the survey and sample analyses, the following information are our findings:

- Asbestos-containing materials (ACM) – None
- Lead-containing paint (main themes) – Cabinets in Rooms 5, 6 and 7
- PCB-containing ballasts – None
- Potential Mercury (Hg)-containing light tubes – 637
- Hg switches/thermostats – None

Inaccessible locations included a sealed utilidor that is presumed to contain asbestos pipe insulation.

This summary is intended for introductory purposes only. We recommend a thorough reading of the complete report.

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ATTACHMENTS

1. Asbestos Summary
2. Lead Paint Summary
3. PCBs and Fluorescent Fixtures Summary

1.0 INTRODUCTION

ORION Environmental Services, Inc. (OES) was hired by V Environmental of Idaho (Owner's Representative) to conduct a hazardous material survey regarding materials and components that may be impacted during demolition. The purpose of this survey is to support the proposed demolition of the building by evaluating the presence of hazardous materials at the subject location, and to provide this evaluation to V Environmental and the Cascade School District. OES' assessment was conducted on July 16 and 17, 2020 and was performed in accordance with federal, state and local regulatory requirements. The assessment was conducted by Carole Seng and Nate Reynolds of OES and their accreditations can be found as an attachment to this report.

1.1 Building Information



The John H. Osborn Elementary School is a masonry-constructed, single-story commercial building built in 1955 which approximately 25,000 square feet will be impacted during demolition of the building. The building was used as a public school by the Cascade School District and is now permanently closed. The only known renovation is the addition of the multi-purpose room which was built in 1983, along with the roof, exterior siding and mechanical equipment being updated. Interior wall systems are comprised primarily of wallboard with skim coat texture in some locations. Flooring consists of vinyl flooring and concrete. Heating is by force air HVAC with piping covered with fiberglass and hard fittings. Lighting includes incandescent and fluorescent fixtures. The roof is constructed of metal over wood.

There is a utilidor underneath the building that was inaccessible at the time of the assessment.



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1.2 Scope of Services

- a. Collection samples of suspected ACM and suspected LCP;
- b. Analysis of those samples at a laboratory selected by ORION;
- c. Identification, by visual inspection, of PCB-containing FLBs, and Hg-containing light tubes or thermostats; and
- d. Preparation of this report.

Our scope of services did not include:

- a. Disassembly of electrical panels or other machinery;
- b. Investigation of areas with access restrictions due to locked rooms (utilidor)
- c. Investigation of hazardous materials other than ACM, LCP, PCB-containing FLBs, and Hg-containing light tubes or thermostats.
- d. Investigation of non-building materials; or

Within the scope of services

- The asbestos survey was conducted in general accordance with the, "Good Faith" asbestos survey requirements in the Washington Administrative Code (WAC) 296-62-07721 (Communication of Hazards to Employees) as required by Washington State Department of Occupational Safety Health (DOSH) and regionally by the Northwest Clean Air Agency (NWCAA) for buildings or building sections that are to be renovated and/or demolished.
- The lead survey was conducted in general accordance with WAC 296-155-17605 regarding the identification of lead as it applies to all construction work where an employee may occupationally-exposed during construction activities.
- The visual examination of PCB-containing FLB and Hg-containing light tubes was conducted to identify potential hazards regulated by Washington State Department of Ecology (DOE) WAC 173-303 and Washington State Department of Occupational Safety and Health (DOSH) WAC 296-841.

1.3 Limitation of the Assessment

This targeted assessment was limited to building components that would be impacted regarding renovation and demolition activities. The conclusions within this report are professional opinions based solely upon visual site observations and interpretations of analytical data as described in this report.



Typical construction techniques can render portions of the building inaccessible. As a result, additional ACBM may be present in inaccessible areas (e.g., ground or components beneath the concrete slab). Suspect ACM, LCP and other hazardous materials within inaccessible areas should be presumed until characterized.

The opinions presented herein apply to the site conditions existing at the time of the investigation and interpretation of current regulation pertaining to asbestos and lead. Opinions and recommendations provided herein may not apply to future conditions that may exist at the site. Regulatory requirement in effect at the time of the work should be verified prior to any work that impacts hazardous materials. This report represents the finding of this survey only and is not intended to establish scope or contractual terms to hazardous material abatement.

2.0 ASBESTOS SURVEY METHODOLOGY

This section describes the sampling methodology. Supporting documentation provided within the survey reports includes materials summary tables, photographs, laboratory analytical reports, chain of custody forms, etc.

2.1 Survey Methodology

A “walk-through” inspection of accessible areas was conducted to identify suspect ACBM and PACM. The asbestos survey was performed by AHERA-certified building inspectors in accordance with a sampling protocol appropriate for the demolition of the garage. The inspectors’ AHERA certifications are provided in the Appendices. The sampling protocol was modeled after 40 CFR 763.86 and DOSH regulation (WAC 296.62.07721). The approximate quantity of materials was obtained from field measurements.

2.2 Sampling and Sample Documentation

Suspect ACBM was grouped into homogeneous sampling areas and categorized as TSI, surfacing material, or miscellaneous material. The sampling plan included, at a minimum, the collection and analysis of samples as follows:

Thermal System Insulation

- In a distributive manner, a minimum of three samples of each homogeneous area that was not PACM
- At least one bulk sample from each homogeneous area of patched TSI if the patch was less than 6 square feet.

Surfacing Material

- In a distributive manner, a minimum of three samples collected from each homogeneous area that was less than 1,000 square feet



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- A minimum of five samples collected from each homogeneous area that was greater than 1,000 square feet but less than or equal to 5,000 square feet.
- A minimum of seven samples collected from each homogeneous area that was greater than 5,000 square feet.

Miscellaneous Material

- In a distributive manner as deemed sufficient by the AHERA Building Inspector. At least one sample was collected of each suspect miscellaneous material not PACM.

Non-Suspect Materials

According to 40 CFR 763-86(4), sampling of the following materials are not required where the accredited inspector has deemed the materials to be fiberglass, foam glass, rubber or other recognized non-ACBM.

Samples were collected by carefully removing small portions of the suspect material with a sharp knife or other hand tool suitable to the materials being sampled. Each sample was placed in a labeled plastic container immediately after collection. Sample containers were then placed in a large re-sealable plastic bag for transportation to the laboratory. The sampling instrument was wiped with a clean moist cloth to decontaminate the tool and minimize the potential release of asbestos fibers or contamination of the subsequent samples. Data pertinent to each sample (e.g., date, sample number, material description, and material category) was recorded on a field data sheet.

2.3 Laboratory Analysis

Asbestos bulk samples and chain-of-custody submittal sheets were delivered Batta Laboratory of Delaware, who are accredited by the National Voluntary Laboratory Accreditation Program (NVLAP); accreditation no. 101032-0. As specified in 40 CFR Chapter I (1-1-87 edition) Part 763, Subpart F, Appendix A, each sample was analyzed using PLM/dispersion staining techniques, in accordance with EPA Method 600/R-93/116). The detection limit for this type of analysis is approximately one percent (by volume). Materials containing more than one percent asbestos are considered to ACBM. BATTA performs stratified Point Count Method (400-point count) analysis of any materials initially determined by PLM to less than 10 percent asbestos.

3.0 LEAD PAINT SURVEY METHODOLOGY

3.1 General

The survey was conducted using a NITON XLp300A X-ray fluorescence (XRF) instrument. The purpose of the assessment was to identify the presence of lead in the paint for components being impacted or to identify painted surfaces that may be impacted as a result of renovation, demolition, upgrades and



repairs. Testing was performed on representative main-theme painted components with the intent of ascertaining the presence of lead-based paint above specified regulatory action levels of any measurable concentration. If lead-based paint was found, the survey would identify architectural components and their respective lead concentrations as positive or negative.

3.2 How the Instrument Works

The XRF directs high-energy X-rays into a surface. These high-energy rays strike atoms in the surface, causing electrons to be ejected from their orbits. Characteristic X-ray energy is emitted when another electron fills the void in the shell. The emitted energy is detected by the XRF instrument and converted to a quantitative measure. For the lead atom, characteristic frequencies are emitted from the K-and L-shells, its two innermost electron orbits. Energy emitted from these shells (energy bands) are referred to as K X-rays and L X-rays respectively. The length of each test can vary based on the strength of the radioactive source.

Testing was performed by state-accredited lead paint inspectors and lead paint risk assessor who are trained and licensed in the use of the NITON XRF. At no time were the instrument used while non-trained personnel were in the area. This includes testing wall where individual may be on the opposite side.

3.3 Calibration

Calibration is performed both directly on bare substrates and on National Institute of Standards and Technology (NIST) standard reference material (SRM) films placed over the bare areas. The NIST SRM used during calibration has a lead level of 1.02 mg/cm². The measurements taken on the NIST SRM film (with the 1.02 mg/cm² lead level) placed over the bare areas were obtained to examine the performance of the instrument.

4.0 REGULATORY OVERVIEW

4.1 Asbestos

The NESHAP regulation for asbestos regulates asbestos fiber emissions and asbestos waste disposal practices. It requires the identification of existing asbestos-containing building materials (ACBM) according to friability prior to demolition or renovation activity. Friable is a material containing more than 1% asbestos that, when dry, may be crumbled, pulverized or reduced to powder by hand pressure.

The NESHAP regulation classifies ACBM as either regulated asbestos-containing material (RACM), Category I non-friable ACBM or Category II non-friable ACBM. RACM includes all friable ACBM, along with Category I non-friable ACBM that has become friable or will be or has been subjected to sanding, grinding,



cutting or abrading, and Category II non-friable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder in the course of renovation or demolition activity. Category I non-friable ACM are exclusively asbestos-containing packings, gaskets, resilient floor coverings, floor covering mastics and asphalt roofing products that contain more than 1% asbestos. Category II non-friable ACM are all other non-friable materials other than Category I non-friable ACM that contain more than 1% asbestos. RACM must be removed prior to renovation or demolition activities.

Washington Administrative Code (WAC) 173-400-075 adopts the federal NESHAP rule by reference. In the State of Washington, authority to administer NESHAP requirements is delegated to the regional air pollution authorities (e.g., the local Clean Air Agency or the Washington State Department of Ecology. In Thurston County, the NESHAP requirements are administered by the Northwest Clean Air Agency (NWCAA). NWCAA must be notified at least 10 working days prior to demolition of any structure with a projected roof greater than 120 square feet, regardless of whether any asbestos was identified. Notification is not required for renovation projects, unless the project involves the disturbance of friable asbestos containing materials. The owner or operator must also provide Washington State Department of Occupational Safety and Health (DOSH) with written notification at least 10 working days prior to the commencement of asbestos removal projects involving at least 10 linear feet or 48 square feet or RACM. Removal of RACM must be conducted by a State of Washington-certified asbestos abatement contractor.

In the State of Washington, worker exposures to asbestos are governed by Labor and Industries; (L&I's) DOSH. The administrative rule WAC 296-62-07705 requires that employee exposure to airborne asbestos fibers be maintained below 0.1 asbestos fibers per cubic centimeters of air (0.1 f/cc) as an eight hour time weighted average. State of Washington Occupational Safety and Health rules also classify construction and maintenance activities which could disturb ACM, and specify work practices and precautions which employers must follow when their employees engage in each class of regulated work.

4.2 Lead

Lead was commonly used in most products until 1978, when it was banned from residential paints at concentrations greater than 600 parts per million (PPM); however, commercial applications with lead were still utilized and are still available. Lead is poisonous to the human body and presents a potential health hazard during any kind of disturbance (such as maintenance, including grinding, welding and cutting) and if improperly disposed, where lead can enter drinking water supplies.

EPA and Washington State defines lead-based paint as a concentration of 1.0 milligrams per square centimeters squared (mg/cm²) or greater by X-ray fluorescence (XRF) or 0.5 percent by weight or greater by total lead analysis (equivalent to 5,000 ppm). This EPA action level triggers requirements for protection of the environment, maintenance workers, and building occupants. It also triggers training and certification requirements for inspectors, project designers, contractors, supervisors and workers. The training requirements apply to certain residential structures and/or child occupied facilities, which this building fits well into the description of consideration.



The Occupational Safety and Health Administration (OSHA) and Washington State Department of Occupational Safety and Health (DOSH) worker protection regulations has not defined a minimum concentration for regulating lead and has clarified that lead at any detectable concentration shall be considered regulated (29 CFR 1926.62; WAC 296-62-176). OSHA and DOSH applies to all construction work and to general industry where an employee may be occupationally exposed to lead. Construction work is defined as work for construction, alteration and/or repair, including painting and decorating. It includes but is not limited to the following:

- Demolition or salvage of structures where lead or materials containing lead are present;
- Removal or encapsulation of materials containing lead;
- New construction, alteration, repair, or renovation of structures, substrates, or portions thereof, that contain lead, or materials containing lead;
- Installation of products containing lead
- Lead contamination/emergency cleanup;
- Transportation, disposal, storage, or containment of lead or materials containing lead on the site or location at which construction activities are performed, and
- Maintenance operations associated with the construction activities described in this paragraph.

As defined by OSHA, any detectable concentration of lead creates the requirement for implementing worker, and in some cases, environmental protection. The current OSHA standard (29 CFR 1926.62) and DOSH (WAC) 296-155 for standards, when the PEL is exceeded, the hierarchy of controls requires employers to institute feasible engineering and work practice controls as the primary means to reduce and maintain employee exposures to levels at or below the PEL.

When all feasible engineering and work practice controls have been implemented but have proven inadequate to meet the PEL, employers must nonetheless implement these controls and must supplement them with appropriate respiratory protection. The employer also must ensure that employees wear the respiratory protection provided when it is required

As referenced in OSHA's Technical Manual – Controlling Lead Exposures in the Construction Industry: Engineering and Work Practice Controls; Appendix V: 3-1 provides a construction task table and their presumed 8-hour TWA exposure levels:

> 50 to 500 µg/m ³	> 500 µg/m ³ to 2,500 µg/m ³	> 2,500 µg/m ³
Manual demolition	Using lead-containing mortar	Abrasive blasting
Dry manual scraping	Lead burning	Welding
Dry manual sanding	Rivet busting	Torch cutting
Heat gun use	Power tool cleaning without dust collection systems	Torch burning



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Power tool cleaning w/ dust collection systems	Cleanup dry expendable abrasive blasting jobs
Spray painting with lead paint	Abrasive blasting enclosure movement and removal

The current lead standard for construction is unique in that it groups tasks presumed to create employee exposures above the PEL of $50 \mu\text{g}/\text{m}^3$ as an 8-hour TWA. Until the employer performs an employee exposure assessment and determines actual employee exposure, the employer must assume that employees performing one of these tasks are exposed to the levels of lead indicated for that task as referenced above. For all three groups of tasks, employers are required to provide respiratory protection appropriate to the task's presumed exposure level, protective work clothing and equipment, change areas, hand-washing facilities, training, and initial medical surveillance as prescribed by paragraph (d)(2)(v) of the standard. The only difference in the provisions applying to these groups is in the degree of respiratory protection required

4.3 PCB

Washington state Department of Ecology (DOE) references that concentrations of PCBs greater than 50 mg/Kg in solids or liquids is considered contaminated to be contaminated, which special procedures handling and disposal will be required. Department of Occupational Safety and Health (DOSH) has established worker protection guidelines for the disturbance of PCB containing compounds materials when:

- 1) Leaching PCBs to the surface and skin contacts occur;
- 2) Causing PCB contamination of the air, including dust, above the permissible exposure level of $0.5 \text{ mg}/\text{m}^3$; or
- 3) Penetrated by water.

When removing PCBs, skin contact must be avoided. As with other hazardous substances, a hierarchy of control measures must be considered for the handling of PCBs with include:

1. Isolation to control the emission of PCBs or PCB dusts;
2. Engineering controls to minimize the direct handling of compounds and to minimize generating any airborne dusts;
3. Adoption of safe work practices; and
4. Where other effective means for control listed above are not practicable, suitable personal protective equipment is to be used.



The demolition process may give rise to two types of exposure – that from the PCB compounds itself and that from the dust. Prior to demolition, any regulated PCB containing compound in the structure must be removed in accordance with state regulations. Bulk removal is required (see PCB light ballasts below). As with any demolition process, dust will be generated and may constitute a hazard depending on how it will be impacted, which appropriate dust control must be implemented (see Butimen expansion joint below).

The screening for ballasts was performed in accordance with EPA 909B-00-002 entitled “Removing PCBs from Light Fixtures”. No samples were collected as part of this work.

4.4 Fluorescent Light Bulbs

Fluorescent light bulbs are present throughout the building and may be mercury vapor containing, which can be classified as universal waste. Universal wastes are a subset of hazardous wastes that are ubiquitous throughout commercial and industrial buildings. In accordance with EPA requirements, identified universal wastes must either be recycled where appropriate or disposed of as universal waste.

5.0 LIMITATIONS

This hazardous material survey was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the professions currently practicing under similar conditions in the same locale. The results, conclusions and recommendations expressed in this report are based on the conditions observed during our assessment of the work area being impacted. The information contained in this report is relevant to the date on which this assessment was performed, and should not be relied upon to represent conditions at a later date. This report has been prepared on behalf of and exclusively for the use by NWCI and Modawell Group for specific application to their project as discussed. This report is not a bidding document. Contractors or consultants reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary. ORION does not warrant the work of regulatory agencies, laboratories or other third parties supplying information which may have been used in the preparation of this report. No warranty, express or implied is made.

6.0 CONCLUSIONS AND RECOMENDATIONS

- Materials being impacted that were not identified in the reports must be presumed as asbestos or lead containing until subsequent sampling can be conducted by an accredited professional.
- Fluorescent light fixtures within the building (if not certified as non-mercury containing) must be recycled in accordance with Washington State Department of Ecology Regulations.



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ATTACHMENT 1
Asbestos Findings and Recommendations

Suspect Material Table
Photographs
Certificate of Analysis
Sample Location Drawing
Inspectors' Accreditation



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SUSPECT MATERIAL TABLE

A total of forty-four (44) samples consisting of various suspect materials were processed. **No asbestos was identified in these samples.** Components sampled are listed in the following table. Laboratory analytical reports and sample location maps are included in this attachment

SUSPECT MATERIAL	HOMOGENEOUS IDENTIFICATION	SAMPLE NO.	DESCRIPTION	RESULTS
Mastic	MAS 1	01	Carpet mastic in school entry	No Asbestos
	MAS 2	02	Carpet mastic in Admin.	No Asbestos
	MAS 3	15	Panel board mastic in Library	No Asbestos
	MAS 4	17	Wainscoting Mastic in Special Ed	No Asbestos
	MAS 5	18	Floor leveler in Kitchen	No Asbestos
	CBM 1	07	2" Cove Base w/Yellow Mastic throughout building	No Asbestos
	CBM 2	16	2" Cove Base/Yellow Mastic throughout building	No Asbestos
	CBM 3	23	2" Cove Base/Yellow Mastic in Gym	No Asbestos
	VS 1 & VS 2	3	Multiple-layered sheeting in closet across from Principal's Office	No Asbestos
Vinyl Flooring	VS 1	31	Vinyl Sheeting Custodian Closet across from Room 6	No Asbestos
	VS 2	32	Vinyl Sheeting in Room 4	No Asbestos
Insulation	INS 1	04	Foam Insulation in Principal's Office	No Asbestos
Ceiling Tile	CT 1	05	2 x 4 Ceiling Tile in Principal's Office and throughout building	No Asbestos
Ceramic Tile	CRT 1	08	Ceramic Tile Set in Admin Bathroom (wall)	No Asbestos
	CRT 2	09	Ceramic Tile Set in Admin Bathroom (floor)	No Asbestos
	CRT 3	13	Ceramic Tile Set in Bathrooms	No Asbestos



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SUSPECT MATERIAL	HOMOGENEOUS IDENTIFICATION	SAMPLE NO.	DESCRIPTION	RESULTS
Sink Undercoat	SNK 1	10	Dark Sink Undercoat in Nurse Office	No Asbestos
Wall System	WS 1	11	Wallboard and Taping Mud throughout building	No Asbestos
	WS 2	12	Brick Grout in Entry and Hallway	No Asbestos
	WS 3	14	Wallboard and Taping Mud throughout building	No Asbestos
	WS 4	19	Skim Coat, Green Board and Vapor Barrier in Kitchen	No Asbestos
	WS 5	24	Wallboard, Joint Compound and Mastic on Gym Walls	No Asbestos
	WS 6	36	Multiple layered wall system on Exterior Soffit	No Asbestos
	SM 1	20, 21	Skim Coat in Kitchen	No Asbestos
Surfacing Material	SM 2	37, 38, 39, 40, 41, 42, 43	Skim Coat on Exterior soffit and walls	No Asbestos
Miscellaneous	MISC 1	06	Vinyl Paper, mastic and wallboard in Admin.	No Asbestos
	MISC 2	22	Vinyl Flooring Pad in Gym	No Asbestos
	MIS 3	34	Fiberglass Pipe Wrap with/Caulked Ends	No Asbestos
Pipe Insulation	TSI 1	25, 26, 27	2" Mudded Fittings in Outside Kitchen	No Asbestos
	TSI 2	28, 29, 30	4" Mudded Fittings in Custodian Closet	No Asbestos
Caulking	CLK 1	33	Interior Window Caulking in Classrooms	No Asbestos
	CLK 2	35	Window Caulk in Admin.	No Asbestos
	CLK 3	44	Exterior Window Caulk	No Asbestos

NOTE: Asbestos-containing pipe insulation is presumed inside sealed for utilidor for an estimated quantity of 3,500 linear feet (not including debris). Confirmation to determine material as non-asbestos containing (if existing) will need to be performed by an accredited AHERA Building inspector.

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Environment Since 1982



NY ELAP LAB# 11993 for
PCM, PLM, TEM & Lead

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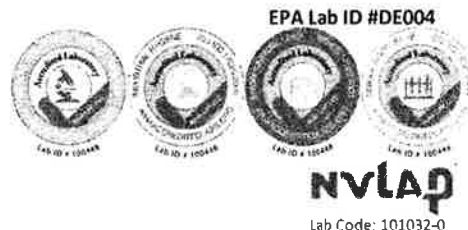
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Dept. Code: PLM

Rev. #: 0

Batch#: N/A

COC#: N/A

CERTIFICATE OF PLM ANALYSIS

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Test Method: EPA/600/R-93/116 in conjunction with Batta SOP

Report Date: 07/23/20

Sampling Data

BLI Project #: R100815

Date Sampled: 07/16/20

Project Name: ORION ENV-020-0277 Osborne Elementary- 225 Central Ave, Leavenworth, WA

Sampled By: CLIENT

Date Analyzed: 07/23/20

Sample ID		Client-supplied Data			Analytical Data		Reported Results	
Lab Sample#	Client Sample#	Sample Description	Material Type	Friable?	Texture/ Gross	Color	Non-asbestiform Components	Asbestiform Components
1147543	01	School Entry	Carpet Mastic	n/a	Firm	Tan	100% Non- fibrous Material	No Asbestos Found
					Homogeneous			
1147544	02	Admin	Carpet Mastic	n/a	Firm	Tan	100% Non- fibrous Material	No Asbestos Found
					Homogeneous			
1147545	03	Closet Across from Principal	Vinyl Sheeting	n/a	Firm	Gray Pink	100% Non- fibrous Material	No Asbestos Found
					Homogeneous			
1147546	03 (Layer 1)	Closet Across from Principal	Vinyl Sheeting	n/a	Firm	Tan	5% Synthetic Fiber 5% Fiber Glass 90% Non-fibrous Material	No Asbestos Found
					Homogeneous			
1147547	04	Principal	Foam Insulation	n/a	Fibrous	Brown	100% Mineral Wool	No Asbestos Found
					Homogeneous			

Note 1 Due to limitations of the EPA PLM method, floor tiles may yield false negative (<1%) results by this method. As such, the EPA recommends further analysis by electron microscopy. Batta recommends the NY 198.4 over the Chatfield method.

Note 2 Unless otherwise specified, Tr=Trace and correlates to <0.25% (based on a 400-point EPA point count).

Note 3 Materials containing vermiculite are not good candidates for analysis using standard EPA 600 PLM protocol. Results may be low-biased due to inherent limitations caused by the material. The EPA recommends that vermiculite attic insulation (VAI) be prepped and analyzed using EPA 600/R-04/004, known as "The Cincinnati Method".

ANALYST: REP

REVIEWED BY: 

QA/QC Officer/Signatory

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*This report does not constitute endorsement by NVLAP and/or any other US government agencies.

*The test data pertain only to the items tested. No assumptions or conclusions should be made to materials or samples not analyzed. Furthermore, Batta Laboratories, LLC assumes no responsibility for the accuracy of results influenced by the use of improper collection techniques or equipment.

*Organically-bound, nonfriable material may interfere with the accurate and reproducible quantification of asbestos. In these cases, the EPA recommends further analysis by a matrix-reduction method. Batta recommends the NY ELAP Item 198.6/198.4 over the Chatfield method. When point count techniques are utilized on organically-bound, nonfriable materials without the EPA-recommended matrix reduction steps, Batta Laboratories assumes no responsibility regarding the accuracy or precision associated with these results. In these cases, Batta employs a modified version of the EPA point count method.

*WRTA refers to a group of fibrous Amphiboles typically associated with 'Libby Amphibole'. Within this classification are: winchite, richterite, tremolite, and actinolite.

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NY ELAP LAB# 11993 for
PCM, PLM, TEM & Lead

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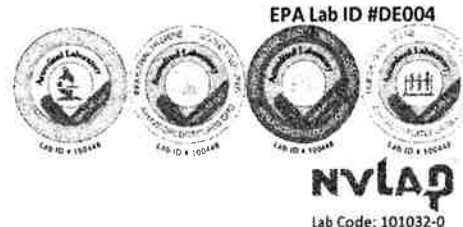
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Lab Code: 101032-0

Dept. Code: PLM

Rev. #: 0

Batch#: N/A

COC#: N/A

CERTIFICATE OF PLM ANALYSIS

Page 2 of 16

Test Method: EPA/600/R-93/116 in conjunction with Batta SOP

Report Date: 07/23/20

Sampling Data

BLI Project #: R100815

Date Sampled: 07/16/20

Project Name: ORION ENV-020-0277 Osborne Elementary- 225 Central Ave, Leavenworth, WA

Sampled By: CLIENT

Date Analyzed: 07/23/20

Sample ID		Client-supplied Data			Analytical Data		Reported Results	
Lab Sample#	Client Sample#	Sample Description	Material Type	Friable?	Texture/ Gross	Color	Non-asbestiform Components	Asbestiform Components
1147548	05	Principal	Ceiling Tile	n/a	Fibrous Homogeneous	White	45% Mineral Wool 30% Cellulose 25% Non-fibrous Material	No Asbestos Found
1147549	06	Admin	Vinyl Paper	n/a	Fibrous Homogeneous	White	20% Fiber Glass 20% Synthetic Fiber 10% Cellulose 50% Non-fibrous Material	No Asbestos Found
1147550	06 (Layer 1)	Admin	Mastic	n/a	Firm Homogeneous	Tan	100% Non- fibrous Material	No Asbestos Found
1147551	06 (Layer 2)	Admin	Wallboard	n/a	Firm Homogeneous	White	5% Fiber Glass 95% Non-fibrous Material	No Asbestos Found
1147552	07	Admin	2" Cove Base	n/a	Firm Homogeneous	Black	100% Non- fibrous Material	No Asbestos Found

Note 1 Due to limitations of the EPA PLM method, floor tiles may yield false negative (<1%) results by this method. As such, the EPA recommends further analysis by electron microscopy. Batta recommends the NY 198.4 over the Chatfield method.

Note 2 Unless otherwise specified, Tr=Trace and correlates to <0.25% (based on a 400-point EPA point count).

Note 3 Materials containing vermiculite are not good candidates for analysis using standard EPA 600 PLM protocol. Results may be low-biased due to inherent limitations caused by the material. The EPA recommends that vermiculite attic insulation (VAI) be prepped and analyzed using EPA 600/R-04/004, known as "The Cincinnati Method".

ANALYST: _____ REP: _____

REVIEWED BY: _____

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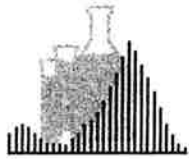
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Dept. Code: PLM

Rev. #: 0
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CERTIFICATE OF PLM ANALYSIS

Page 3 of 16

Test Method: EPA/600/R-93/116 in conjunction with Batta SOP

Report Date: 07/23/20

Sampling Data

BLI Project #: R100815

Date Sampled: 07/16/20

Project Name: ORION ENV-020-0277 Osborne Elementary- 225 Central Ave, Leavenworth, WA

Sampled By: CLIENT

Date Analyzed: 07/23/20

Sample ID		Client-supplied Data			Analytical Data		Reported Results	
Lab Sample#	Client Sample#	Sample Description	Material Type	Friable?	Texture/ Gross	Color	Non-asbestiform Components	Asbestiform Components
1147553	07 (Layer 1)	Admin	Mastic	n/a	Firm	Tan	100% Non-fibrous Material	No Asbestos Found
Homogeneous								
1147554	08	Admin Bathroom Wall	Ceramic Tile	n/a	Firm	White	100% Non-fibrous Material	No Asbestos Found
Homogeneous								
1147555	08 (Layer 1)	Admin Bathroom Wall	Backing	n/a	Fibrous	White	80% Cellulose 20% Non-fibrous Material	No Asbestos Found
Homogeneous								
1147556	08 (Layer 2)	Admin Bathroom Wall	Grout	n/a	Cementitious	Gray	100% Non-fibrous Material	No Asbestos Found
Homogeneous								
1147557	09	Admin Floor	Ceramic Tile	n/a	Firm	Tan	100% Non-fibrous Material	No Asbestos Found
Homogeneous								

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Note 2 Unless otherwise specified, Tr=Trace and correlates to <0.25% (based on a 400-point EPA point count).

Note 3 Materials containing vermiculite are not good candidates for analysis using standard EPA 600 PLM protocol. Results may be low-biased due to inherent limitations caused by the material. The EPA recommends that vermiculite attic insulation (VAI) be prepped and analyzed using EPA 600/R-04/004, known as "The Cincinnati Method".

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EPA Lab ID #DE004

NVLAP

Lab Code: 101032-0

Dept. Code: PLM

Rev. #: 0

Batch#: N/A

COC#: N/A

CERTIFICATE OF PLM ANALYSIS

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Test Method: EPA/600/R-93/116 in conjunction with Batta SOP

Report Date: 07/23/20

Sampling Data

BLI Project #: R100815

Date Sampled: 07/16/20

Project Name: ORION ENV-020-0277 Osborne Elementary- 225 Central Ave, Leavenworth, WA

Sampled By: CLIENT

Date Analyzed: 07/23/20

Sample ID		Client-supplied Data			Analytical Data		Reported Results	
Lab Sample#	Client Sample#	Sample Description	Material Type	Friable?	Texture/ Gross	Color	Non-asbestiform Components	Asbestiform Components
1147558	09 (Layer 1)	Admin Floor	Grout	n/a	Cementitious	Gray	100% Non-fibrous Material	No Asbestos Found
					Homogeneous			
1148191	09 (Layer 2)	Admin Floor	Backing	n/a	Fibrous	White	80% Cellulose 20% Non-fibrous Material	No Asbestos Found
					Homogeneous			
1147559	10	Nurse	Sink Undercoat	n/a	Firm	Black	2% Cellulose 98% Non-fibrous Material	No Asbestos Found
					Homogeneous			
1147560	11	Admin	Joint Compound	n/a	Firm	White	100% Non-fibrous Material	No Asbestos Found
					Homogeneous			
1147561	11 (Layer 1)	Admin	Wallboard	n/a	Firm	White Tan	10% Cellulose 5% Fiber Glass 85% Non-fibrous Material	No Asbestos Found
					Homogeneous			

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Note 2 Unless otherwise specified, Tr=Trace and correlates to <0.25% (based on a 400-point EPA point count).

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EPA Lab ID #DE004



Lab Code: 101032-0

Dept. Code: PLM

Rev. #: 0
Batch#: N/A
COC#: N/A

CERTIFICATE OF PLM ANALYSIS

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Test Method: EPA/600/R-93/116 in conjunction with Batta SOP

Report Date: 07/23/20

Sampling Data

BLI Project #: R100815
Project Name: ORION ENV-020-0277 Osborne Elementary- 225 Central Ave, Leavenworth, WA

Date Sampled: 07/16/20

Sampled By: CLIENT

Date Analyzed: 07/23/20

Sample ID		Client-supplied Data			Analytical Data		Reported Results	
Lab Sample#	Client Sample#	Sample Description	Material Type	Friable?	Texture/ Gross	Color	Non-asbestiform Components	Asbestiform Components
1147562	12	Entry Hall Wall	Brick	n/a	Firm	Red	100% Non-fibrous Material	No Asbestos Found
					Homogeneous			
1147563	12 (Layer 1)	Entry Hall Wall	Grout	n/a	Cementitious	Gray	100% Non-fibrous Material	No Asbestos Found
					Homogeneous			
1147564	13	Bathrooms	Ceramic Tile	n/a	Firm	White	100% Non-fibrous Material	No Asbestos Found
					Homogeneous			
1147565	13 (Layer 1)	Bathrooms	Grout	n/a	Cementitious	Gray	100% Non-fibrous Material	No Asbestos Found
					Homogeneous			
1148192	13 (Layer 2)	Bathrooms	Backing	n/a	Fibrous	Tan	80% Cellulose 20% Non-fibrous Material	No Asbestos Found
					Homogeneous			

Note 1 Due to limitations of the EPA PLM method, floor tiles may yield false negative (<1%) results by this method. As such, the EPA recommends further analysis by electron microscopy. Batta recommends the NY 198.4 over the Chatfield method.

Note 2 Unless otherwise specified, Tr=Trace and correlates to <0.25% (based on a 400-point EPA point count).

Note 3 Materials containing vermiculite are not good candidates for analysis using standard EPA 600 PLM protocol. Results may be low-biased due to inherent limitations caused by the material. The EPA recommends that vermiculite attic insulation (VAI) be prepped and analyzed using EPA 600/R-04/004, known as "The Cincinnati Method".

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NVLAP
Lab Code: 101032-0

Dept. Code: PLM

Rev. #: 0

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CERTIFICATE OF PLM ANALYSIS

Page 6 of 16

Test Method: EPA/600/R-93/116 in conjunction with Batta SOP

Report Date: 07/23/20

Sampling Data

BLI Project #: R100815

Project Name: ORION ENV-O20-0277 Osborne Elementary- 225 Central Ave, Leavenworth, WA

Date Sampled: 07/16/20

Sampled By: CLIENT

Date Analyzed: 07/23/20

Sample ID		Client-supplied Data		Analytical Data		Reported Results	
Lab Sample#	Client Sample#	Sample Description	Material Type	Friable?	Texture/ Gross Color	Non-asbestiform Components	Asbestiform Components
1147566	14	Bathrooms	Joint Compound	n/a	Firm White	100% Non-fibrous Material	No Asbestos Found
					Homogeneous		
1147567	14 (Layer 1)	Bathrooms	Wallboard	n/a	Firm Tan	10% Cellulose Fiber Glass 5% Non-fibrous Material 85%	No Asbestos Found
					Homogeneous		
1147568	15	Special Ed.	Panel Board	n/a	Fibrous Tan	90% Cellulose 10% Non-fibrous Material	No Asbestos Found
					Homogeneous		
1147569	15 (Layer 1)	Special Ed.	Mastic	n/a	Firm Brown	100% Non-fibrous Material	No Asbestos Found
					Homogeneous		
1147570	16	Special Ed.	2" Cove Base	n/a	Firm Tan	100% Non-fibrous Material	No Asbestos Found
					Homogeneous		

Note 1 Due to limitations of the EPA PLM method, floor tiles may yield false negative (<1%) results by this method. As such, the EPA recommends further analysis by electron microscopy. Batta recommends the NY 198.4 over the Chatfield method.

Note 2 Unless otherwise specified, Tr=Trace and correlates to <0.25% (based on a 400-point EPA point count).

Note 3 Materials containing vermiculite are not good candidates for analysis using standard EPA 600 PLM protocol. Results may be low-biased due to inherent limitations caused by the material. The EPA recommends that vermiculite attic insulation (VAI) be prepped and analyzed using EPA 600/R-04/004, known as "The Cincinnati Method".

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EPA Lab ID #DE004

NVLAP

Lab Code: 101032-0

Dept. Code: PLM

Rev. #: 0

Batch#: N/A

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CERTIFICATE OF PLM ANALYSIS

Page 7 of 16

Test Method: EPA/600/R-93/116 in conjunction with Batta SOP

Report Date: 07/23/20

Sampling Data

BLI Project #: R100815

Date Sampled: 07/16/20

Project Name: ORION ENV-020-0277 Osborne Elementary- 225 Central Ave, Leavenworth, WA

Sampled By: CLIENT

Date Analyzed: 07/23/20

Sample ID		Client-supplied Data			Analytical Data		Reported Results	
Lab Sample#	Client Sample#	Sample Description	Material Type	Friable?	Texture/ Gross	Color	Non-asbestiform Components	Asbestiform Components
1147571	16 (Layer 1)	Special Ed.	Mastic	n/a	Firm	Tan	100% Non-fibrous Material	No Asbestos Found
Homogeneous								
1147572	16 (Layer 2)	Special Ed.	Mastic	n/a	Firm	Brown	100% Non-fibrous Material	No Asbestos Found
Homogeneous								
1147573	16 (Layer 3)	Special Ed.	Mastic	n/a	Firm	Black	100% Non-fibrous Material	No Asbestos Found
Homogeneous								
1147574	17	Special Ed.	Wainscoting	n/a	Firm	White Brown	90% Cellulose 10% Non-fibrous Material	No Asbestos Found
Homogeneous								
1147575	17 (Layer 1)	Special Ed.	Mastic	n/a	Firm	Tan	100% Non-fibrous Material	No Asbestos Found
Homogeneous								

Note 1 Due to limitations of the EPA PLM method, floor tiles may yield false negative (<1%) results by this method. As such, the EPA recommends further analysis by electron microscopy. Batta recommends the NY 198.4 over the Chatfield method.

Note 2 Unless otherwise specified, Tr=Trace and correlates to <0.25% (based on a 400-point EPA point count).

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ANALYST: REP

REVIEWED BY: RJ

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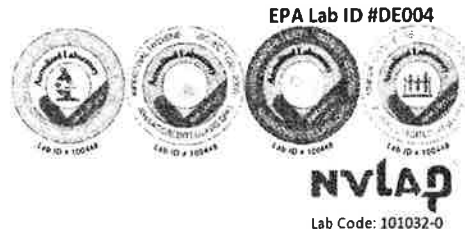


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Lab Code: 101032-0

Dept. Code: PLM

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CERTIFICATE OF PLM ANALYSIS

Page 8 of 16

Test Method: EPA/600/R-93/116 in conjunction with Batta SOP

Report Date: 07/23/20

Sampling Data

BLI Project #: R100815

Date Sampled: 07/16/20

Project Name: ORION ENV-020-0277 Osborne Elementary- 225 Central Ave, Leavenworth, WA

Sampled By: CLIENT

Date Analyzed: 07/23/20

Sample ID		Client-supplied Data			Analytical Data		Reported Results	
Lab Sample#	Client Sample#	Sample Description	Material Type	Friable?	Texture/ Gross	Color	Non-asbestiform Components	Asbestiform Components
1147576	18	Kitchen	Mastic	n/a	Firm	Yellow	100% Non-fibrous Material	No Asbestos Found
					Homogeneous			
1147577	18 (Layer 1)	Kitchen	Floor Leveler	n/a	Granular	Tan	100% Non-fibrous Material	No Asbestos Found
					Homogeneous			
1147578	19	Kitchen	Skim Coat	n/a	Firm	White	100% Non-fibrous Material	No Asbestos Found
					Homogeneous			
1147579	19 (Layer 1)	Kitchen	Green Board	n/a	Fibrous	Green Tan	95% Cellulose 5% Non-fibrous Material	No Asbestos Found
					Homogeneous			
1147580	19 (Layer 2)	Kitchen	Vapor Barrier	n/a	Fibrous	Tan Black	95% Cellulose 5% Non-fibrous Material	No Asbestos Found
					Homogeneous			

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ANALYST: REP

REVIEWED BY:

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Lab Code: 101032-0

Dept. Code: PLM

Rev. #: 0

Batch#: N/A

COC#: N/A

CERTIFICATE OF PLM ANALYSIS

Page 9 of 16

Test Method: EPA/600/R-93/116 in conjunction with Batta SOP

Report Date: 07/23/20

Sampling Data

BLI Project #: R100815

Date Sampled: 07/16/20

Project Name: ORION ENV-020-0277 Osborne Elementary- 225 Central Ave, Leavenworth, WA

Sampled By: CLIENT

Date Analyzed: 07/23/20

Sample ID		Client-supplied Data			Analytical Data		Reported Results	
Lab Sample#	Client Sample#	Sample Description	Material Type	Friable?	Texture/ Gross	Color	Non-asbestiform Components	Asbestiform Components
1147581	20	Kitchen	Skim Coat	n/a	Firm Homogeneous	White	100% Non-fibrous Material	No Asbestos Found
1147582	21	Kitchen	Skim Coat	n/a	Firm Homogeneous	White	100% Non-fibrous Material	No Asbestos Found
1147583	22	Gym	Vinyl Flooring/Pa d	n/a	Firm Homogeneous	Blue Gray	100% Non-fibrous Material	No Asbestos Found
1147584	22 (Layer 1)	Gym	Concrete	n/a	Firm Homogeneous	Gray	100% Non-fibrous Material	No Asbestos Found
1147585	23	Gym	2" Cove Base	n/a	Firm Homogeneous	Tan	100% Non-fibrous Material	No Asbestos Found

Note 1 Due to limitations of the EPA PLM method, floor tiles may yield false negative (<1%) results by this method. As such, the EPA recommends further analysis by electron microscopy. Batta recommends the NY 198.4 over the Chatfield method.

Note 2 Unless otherwise specified, Tr=Trace and correlates to <0.25% (based on a 400-point EPA point count).

Note 3 Materials containing vermiculite are not good candidates for analysis using standard EPA 600 PLM protocol. Results may be low-biased due to inherent limitations caused by the material. The EPA recommends that vermiculite attic insulation (VAI) be prepped and analyzed using EPA 600/R-04/004, known as "The Cincinnati Method".

ANALYST: REP

REVIEWED BY:

QA/QC Officer/Signatory

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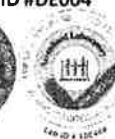
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CERTIFICATE OF PLM ANALYSIS

Page 10 of 16

Test Method: EPA/600/R-93/116 in conjunction with Batta SOP

Report Date: 07/23/20

Sampling Data

BLI Project #: R100815

Project Name: ORION ENV-020-0277 Osborne Elementary- 225 Central Ave, Leavenworth, WA

Date Sampled: 07/16/20

Sampled By: CLIENT

Date Analyzed: 07/23/20

Sample ID		Client-supplied Data			Analytical Data		Reported Results	
Lab Sample#	Client Sample#	Sample Description	Material Type	Friable?	Texture/ Gross	Color	Non-asbestiform Components	Asbestiform Components
1147586	23 (Layer 1)	Gym	Mastic	n/a	Firm	Yellow	100% Non-fibrous Material	No Asbestos Found
Homogeneous								
1147587	24	Gym	Joint Compound	n/a	Firm	White	100% Non-fibrous Material	No Asbestos Found
Homogeneous								
1147588	24 (Layer 1)	Gym	Wallboard	n/a	Firm	White Tan	10% Cellulose 5% Fiber Glass 85% Non-fibrous Material	No Asbestos Found
Homogeneous								
1147589	24 (Layer 2)	Gym	Mastic	n/a	Firm	Black	100% Non-fibrous Material	No Asbestos Found
Homogeneous								
1147590	25	2 Fittings	2" Pipe Wrap Mudded Fitting	n/a	Firm Fibrous	White	25% Cellulose 75% Non-fibrous Material	No Asbestos Found
Homogeneous								

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Note 2 Unless otherwise specified, Tr=Trace and correlates to <0.25% (based on a 400-point EPA point count).

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CERTIFICATE OF PLM ANALYSIS

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Test Method: EPA/600/R-93/116 in conjunction with Batta SOP

Report Date: 07/23/20

Sampling Data

BLI Project #: R100815

Date Sampled: 07/16/20

Project Name: ORION ENV-020-0277 Osborne Elementary- 225 Central Ave, Leavenworth, WA

Sampled By: CLIENT

Date Analyzed: 07/23/20

Sample ID		Client-supplied Data			Analytical Data		Reported Results	
Lab Sample#	Client Sample#	Sample Description	Material Type	Friable?	Texture/ Gross	Color	Non-asbestiform Components	Asbestiform Components
1147591	26	2 Fittings	2" Pipe Wrap Mudded Fitting	n/a	Firm Fibrous Homogeneous	White	25% Cellulose 75% Non-fibrous Material	No Asbestos Found
1147592	27	2 Fittings	2" Pipe Wrap Mudded Fitting	n/a	Firm Fibrous Homogeneous	White	25% Cellulose 75% Non-fibrous Material	No Asbestos Found
1147593	28	1 Fitting Directly Outside Kitchen	4" Pipe Wrap Mudded Fitting	n/a	Firm Fibrous Homogeneous	White	25% Cellulose 75% Non-fibrous Material	No Asbestos Found
1147594	29	1 Fitting Directly Outside Kitchen	4" Pipe Wrap Mudded Fitting	n/a	Firm Fibrous Homogeneous	White	25% Cellulose 75% Non-fibrous Material	No Asbestos Found
1147595	30	1 Fitting Directly Outside Kitchen	4" Pipe Wrap Mudded Fitting	n/a	Firm Fibrous Homogeneous	White	25% Cellulose 75% Non-fibrous Material	No Asbestos Found

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EPA Lab ID #DE004

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CERTIFICATE OF PLM ANALYSIS

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Test Method: EPA/600/R-93/116 in conjunction with Batta SOP

Report Date: 07/23/20

Sampling Data

BLI Project #: R100815

Date Sampled: 07/16/20

Project Name: ORION ENV-020-0277 Osborne Elementary- 225 Central Ave, Leavenworth, WA

Sampled By: CLIENT

Date Analyzed: 07/23/20

Sample ID		Client-supplied Data			Analytical Data		Reported Results	
Lab Sample#	Client Sample#	Sample Description	Material Type	Friable?	Texture/ Gross	Color	Non-asbestiform Components	Asbestiform Components
1147596	31	Custodian Closet across from Room 6	Vinyl Sheeting	n/a	Firm	Gray	100% Non- fibrous Material	No Asbestos Found
Homogeneous								
1147597	31 (Layer 1)	Custodian Closet across from Room 6	Mastic	n/a	Firm	Yellow	100% Non- fibrous Material	No Asbestos Found
Homogeneous								
1147598	32	Room 4	Vinyl Sheeting	n/a	Firm	Tan	10% Cellulose 5% Fiber Glass 85% Non-fibrous Material	No Asbestos Found
Homogeneous								
1147599	32 (Layer 1)	Room 4	Mastic	n/a	Firm	Black	100% Non- fibrous Material	No Asbestos Found
Homogeneous								
1147601	33	Room 1	Window Caulk	n/a	Soft	Black	100% Non- fibrous Material	No Asbestos Found
Homogeneous								

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EPA Lab ID #DE004

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Lab Code: 101032-0

Dept. Code: PLM

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CERTIFICATE OF PLM ANALYSIS

Page 13 of 16

Test Method: EPA/600/R-93/116 in conjunction with Batta SOP

Report Date: 07/23/20

Sampling Data

BLI Project #: R100815

Project Name: ORION ENV-020-0277 Osborne Elementary- 225 Central Ave, Leavenworth, WA

Date Sampled: 07/16/20

Sampled By: CLIENT

Date Analyzed: 07/23/20

Sample ID		Client-supplied Data			Analytical Data		Reported Results	
Lab Sample#	Client Sample#	Sample Description	Material Type	Friable?	Texture/ Gross	Color	Non-asbestiform Components	Asbestiform Components
1147602	34	Mech Room	Fiberglass Pipe Wrap	n/a	Fibrous	Yellow White	95% Fiber Glass 3% Cellulose 2% Non- fibrous Material	No Asbestos Found
Homogeneous								
1147603	34 (Layer 1)	Mech Room	Caulk End	n/a	Firm	Tan	100% Non- fibrous Material	No Asbestos Found
Homogeneous								
1147604	35	Admin	Window Caulk	n/a	Firm	Clear	100% Non- fibrous Material	No Asbestos Found
Homogeneous								
1147605	36	Exterior Ceiling Soffet & Wall	Skim Coat	n/a	Firm	White Red	100% Non- fibrous Material	No Asbestos Found
Layered								
1147606	36 (Layer 1)	Exterior Ceiling Soffet & Wall	Styroboard	n/a	Firm	White Gray	5% Fiber Glass 95% Non-fibrous Material	No Asbestos Found
Layered								

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Test Method: EPA/600/R-93/116 in conjunction with Batta SOP

Report Date: 07/23/20

Sampling Data

BLI Project #: R100815

Date Sampled: 07/16/20

Project Name: ORION ENV-O20-0277 Osborne Elementary- 225 Central Ave, Leavenworth, WA

Sampled By: CLIENT

Date Analyzed: 07/23/20

Sample ID		Client-supplied Data			Analytical Data		Reported Results	
Lab Sample#	Client Sample#	Sample Description	Material Type	Friable?	Texture/ Gross	Color	Non-asbestiform Components	Asbestiform Components
1147607	36 (Layer 2)	Exterior Ceiling Soffet & Wall	Mastic	n/a	Firm Homogeneous	Gray	100% Non-fibrous Material	No Asbestos Found
1147608	36 (Layer 3)	Exterior Ceiling Soffet & Wall	Vapor Barrier	n/a	Fibrous Homogeneous	Brown	75% Cellulose 25% Non-fibrous Material	No Asbestos Found
1147609	36 (Layer 4)	Exterior Ceiling Soffet & Wall	Wallboard	n/a	Firm Homogeneous	Tan	100% Non-fibrous Material	No Asbestos Found
1147610	37	Exterior Wall & Soffet	Skim Coat	n/a	Firm Layered	Red White	100% Non-fibrous Material	No Asbestos Found
1147612	38	Exterior Wall & Soffet	Skim Coat	n/a	Firm Layered	Red White	100% Non-fibrous Material	No Asbestos Found

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Test Method: EPA/600/R-93/116 in conjunction with Batta SOP

Report Date: 07/23/20

Sampling Data

BLI Project #: R100815

Date Sampled: 07/16/20

Project Name: ORION ENV-020-0277 Osborne Elementary- 225 Central Ave, Leavenworth, WA

Sampled By: CLIENT

Date Analyzed: 07/23/20

Sample ID		Client-supplied Data			Analytical Data		Reported Results	
Lab Sample#	Client Sample#	Sample Description	Material Type	Friable?	Texture/ Gross	Color	Non-asbestiform Components	Asbestiform Components
1147614	39	Exterior Wall & Soffet	Skim Coat	n/a	Firm	Red White	100% Non- fibrous Material	No Asbestos Found
					Layered			
1147616	40	Exterior Wall & Soffet	Skim Coat	n/a	Firm	Red White	100% Non- fibrous Material	No Asbestos Found
					Layered			
1147618	41	Exterior Wall & Soffet	Skim Coat	n/a	Firm	Red White	100% Non- fibrous Material	No Asbestos Found
					Layered			
1147620	42	Exterior Wall & Soffet	Skim Coat	n/a	Firm	Red White	100% Non- fibrous Material	No Asbestos Found
					Layered			
1147621	42 (Layer 1)	Exterior Wall & Soffet	Layer	n/a	Firm	White	100% Non- fibrous Material	No Asbestos Found
					Homogeneous			

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*The test data pertain only to the items tested. No assumptions or conclusions should be made to materials or samples not analyzed. Furthermore, Batta Laboratories, LLC assumes no responsibility for the accuracy of results influenced by the use of improper collection techniques or equipment.

*Organically-bound, nonfriable material may interfere with the accurate and reproducible quantification of asbestos. In these cases, the EPA recommends further analysis by a matrix-reduction method. Batta recommends the NY ELAP Item 198.6/198.4 over the Chatfield method. When point count techniques are utilized on organically-bound, nonfriable materials without the EPA-recommended matrix reduction steps, Batta Laboratories assumes no responsibility regarding the accuracy or precision associated with these results. In these cases, Batta employs a modified version of the EPA point count method.

*WRTA refers to a group of fibrous Amphiboles typically associated with 'Libby Amphibole'. Within this classification are: winchite, richterite, tremolite, and actinolite.

Dedicated to a Cleaner
Environment Since 1982



NY ELAP LAB# 11993 for
PCM, PLM, TEM & Lead

batta
LABORATORIES

BATTA LABORATORIES, LLC
A Certified MBE Company

Delaware Industrial Park, 6 Garfield Way
Newark, DE 19713-5817
Tel. (302) 737-3376 Fax (302) 737-5764

Web: <http://www.battaenv.com> E-mail: battaenv@battaenv.com



Lab Code: 101032-0

Dept. Code: PLM

Rev. #: 0

Batch#: N/A

COC#: N/A

CERTIFICATE OF PLM ANALYSIS

Page 16 of 16

Test Method: EPA/600/R-93/116 in conjunction with Batta SOP

Report Date: 07/23/20

Sampling Data

BLI Project #: R100815

Date Sampled: 07/16/20

Project Name: ORION ENV-020-0277 Osborne Elementary- 225 Central Ave., Leavenworth, WA

Sampled By: CLIENT

Date Analyzed: 07/23/20

Sample ID		Client-supplied Data			Analytical Data		Reported Results	
Lab Sample#	Client Sample#	Sample Description	Material Type	Friable?	Texture/ Gross	Color	Non-asbestiform Components	Asbestiform Components
1147622	43	Exterior Wall	Skim Coat	n/a	Firm	Red White	100% Non- fibrous Material	No Asbestos Found
					Layered			
1147623	44	Exterior	Window Caulk	n/a	Firm	Brown	100% Non- fibrous Material	No Asbestos Found
					Homogeneous			

Note 1 Due to limitations of the EPA PLM method, floor tiles may yield false negative (<1%) results by this method. As such, the EPA recommends further analysis by electron microscopy. Batta recommends the NY 198.4 over the Chatfield method.

Note 2 Unless otherwise specified, Tr=Trace and correlates to <0.25% (based on a 400-point EPA point count).

Note 3 Materials containing vermiculite are not good candidates for analysis using standard EPA 600 PLM protocol. Results may be low-biased due to inherent limitations caused by the material. The EPA recommends that vermiculite attic insulation (VAI) be prepped and analyzed using EPA 600/R-04/004, known as "The Cincinnati Method".

ANALYST: REP

REVIEWED BY: 

QA/QC Officer/Signatory

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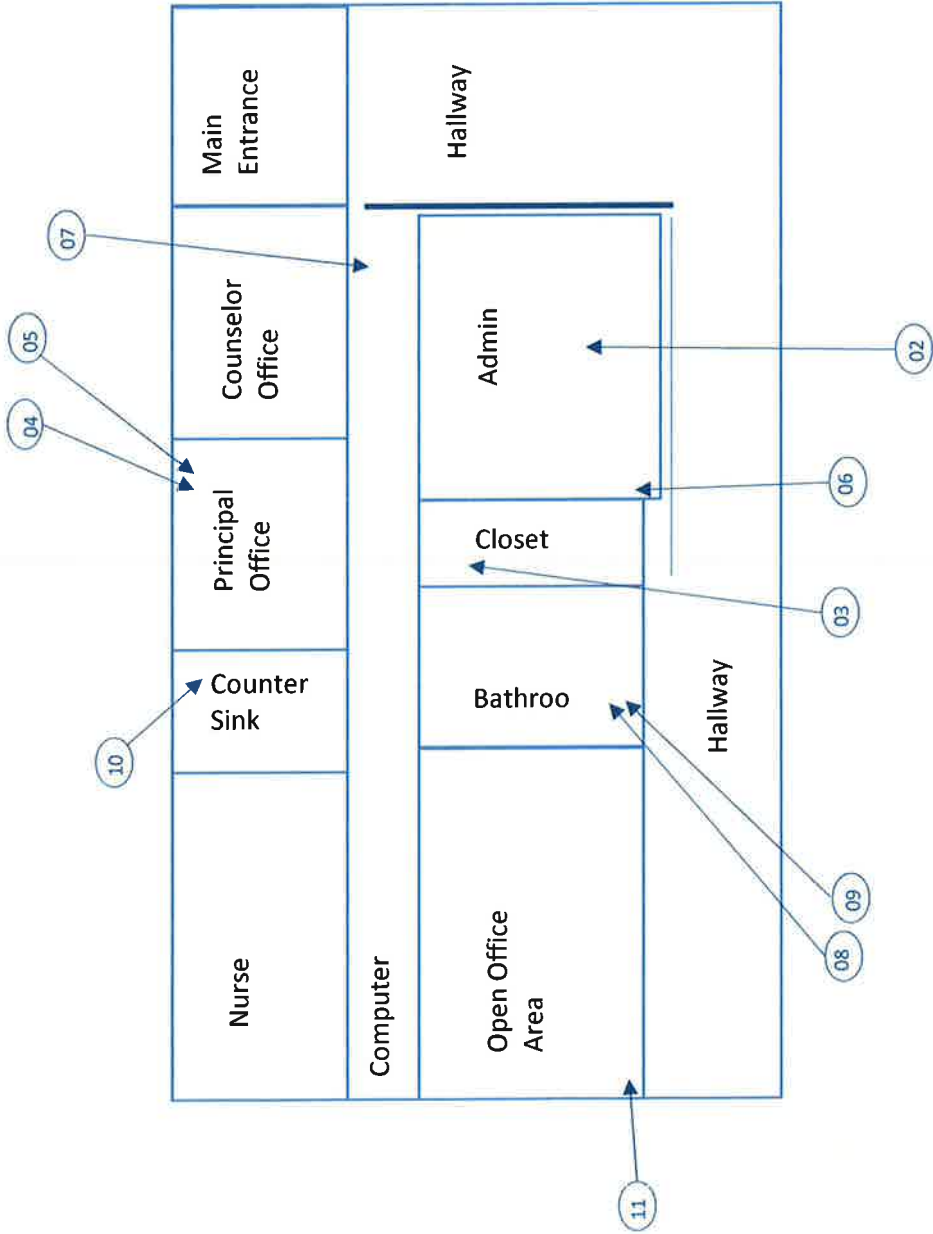
*The test data pertain only to the items tested. No assumptions or conclusions should be made to materials or samples not analyzed. Furthermore, Batta Laboratories, LLC assumes no responsibility for the accuracy of results influenced by the use of improper collection techniques or equipment.

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*WRTA refers to a group of fibrous Amphiboles typically associated with 'Libby Amphibole'. Within this classification are: winchite, richterite, tremolite, and actinolite.

ADMINISTRATION OFFICES

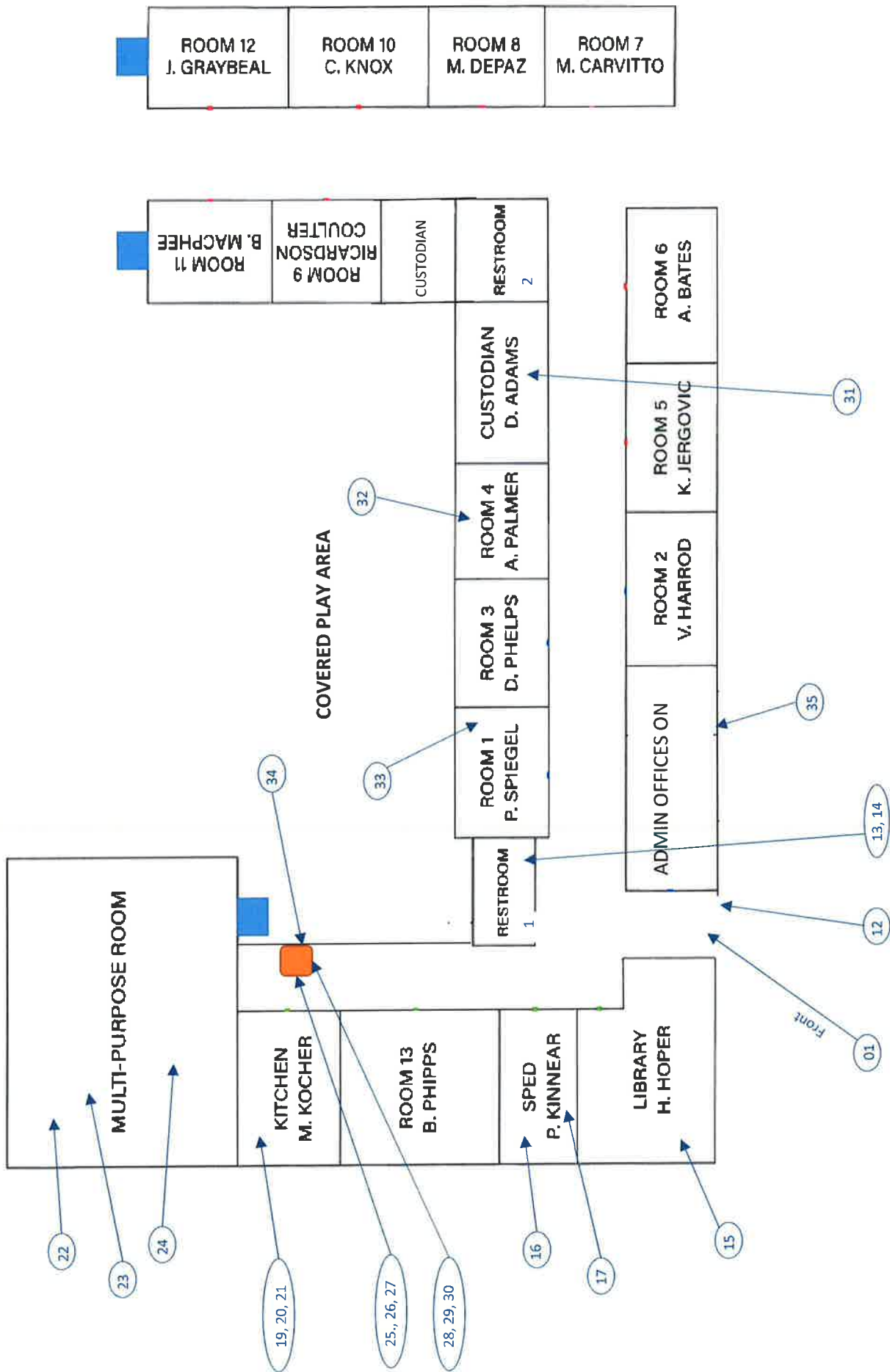
Sample Locations



OSBORNE ELEMENTARY

Sample Locations

Hatch - Exterior Tunnel Entrance



ADMIN	MAS1		CT1	VS1/VS2 (300 sf)	
	SNK1 X1	MISC1	WS1		
	CRT1 (160 sf)	CRT2 (25 sf)	INS1		
	CLK1	CLK2	CBM1	MISC1	
ENTRANCE	WS2	MISC1			
	MAS2				
	CBM1				
RESTROOM 1	CRT2	WS3			
GIRLS & BOYS	CRT3	WS1			
OUTSIDE ADMIN					
400 sf-total					
RESTROOM 2	CRT2	WS3			
ACROSS FROM ROOM 6	CRT3	WS1			
OUTSIDE ADMIN					
400 sf-total					
LIBRARY	MAS1	SNK1 X1	CBM1		
	CT1	WS1	MAS3		
ROOM 1	MAS1	SNK1 X1			
	MAS3	MISC1			
	CT1	WS1			
	CBM1	VS1/VS2 (300 sf)			
ROOM 2	MAS1	SNK1 X1			
	MAS3	MISC1			
	CT1	WS1			
	CBM1	VS1/VS2 (300 sf)			
ROOM 3	MAS1	SNK1 X1			
	MAS3	MISC1			
	CT1	WS1			
	CBM1	VS1/VS2 (300 sf)			
ROOM 4	MAS1	SNK1 X1			
	MAS3	MISC1			
	CT1	WS1			
	CBM1	VS2 (300 sf) - UNDER CARPET			
ROOM 5	MAS1	SNK1			
	MAS3	MISC1			
	CT1	WS1			
	CBM1	VS1/VS2 (300 sf)			

ROOM 6	MAS1	SNK1 X1			
	MAS3	MISC1			
	CT1	WS1			
	CBM1	VS1/VS2 (300 sf)			
ROOM 7	MAS1	SNK1 X1			
	MAS3	MISC1			
	CT1	WS1			
	CBM1	VS1/VS2 (300 sf)			
ROOM 8	MAS1	SNK1 X1			
	MAS3	MISC1			
	CT1	WS1			
	CBM1	VS1/VS2 (300 sf)			
ROOM 9	MAS1	SNK1 X1			
	MAS3	MISC1			
	CT1	WS1			
	CBM1	VS1/VS2 (300 sf)			
ROOM 10	MAS1	SNK1 X1			
	MAS3	MISC1			
	CT1	WS1			
	CBM1	VS1/VS2 (300 sf)			
ROOM 11	MAS1	SNK1 X2			
	MAS3	MISC1			
	CT1	WS1			
	CBM1	VS1/VS2 (300 sf)			
ROOM 12	MAS1	SNK1 X1			
	MAS3	MISC1			
	CT1	WS1			
	CBM1	VS1/VS2 (300 sf)			
SPECED	MAS2	MISC1			
	MAS3	WS1			
	CT1	CBM2			
	CBM1				
ROOM 13	MAS1	SNK1 X1			
	MAS2	WS1			
	CT1	VS1/VS2 (300 sf)			
	CBM1				

KITCHEN	MAS5	SM1/WS4 (1200 sf)
	WS1	VS1 (MAS5 under VS- 800 sf)
ABOVE CEILING TILE OUTSIDE KITCHEN		
	TS1	
	TS2	
CUSTODIAN OFFICE		
ACROSS FROM	WS1	CBM1
ROOM 6	CT1	VS1 (300 sf)
TUNNELS - NOT ACCESSIBLE		

CLIENT: V Environmental	SITE: OSBORNE BLVD DENO	RELINQUISHED BY: <u>AS</u>
ADDRESS: PO BOX 819	ADDRESS: 225 CENTER AVE	DATE / TIME:
Hayden ID 85835	LEAVENWORTH WA	RECEIVED BY: <u>7/20/20</u>
TELEPHONE: 253-939-9369	INSPECTOR: COCOLE SENG	DATE / TIME:
EMAIL:	DATE SAMPLED: July 16 th 2020	

SAMPLE NO.	LAB NO.	MATERIAL DESCRIPTION	MATERIAL ID	LAYER AND SUBSTRATE	LOCATION OF MATERIAL	QTY.	TREAT	%	TYPE	OTHER FIBERS
01	19	CARPET MASTIC	543	concrete	School Entry					
02	20	CARPET MASTIC	544	concrete	ADMIN					
03	21	VINYL SHEETING GRAY ⁵⁴⁵ VINYL SHEETING YELLOW ⁵⁴⁶	US1 US2	concrete	Closet across from principal		108		60"	
04	22	Foam INSULATION ⁵⁴⁷	INS1		principal					
05	23	Ceiling TIE ⁵⁴⁹	CT1		principal					
06	24	VINYL PAPER mastic WALLBOARD ⁵⁴⁹ ⁵⁵⁰ ⁵⁵¹	MISC1		ADMIN					
07	25	2" GUE BASE yellow mastic ⁵⁵² ⁵⁵³	CBM1		↓					
08	26	CERAMIC TILE CRACKING GROUT ⁵⁵⁴ ⁵⁵⁵ ⁵⁵⁶	CRT1		ADMIN GYM ROOM 160					

CLIENT: V ENVIRONMENTAL	SITE: OSBORNE ELEM DEMO	RELINQUISHED BY: AS
ADDRESS: PO BOX 819	ADDRESS: 225 CENTRAL AVE	DATE / TIME:
HOYDEN ID 83835	LEAVENWORTH WA	RECEIVED BY: 7/20/20
TELEPHONE: 253-939-9369	INSPECTOR: CAROL SENG	DATE / TIME:
EMAIL:	DATE SAMPLED: JULY 16-17, 2020	

SAMPLE NO.	LAB NO.	MATERIAL DESCRIPTION	MATERIAL ID	LAYER AND SUBSTRATE	LOCATION OF MATERIAL	QTY.	TREAT	%	TYPE	OTHER FIBERS
09	27	CERAMIC TILE GROUT MASTIC 1x1	1147 557 558		ADMIN	FLOOR	25 sf			
10	28	BLACK JUNK UNDERCUTTING	559		NURSE					
11	29	JOINT COMPOUND IN WALL BOARD (WHITE)	560 561		ADMIN					
12	30	GLUE GROUT	562 563		ENTR HALL WALL					
13	31	CERAMIC TILE BROWN GROUT	564 565		BATHROOMS	1	7 walls			
14	32	JOINT COMPOUND WALL BOARD (BROWN)	566 567		↓		7 ceilings			
15	33	GREEN BOARD DARK BROWN MASTIC	568 569		SPEED					
16	34	2" CONE BASE YELLOW MASTIC	570 571		SPEED					


BROWN MASTIC 572
BROWN MASTIC 573

CLIENT: V ENVIRONMENTAL	SITE: OSBORN BLVD DENV	RELINQUISHED BY: <u>AS</u>
ADDRESS: PO BOX 819	ADDRESS: 225 CENTRAL AVE	DATE / TIME:
HOYDEN ID 83835	LEAVENWORTH WA	
TELEPHONE: 253-939-9369	INSPECTOR: COOKE SENG	RECEIVED BY: <u>7/20/20</u>
EMAIL:	DATE SAMPLED: JULY 16 th 2020	DATE / TIME:

SAMPLE NO.	LAB NO.	MATERIAL DESCRIPTION	MATERIAL ID	LAYER AND SUBSTRATE	LOCATION OF MATERIAL	QTY.	TREAT	%	TYPE	OTHER FIBERS
17	35	URINS COATING MASTIC	1147 574 575		SPRINK					
18	36	MASTIC FLOOR FLEEK	576 577	US1	KITCHEN	800 sq				
19	37	SKIM COAT GREEN BOARD VAPOR BARRIER	578 579 580	WOOD	KITCHEN	1200				
20	38	SKIM COAT	581							
21	39	SKIM COAT	582							
22	40	NON SEP VINYL FLOORING 1 PAO ON CONCRETE	583 584		Gym Floor					
23	41	2" GRAY PAVE BASE YELLOW MASTIC	585 586			3600 sq				
24	42	JC UNILBOARD	587 588	panel	Gym	HEIGHT 20'				

MASTIC

UNITS 4800

CLIENT: V ENVIRONMENTAL	SITE: OSBORNE BLVD DENO	RELINQUISHED BY: 
ADDRESS: PO BOX 819	ADDRESS: 225 CENTRAL AVE	DATE / TIME:
HOYDEN ID 83835	LEAVENWORTH WA	
		RECEIVED BY: 7/20/20
TELEPHONE: 253-939-9369	INSPECTOR: CORRIE SENA	DATE / TIME:
EMAIL:	DATE SAMPLED: JULY 16 th 2020	

[illegible]

CLIENT: V ENVIRONMENTAL	SITE: OSBORNE BLVD DEMO	RELINQUISHED BY: <u>AS</u>
ADDRESS: PO BOX 819	ADDRESS: 225 CENTRAL AVE	DATE / TIME:
HOYDEN ID 83835	LEAVENWORTH WA	RECEIVED BY: <u>7/20/20</u>
TELEPHONE: 253-939-9369	INSPECTOR: CAROLE SENA	DATE / TIME:
EMAIL:	DATE SAMPLED: JULY 16 th 2020	

SAMPLE NO.	LAB NO.	MATERIAL DESCRIPTION	MATERIAL ID	LAYER AND SUBSTRATE	LOCATION OF MATERIAL	QTY.	TREAT	%	TYPE	OTHER FIBERS
36	54	INTERIOR SKIM COAT GYPSUM BOARD ACRYLIC VAPOR BARRIER WALLBOARD	WS6 605 606 607 608 609		INTERIOR CEILING 9 WALL	offset				
37	55	SKIM COAT SOFFIT & WALLS	WS2 610 611		INTERIOR WALL & SOFFIT	offset				
38	56		612 613							
39	57		614 615							
40	58		616 617							
41	59		618 619							
42	60		620 621							



Osborn Elementary School
Hazardous Materials Demolition Survey

ATTACHMENT 2
Lead Paint Findings and Recommendations

Component Table
Calibration Sheet
Performance Characterization Sheet (PCS)



Osborn Elementary School
Hazardous Materials Demolition Survey

LEAD PAINT COMPONENT TABLE

A total of forty-six (46) samples consisting of various suspect materials were processed regarding main them construction components for lead in construction. Various painted cabinets contained measurable concentrations of lead paint. See attached Table.

Osborne Elementary

Lead Based Paint Limited Assessment Report

Index	Room	Substrate	Component	Color	PbC	Result
1630			CALIBRATION	White	0.00	Pass
1631			CALIBRATION	White	0.00	Pass
1632			CALIBRATION	White	0.00	Pass
1633			CALIBRATION	Red	1.00	Pass
1634			CALIBRATION	Red	1.00	Pass
1635			CALIBRATION	Red	1.00	Pass
1636	Front Entrance	Metal	Door	Red	0.00	Negative
1637	Front Entrance	Wood	Bench	Tan	0.00	Negative
1638	Admin Offices	Wood	Window Frame	White	0.00	Negative
1639	Admin Offices	Wallboard	Wall	Beige	0.00	Negative
1640	Admin Offices	Panelboard	Wall	Blue	0.00	Negative
1641	Restroom 1 / Girls	Wallboard	Wall	Beige	0.00	Negative
1642	Front Door Interior	Metal	Frame	Red	0.00	Negative
1643	Nurses Office	MDF	Cabinets	Red	0.00	Negative
1644	Health Room	Wood	Door	Brown Stain	0.00	Negative
1645	Health Room	Metal	Window Frame	Black	0.00	Negative
1646	Health Room	Wood	Bed	Blue	0.00	Negative
1647	Room 1	Wood	Door	Blue	0.00	Negative
1648	Room 1	Metal	Window Frame	Blue	0.00	Negative
1649	Room 2	Wood	Door Frame	Maroon	0.00	Negative
1650	Room 5	MDF	Cabinets	Orange	0.80	Positive
1651	Room 5	MDF	Cabinets	Dark Red	0.60	Positive
1652	Room 5	MDF	Cabinets	Light Red	0.40	Positive
1653	Room 5	MDF	Cabinets	Maroon	0.00	Negative
1654	Room 6	MDF	Cabinets	Lime Green	0.00	Negative
1655	Room 6	MDF	Cabinets	Blue	0.00	Negative
1656	Room 6	MDF	Cabinets	Teal	0.10	Positive
1657	Room 6	MDF	Cabinets	Purple	0.00	Negative

Osborne Elementary

Lead Based Paint Limited Assessment Report

Index	Room	Substrate	Component	Color	PbC	Result
1658	Room 7	MDF	Cabinets	Dark Red	0.50	Positive
1659	Room 7	MDF	Cabinets	Maroon	0.00	Negative
1660	Room 7	MDF	Cabinets	Orange	0.90	Positive
1661	Room 7	MDF	Cabinets	Light Red	0.50	Positive
1662	Room 10	MDF	Cabinets	Lime Green	0.00	Negative
1663	Room 11	Metal	Fire Door - Exterior	Off White	0.00	Negative
1664	Multi Purpose Room	Walls	Wood	Brown	0.00	Negative
1665	Multi Purpose Room	Metal	Door Jam	Off White	0.00	Negative
1666	Multi Purpose Room	Wood	Door	Off White	0.00	Negative
1667	Multi Purpose Room	Metal	Exterior Door	Red	0.00	Negative
1668	Custodian Closet	Wallboard	Wall	Beige	0.00	Negative
1669	Exterior	Stucco	Wall	White	0.00	Negative
1670	Exterior	Stucco	Wall	Green	0.00	Negative
1671	Exterior	Stucco	Wall	Blue	0.00	Negative
1672	Exterior - Front Entry	Stucco	Wall	White	0.00	Negative
1673	Exterior - Front Entry	Stucco	Wall	Blue	0.00	Negative
1674	Exterior - Front Entry	Metal	Beam	White	0.00	Negative
1675	Exterior - Front Entry	Metal	Door	Blue	0.00	Negative
1676	Exterior - Front Entry	Metal	Window Frame	Black	0.00	Negative
1677	Covered Play Area	Metal	Beam	Red	0.00	Negative
1678	Roof	Metal	Siding	Red	0.00	Negative
1679	Roof	Metal	Roof	Red	0.00	Negative
1680	Roof	Metal	Roof	Orange	0.00	Negative
1681	Roof	Metal	Roof	White	0.00	Negative
1682			CALIBRATION	White	0.00	Negative
1683			CALIBRATION	White	0.00	Negative
1684			CALIBRATION	White	0.00	Negative
1685			CALIBRATION	Red	1.00	Pass
1686			CALIBRATION	Red	1.00	Pass
1687			CALIBRATION	Red	1.00	Pass

Performance Characteristic Sheet

EFFECTIVE DATE: September 24, 2004

EDITION NO.: 1

MANUFACTURER AND MODEL:

Make: Niton LLC

Tested Model: XLp 300

Source: ^{109}Cd

Note: This PCS is also applicable to the equivalent model variations indicated below, for the Lead-in-Paint K+L variable reading time mode, in the XLi and XLp series:

XLi 300A, XLi 301A, XLi 302A and XLi 303A.

XLp 300A, XLp 301A, XLp 302A and XLp 303A.

XLi 700A, XLi 701A, XLi 702A and XLi 703A.

XLp 700A, XLp 701A, XLp 702A, and XLp 703A.

Note: The XLi and XLp versions refer to the shape of the handle part of the instrument. The differences in the model numbers reflect other modes available, in addition to Lead-in-Paint modes. The manufacturer states that specifications for these instruments are identical for the source, detector, and detector electronics relative to the Lead-in-Paint mode.

FIELD OPERATION GUIDANCE

OPERATING PARAMETERS:

Lead-in-Paint K+L variable reading time mode.

XRF CALIBRATION CHECK LIMITS:

0.8 to 1.2 mg/cm² (inclusive)

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm² in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm² film).

If readings are outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instruments into control before XRF testing proceeds.

SUBSTRATE CORRECTION:

For XRF results using Lead-in-Paint K+L variable reading time mode, substrate correction is not needed for:

Brick, Concrete, Drywall, Metal, Plaster, and Wood

INCONCLUSIVE RANGE OR THRESHOLD:

K+L MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm ²)
Results not corrected for substrate bias on any substrate	Brick	1.0
	Concrete	1.0
	Drywall	1.0
	Metal	1.0
	Plaster	1.0
	Wood	1.0

BACKGROUND INFORMATION

EVALUATION DATA SOURCE AND DATE:

This sheet is supplemental information to be used in conjunction with Chapter 7 of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* ("HUD Guidelines"). Performance parameters shown on this sheet are calculated from the EPA/HUD evaluation using archived building components. Testing was conducted in August 2004 on 133 testing combinations. The instruments that were used to perform the testing had new sources; one instrument's was installed in November 2003 with 40 mCi initial strength, and the other's was installed June 2004 with 40 mCi initial strength.

OPERATING PARAMETERS:

Performance parameters shown in this sheet are applicable only when properly operating the instrument using the manufacturer's instructions and procedures described in Chapter 7 of the HUD Guidelines.

SUBSTRATE CORRECTION VALUE COMPUTATION:

Substrate correction is not needed for brick, concrete, drywall, metal, plaster or wood when using Lead-in-Paint K+L variable reading time mode, the normal operating mode for these instruments. If substrate correction is desired, refer to Chapter 7 of the HUD Guidelines for guidance on correcting XRF results for substrate bias.

EVALUATING THE QUALITY OF XRF TESTING:

Randomly select ten testing combinations for retesting from each house or from two randomly selected units in multifamily housing. Use the K+L variable time mode readings.

Conduct XRF retesting at the ten testing combinations selected for retesting.

Determine if the XRF testing in the units or house passed or failed the test by applying the steps below.

Compute the Retest Tolerance Limit by the following steps:

Determine XRF results for the original and retest XRF readings. Do not correct the original or retest results for substrate bias. In single-family housing a result is defined as the average of three readings. In multifamily housing, a result is a single reading. Therefore, there will be ten original and ten retest XRF results for each house or for the two selected units.

Calculate the average of the original XRF result and retest XRF result for each testing combination.

Square the average for each testing combination.

Add the ten squared averages together. Call this quantity C.

Multiply the number C by 0.0072. Call this quantity D.

Add the number 0.032 to D. Call this quantity E.

Take the square root of E. Call this quantity F.

Multiply F by 1.645. The result is the Retest Tolerance Limit.

Compute the average of all ten original XRF results.

Compute the average of all ten re-test XRF results.

Find the absolute difference of the two averages.

If the difference is less than the Retest Tolerance Limit, the inspection has passed the retest. If the difference of the overall averages equals or exceeds the Retest Tolerance Limit, this procedure should be repeated with ten new testing combinations. If the difference of the overall averages is equal to or greater than the Retest Tolerance Limit a second time, then the inspection should be considered deficient.

Use of this procedure is estimated to produce a spurious result approximately 1% of the time. That is, results of this procedure will call for further examination when no examination is warranted in approximately 1 out of 100 dwelling units tested.

TESTING TIMES:

For the Lead-in-Paint K+L variable reading time mode, the instrument continues to read until it is moved away from the testing surface, terminated by the user, or the instrument software indicates the reading is complete. The following table provides testing time information for this testing mode. The times have been adjusted for source decay, normalized to the initial source strengths as noted above. Source strength and type of substrate will affect actual testing times. At the time of testing, the instruments had source strengths of 26.6 and 36.6 mCi.

Testing Times Using K+L Reading Mode (Seconds)						
	All Data			Median for laboratory-measured lead levels (mg/cm ²)		
Substrate	25 th Percentile	Median	75 th Percentile	Pb < 0.25	0.25 ≤ Pb < 1.0	1.0 ≤ Pb
Wood Drywall	4	11	19	11	15	11
Metal	4	12	18	9	12	14
Brick Concrete Plaster	8	16	22	15	18	16

CLASSIFICATION RESULTS:

XRF results are classified as positive if they are greater than or equal to the threshold, and negative if they are less than the threshold.

DOCUMENTATION:

A document titled *Methodology for XRF Performance Characteristic Sheets* provides an explanation of the statistical methodology used to construct the data in the sheets, and provides empirical results from using the recommended inconclusive ranges or thresholds for specific XRF instruments. For a copy of this document call the National Lead Information Center Clearinghouse at 1-800-424-LEAD.

This XRF Performance Characteristic Sheet was developed by the Midwest Research Institute (MRI) and QuanTech, Inc., under a contract between MRI and the XRF manufacturer. HUD has determined that the information provided here is acceptable when used as guidance in conjunction with Chapter 7, Lead-Based Paint Inspection, of HUD's *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*.

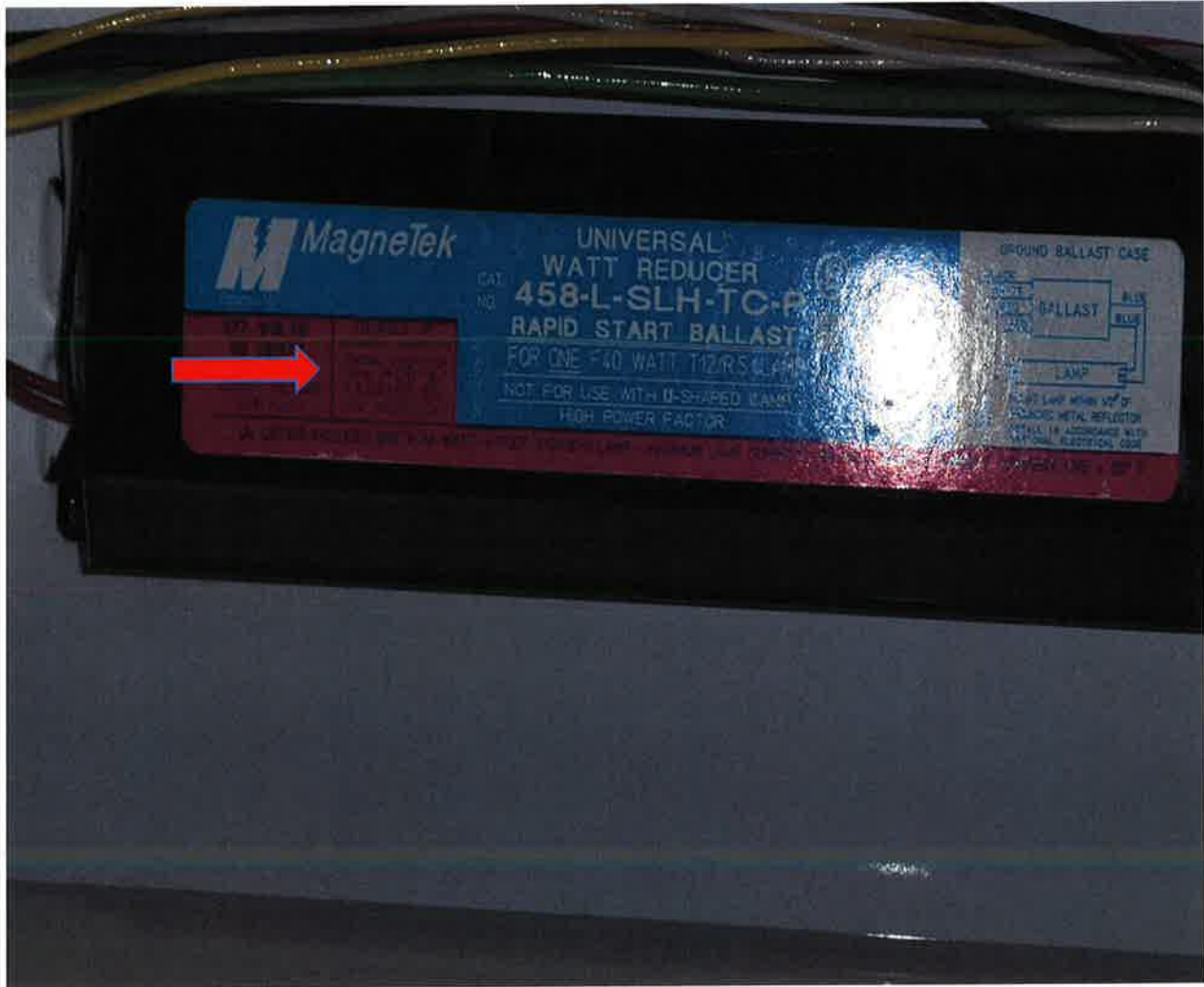


Osborn Elementary School
Hazardous Materials Demolition Survey

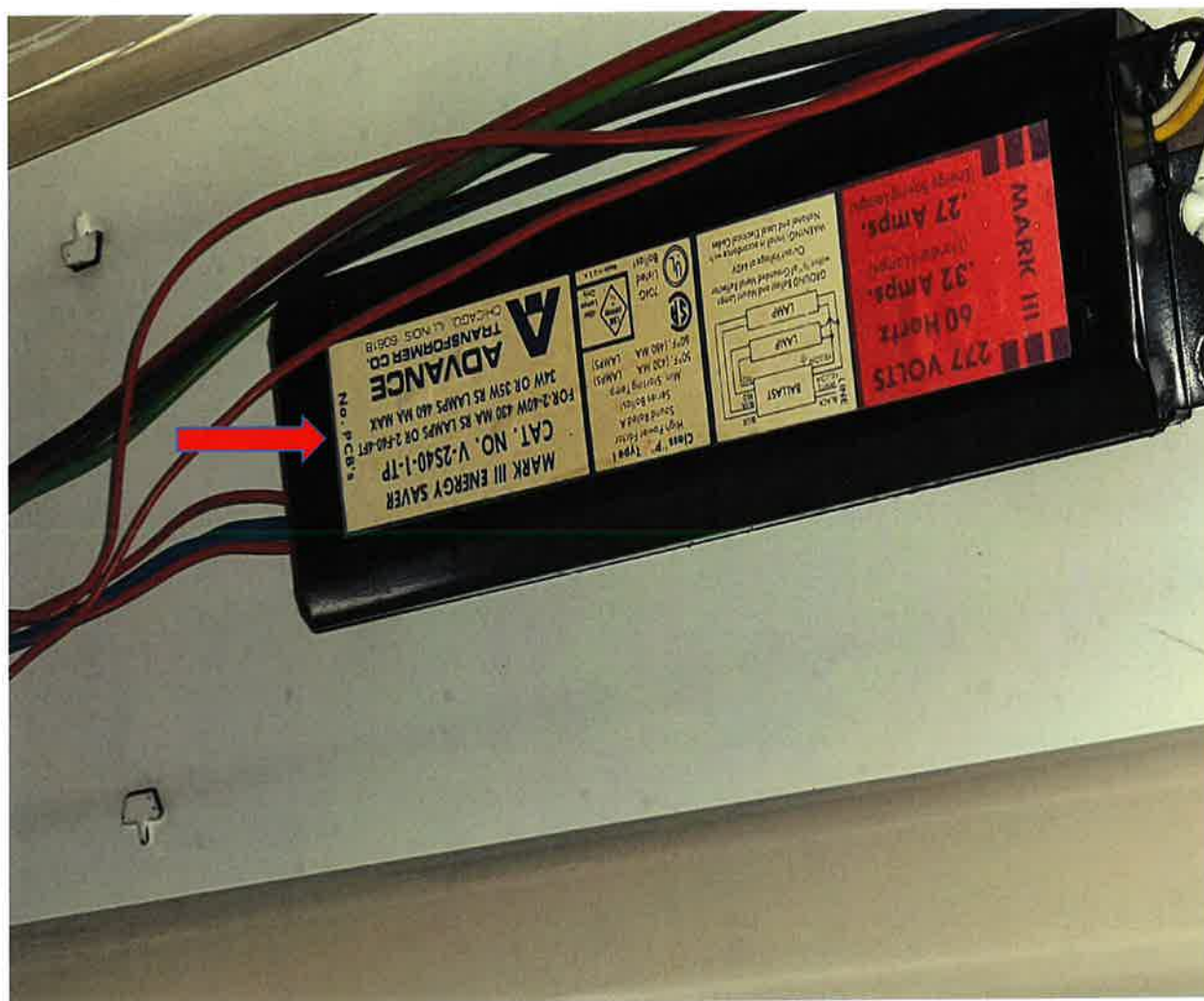
ATTACHMENT 3
PCB and Fluorescent Fixtures Findings
and Recommendations

Fluorescent Light Ballasts

Fluorescent light ballasts were randomly examined throughout the buildings. The ballasts of these fixtures we identified were either electronic or ballasts were marked as “No PCB”



Ballast marked as “No PCB”



Ballast marked as "No PCB"

Fluorescent Light Tubes



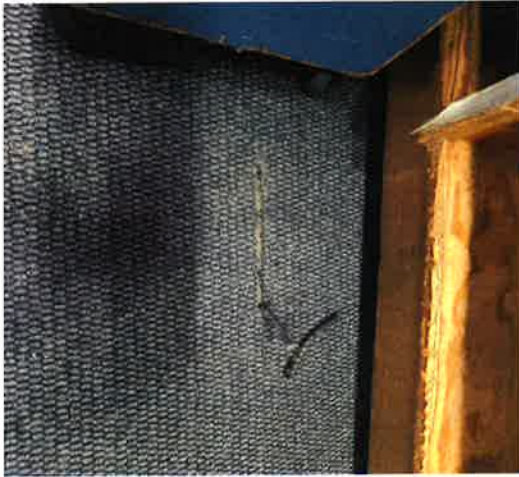
Unless identified as "Truefit LED Tube, we estimated 637 fluorescent bulbs as mercury containing.



Osborn Elementary School
Hazardous Materials Demolition Survey

ATTACHMENT 4
Photographs

SAMPLE #1
MAS1



SAMPLE #2
MAS2



SAMPLE #3
VS1/VS2



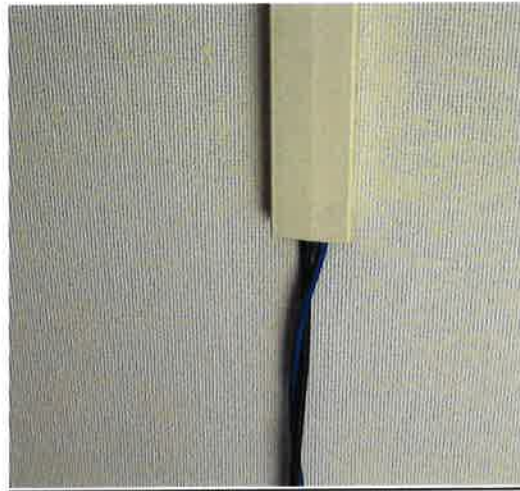
SAMPLE #4
INS1



SAMPLE #5
CT1



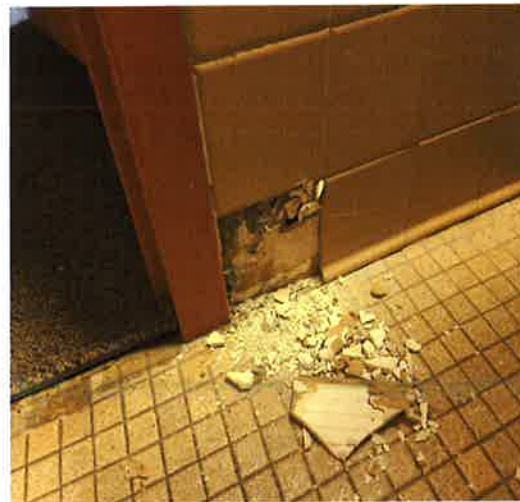
SAMPLE #6
MISC1



SAMPLE #7
CBM1



SAMPLE #8
CRT1



SAMPLE #9
CRT2



SAMPLE #10
SNK1



SAMPLE #11
WS1



SAMPLE #12
WS2



SAMPLE #13
CRT3



SAMPLE #14
WS3



SAMPLE #15
MAS3



SAMPLE #16
CBM2



SAMPLE #17
MAS4



SAMPLE #18
MAS5



SAMPLE #19
WS4



SAMPLE #20, 21
SM1



SAMPLE #22
MISC2



SAMPLE #23
CBM3



SAMPLE #24
WS5



SAMPLE #25, 26, 27
TSI1



SAMPLE #28, 29, 30
TSI2



SAMPLE #31
VS1



SAMPLE #32
VS2



SAMPLE #33, 35
CLK1, CLK2



SAMPLE #35
CLK2



SAMPLE #36
WS6



SAMPLE #37, 38, 39, 40, 41, 42, 43
SM2



SAMPLE #44
CLK3





Osborn Elementary School
Hazardous Materials Demolition Survey

ATTACHMENT 5
Certifications

AHERA

BUILDING INSPECTOR REFRESHER CERTIFICATE

This is to certify that

Nate Reynolds

has attended and satisfactorily completed all requirements to
maintain accreditation as an AHERA Building Inspector in
accordance with the Toxic Substance Control
Act Title (Section 206) and 40 CFR 763.

Accreditation No. BI/R-NES-090319-08

Course Date: Sept. 3rd, 2019
Valid through: Sept. 3rd, 2020


Patricia "PJ" Journey

NOW Environmental Services, Inc.
34004 – 9th Avenue South, Suite # 12
Federal Way, Washington 98003
(253) 927-5233

AHERA

BUILDING INSPECTOR REFRESHER CERTIFICATE

This is to certify that

Carole A. Seng

has attended and satisfactorily completed all requirements to
maintain accreditation as an AHERA Building Inspector in
accordance with the Toxic Substance Control
Act Title (Section 206) and 40 CFR 763.

Accreditation No. BI/R-NES-040120-01

Course Date: April 1, 2020

Valid through: March 31, 2021


Nelson Miles

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