

July 30, 2021

Transmitted via e-mail: yopbk@hotmail.com

Dear Mr. BK Lee:

PIONEER Technologies Corporation is submitting the attached Hazardous Materials Building Survey for the Jack's Auto site, located at 1400 Bethel Street NE, in Olympia, Washington. Landau Associates, Inc. prepared this report following the methods and procedures listed in our United States Environmental Protection Agency (USEPA)-approved Hazardous Materials Assessment Sampling and Analysis Plan, dated May 25, 2021. This Hazardous Materials Building Survey report was prepared using the City of Olympia's USEPA Brownfield Assessment Grant Funds, Cooperative Agreement # BF01J66201.

Sampling and analysis of suspect materials identified three asbestos containing materials (ACMs) in the on-site building: black asphaltic material on the canopy and building roofs, silver paint on the canopy and building roofs, and white woven gaskets inside the incandescent light fixtures. The ACMs are not considered friable under Asbestos Hazard Emergency Response Act (AHERA). Prior to building demolition, the materials should be abated as a Class I Asbestos Project under AHERA and in accordance with appropriate state and federal regulations.

Additionally, lead was detected in 20 paint chip samples. During demolition activities, precautions should be taken to address worker safety (particularly, generation of dust through cutting, sanding, grinding, or other destructive activities on materials coated with lead paint should be avoided), to protect human health and the environment, and to dispose of demolition debris in accordance with applicable state and federal regulations.

The findings presented above are intended to provide a summary of the pertinent findings of the enclosed report. It should not be substituted in lieu of reading the entire report. The entire report must be read in order to fully understand the environmental concerns associated with the Property.

Please do not hesitate to contact me if you have any questions or comments about this report.

Respectfully,



Joel Hecker, LG, LHG
Senior Scientist/Geologist

Enclosure

cc: Mike Reid, City of Olympia (electronic copy only)
Leonard Bauer, City of Olympia (electronic copy only)
Susan Morales, USEPA (electronic copy only)

Report
Hazardous Building Materials Survey
Jack's Auto Service Station
Olympia, Washington

July 26, 2021

Prepared for

Pioneer Technologies Corporation
5205 Corporate Center Court SE, Suite A
Olympia, Washington



155 NE 100th St, Ste 302
Seattle, WA 98125
206.631.8680

Hazardous Building Materials Survey Report Jack's Auto Service Station Olympia, Washington

This document was prepared by, or under the direct supervision of, the technical professionals noted below.

Document prepared by:  Chris Sommer, EIT
Primary Author

Document reviewed by:  Derek Pulvino
Quality Reviewer

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Project Coordinator: Christopher C. Young

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TABLE OF CONTENTS

	<u>Page</u>
LIST OF ABBREVIATIONS AND ACRONYMS	v
1.0 INTRODUCTION	1-1
2.0 REGULATORY COMPLIANCE	2-1
2.1 Asbestos-Containing Material	2-1
2.2 Lead in Paint	2-1
2.3 Polychlorinated Biphenyls	2-2
2.4 Mercury	2-2
3.0 HAZARDOUS BUILDING MATERIALS SURVEY AND SAMPLING	3-1
3.1 Asbestos-Containing Material	3-1
3.2 Lead in Paint	3-2
3.3 Polychlorinated Biphenyl- and Mercury-Containing Equipment	3-2
4.0 RESULTS OF HAZARDOUS BUILDING MATERIALS SURVEY	4-1
4.1 Asbestos-Containing Material	4-1
4.2 Lead in Paint	4-1
4.3 Polychlorinated Biphenyl- and Mercury-Containing Equipment	4-2
5.0 CONCLUSIONS AND RECOMMENDATIONS	5-1
6.0 USE OF THIS REPORT	6-1

FIGURES

<u>Figure</u>	<u>Title</u>
1	Vicinity Map
2	Sampling Locations

TABLES

<u>Table</u>	<u>Title</u>
1	Analytical Results for Asbestos Samples
2	Analytical Results for Lead Paint Chip Samples

APPENDICES

<u>Appendix</u>	<u>Title</u>
A	AHERA Building Inspector Certificates
B	Laboratory Analytical Reports
C	Selected Site Photographs

LIST OF ABBREVIATIONS AND ACRONYMS

ACM	asbestos-containing material
AHERA	Asbestos Hazard Emergency Response Act
CFR	Code of Federal Regulations
EPA	US Environmental Protection Agency
HBMS	hazardous building materials survey
HUD	US Department of Housing and Urban Development
Jack's Auto	Jack's Auto Service Station
LAI	Landau Associates, Inc.
LCP	lead-containing paint
mg/kg	milligrams per kilogram
NVL	NVL Labs
PCB	polychlorinated biphenyl
Pioneer	Pioneer Technologies Corporation
TSCA	Toxic Substances Control Act
WAC	Washington Administrative Code

1.0 INTRODUCTION

At the request of Pioneer Technologies Corporation (Pioneer), Landau Associates, Inc. (LAI) prepared this report, which summarizes the hazardous building materials survey (HBMS; i.e., good-faith inspection) conducted in support of the potential future demolition or renovation of the Jack's Auto Service Station (Jack's Auto; subject property) located in Olympia, Washington (Figure 1). LAI conducted the HBMS at the subject property in accordance with the June 22, 2021 scope of services approved by Pioneer. The HBMS included an asbestos-containing material (ACM) survey, lead-containing paint (LCP) survey, and polychlorinated biphenyl (PCB)- and mercury-containing equipment survey of the interior and exterior of the subject property building. Materials that are not a part of, or associated with, the specified project area, or will not be disturbed during the replacement work, were not sampled at this time and are not discussed in this HBMS report.

This report describes LAI's survey and sampling procedures and presents the findings of the HBMS.

2.0 REGULATORY COMPLIANCE

The following subsections discuss regulatory compliance related to the potential presence of ACM and LCP.

2.1 Asbestos-Containing Material

The Asbestos Hazard Emergency Response Act (AHERA), 40 Code of Federal Regulations (CFR) 763, is the primary governing regulation for conducting asbestos surveys. AHERA defines suspect ACM and specifies the minimum number of samples to be collected and analyzed. AHERA was originally enacted for school buildings; however, since 1994, it has been applied to public and commercial buildings by the Asbestos School Hazard Abatement Reauthorization Act. The Occupational Safety and Health Administration and Washington Industrial Safety and Health Act worker protection regulations, specifically 29 CFR 1926.1101(k) and Washington Administrative Code (WAC) 296-62-077, also have incorporated AHERA regulations for demolition and renovation projects.

The Olympic Region Clean Air Agency, whose jurisdiction includes Olympia, Washington, recognizes asbestos as a serious health hazard and has developed asbestos survey requirements in its Regulation 1 Rule 6.3.2. This rule includes definitions, discussion of included controlled and regulated substances, notification requirements, emergency procedures, asbestos removal requirements prior to renovation or demolition, and procedures for asbestos projects.

2.2 Lead in Paint

Worker and environmental protection requirements apply to all construction activities that may disturb LCP. For the purposes of this report, LCP is defined as paint or finishes that include detectable lead concentrations. In accordance with Washington State regulations, precautions must be taken during demolition and remodeling to address worker safety and to protect human health and the environment. Worker exposure, public health, and waste characterization are issues of concern when working with LCP during building demolition or remodeling. In situations where workers may be exposed to lead, it is the employer's responsibility to ensure that work practices are in compliance with the US Environmental Protection Agency's (EPA's) Lead Renovation, Repair, and Painting rule, 40 CFR 745. The property owner(s) should ensure that the public does not have access to designated work areas during demolition or remodeling activities.

Although not necessarily applicable to the subject property, the US Department of Housing and Urban Development (HUD) defines a "lead-based paint" as those finishes that include greater than 0.5 percent lead by weight (or 5,000 milligrams per kilogram [mg/kg]). Depending on the leachability of the lead from building components finished with LCP, special waste stream and disposal management practices may also be necessary.

2.3 Polychlorinated Biphenyls

PCBs are a federally regulated hazardous material. The disposal of PCBs is regulated by the EPA under the Toxic Substances Control Act (TSCA). Building materials and equipment with PCB concentrations greater than 50 parts per million (50 mg/kg for solids, or 50 milligrams per liter for liquids) are considered PCB bulk product waste and must be disposed of in accordance with TSCA guidelines (40 CFR 761). The EPA requires that all PCB bulk product waste be removed by a certified abatement company. Additionally, fluorescent light ballasts manufactured before 1979 may contain PCBs and must be identified and segregated prior to disposal of the fluorescent light fixture.

2.4 Mercury

Mercury is a federally regulated hazardous material under the Resource Conservation and Recovery Act. The disposal of mercury-containing equipment is regulated by the EPA under the Universal Waste Program (40 CFR 273). Universal wastes, including mercury-containing equipment, are subject to provisions intended to facilitate their management, recycling, and/or treatment and disposal. Thermostats, switches, compact fluorescent light tubes, and other electrical equipment could contain mercury. Before a structure is demolished, mercury-containing equipment must be identified, segregated, and transported to a facility that is permitted, or otherwise designated, to receive universal waste.

3.0 HAZARDOUS BUILDING MATERIALS SURVEY AND SAMPLING

On July 1, 2021, LAI conducted an HBMS at the subject property to screen for ACM and LCP. LAI completed the following services:

- Preparing a site-specific health and safety plan.
- Conducting an inventory of suspect ACM by AHERA-certified building inspectors (certificates provided in Appendix A).
- Sampling suspect ACM and LCP identified in or on the subject property building.
- Identifying locations and approximate quantities of suspect ACM.
- Conducting an inventory of PCB- and mercury-containing electrical equipment.
- Submitting suspect ACM and LCP paint chip samples to a laboratory accredited by the National Voluntary Laboratory Accreditation Program. Suspect ACM samples were analyzed for asbestos using polarized light microscopy with dispersion staining by EPA Method 600/R-93-116, and paint chip samples were analyzed for lead using EPA Method 7000B.
- Preparing this report, which summarizes the findings and conclusions of the HBMS.

3.1 Asbestos-Containing Material

The purpose of the asbestos survey described in this report was to evaluate potential ACM in the Jack's Auto building structure. The survey was conducted in compliance with the asbestos good-faith inspection requirements promulgated in WAC 296-62-077, which stipulate that the building owner must identify and properly dispose of ACM encountered during demolition or renovation activities.

Samples were collected using a clean knife or chisel. Each material (to the extent feasible) was collected for analysis and placed in a laboratory-provided bag and labeled with a sample identification number. Prior to sampling potentially friable materials, the sampler donned a respirator and wetted the sampling area with distilled water. Between sampling locations, sampling equipment was wiped clean with a paper towel. After sample collection, sample descriptions and estimated quantities of the suspect ACM were recorded on the field sample inventory application; this information is provided in Table 1.

AHERA specifies that only one positive asbestos result is needed for a suspect material to be designated as an ACM. It also specifies the minimum number of samples that must be collected and analyzed to establish that a suspect ACM is non-ACM, based on the material type. The three material types recognized by AHERA are surfacing materials, thermal system insulation, and miscellaneous materials.

Materials sampled during this HBMS included roofing material, building insulation, window sealant and glazing, electrical gaskets, vinyl sheet flooring, water pipe insulation, exhaust thimble insulation, and plumbing gaskets, among other materials. At least two samples of each potential or suspect ACM type were collected from every homogeneous area.

LAI collected 35 samples of suspect ACM in accordance with AHERA sampling protocols. The samples were submitted to NVL Labs (NVL) for analysis. Given the types of materials identified and the associated asbestos concentrations, none of these samples were reanalyzed by point-count methodology.

3.2 Lead in Paint

An LCP survey was conducted to assess the lead content of various types of paint in the interior and exterior of the Jack's Auto building structure. The survey included collecting representative samples from each discrete paint type observed. Paint samples were collected using a clean razor blade. Each paint type (to the extent feasible) was submitted for analysis and placed in laboratory-provided bags. Table 2 describes the types of paint identified and the locations sampled.

In several areas, paint chip samples could be collected only with multiple layers of paint. Given the difficulty of separating multiple layers of paint, multiple layers collected from the same location were considered to be a single sample. There were many colors of spray paint on the exterior of the building due to what appeared to be vandalism. In areas where spray paint was present, the underlying paint layer was the only layer that was considered when determining homogeneous areas of paint. For example, if brown and green spray paint were found on top of the same underlying white paint layer, only one sample was taken from this area to target the underlying white paint layer. This approach is justified because the underlying paint layer is likely to contain higher concentrations of lead than the newer spray paints and would likely contribute to elevated laboratory readings regardless of the color of spray paint on top.

Twenty-one paint chip samples were collected from the subject property. The samples were submitted to NVL for analysis.

3.3 Polychlorinated Biphenyl- and Mercury-Containing Equipment

A survey was conducted to locate and inventory any PCB- or mercury-containing equipment in and around the subject property building. PCBs could potentially be found in fluorescent light ballasts and transformers, among other electrical equipment. Mercury could potentially be found in fluorescent light tubes, thermostats, and switches, among other electrical equipment. Any electrical equipment that was confirmed to contain or could contain PCBs or mercury was inventoried during this survey.

4.0 RESULTS OF HAZARDOUS BUILDING MATERIALS SURVEY

Laboratory analytical results for the suspect asbestos and paint chip samples are discussed in the following subsections. The results are summarized in Tables 1 and 2, and the laboratory analytical reports are provided in Appendix B.

4.1 Asbestos-Containing Material

Asbestos was detected in seven of the 35 suspect ACM samples collected during this HBMS. Table 1 summarizes the materials sampled and the analytical results. All suspect and confirmed ACM sampling locations are shown on Figure 2. Copies of the laboratory analytical reports are provided in Appendix B.

Asbestos was detected at concentrations greater than 1 percent (%) in seven samples, which represented three different materials on or within the subject property building. Based on the laboratory analytical results, the following materials are characterized as ACM:

- The black asphaltic roofing material (samples A1-1 and A1-3) on the canopy and main building roofs contains a maximum concentration of 5% chrysotile asbestos.
- The silver paint (samples A1-2, A1-3, and A2-2) associated with the black asphaltic tar roofing on the canopy and main building roofs contains a maximum concentration of 5% chrysotile asbestos.
- The white woven gaskets (samples A3-1 and A3-2) within the incandescent light fixtures (three total) that are attached to the interior and exterior of the building structure contain a maximum concentration of 81% chrysotile asbestos.

Locations from which samples tested positive for asbestos are shown in Appendix C and all ACM sampling locations are shown on Figure 2.

4.2 Lead in Paint

Lead was detected at concentrations above the laboratory reporting limit in 20 paint chip samples collected from the building structure. Nine of these paint chip samples would be considered lead-based paints as per the definition provided by HUD; these nine lead-based paints are noted with bolded text below.

- LP1-1: Silver paint on the canopy and main building roofs contained lead at a concentration of 380 mg/kg.
- **LP3-1**: White paint on the canopy roof wall contained lead at a concentration of **5,000 mg/kg**.
- **LP4-1**: Green paint on the building siding contained lead at a concentration of **9,100 mg/kg**.
- LP5-1: White paint on the canopy struts contained lead at a concentration of 3,100 mg/kg.
- LP6-1: Green paint on the canopy underside contained lead at a concentration of 2,500 mg/kg.

- **LP7-1:** Orange paint on the canopy underside contained lead at a concentration of **33,000 mg/kg**.
- **LP8-1:** Orange paint on the concrete medians contained lead at a concentration of **120,000 mg/kg**.
- **LP9-1:** Blue and gray paints on the concrete medians contained lead at a concentration of **6,700 mg/kg**.
- **LP10-1:** Blue and white paints on the building exterior contained lead at a concentration of 1,800 mg/kg.
- **LP11-1:** Brown and white paints on the building exterior contained lead at a concentration of 1,400 mg/kg.
- **LP12-1:** Yellow paint on the building exterior contained lead at a concentration of 1,400 mg/kg.
- **LP13-1:** Red and white paints on the canopy and main building roofs contained lead at a concentration of **110,000 mg/kg**.
- **LP14-1:** Red paint on the concrete building foundation contained lead at a concentration of **66,000 mg/kg**.
- **LP15-1:** Orange paint on the building exterior contained lead at a concentration of **59,000 mg/kg**.
- **LP16-1:** White paint on the building exterior contained lead at a concentration of 2,800 mg/kg.
- **LP17-1:** Gray and white paints on the interior walls contained lead at a concentration of 2,200 mg/kg.
- **LP18-1:** Gray, white, and red paints on the interior walls contained lead at a concentration of 2,400 mg/kg.
- **LP19-1:** Black paint on the interior office walls contained lead at a concentration of 1,900 mg/kg.
- **LP20-1:** Red paint on the interior office floors contained lead at a concentration of 830 mg/kg.
- **LP21-1:** Green paint on the interior office walls contained lead at a concentration of **6,400 mg/kg**.

Analytical results for LCP are summarized in Table 2. Locations from which samples tested positive for lead-based paint are shown in Appendix C and LCP sampling locations are shown on Figure 2. Copies of the laboratory analytical reports are provided in Appendix B.

4.3 Polychlorinated Biphenyl- and Mercury-Containing Equipment

The building inspector's visual inventory identified five fluorescent light fixtures containing fluorescent light tubes and fluorescent light ballasts in the garage area of the subject property building. The ballasts had "No PCBs" printed on them and are therefore assumed to not contain PCBs.

Mercury-containing equipment (thermostats, tilt switches, gauges, etc.) was not identified during the building inspector's visual survey. There were, however, several electrical panels and breaker boxes inside the building. There is a possibility that this electrical equipment may contain PCBs or mercury. Caution should be taken when demolishing the subject property building to ensure that electrical equipment is handled and disposed of in a manner that is appropriate for their contents.

5.0 CONCLUSIONS AND RECOMMENDATIONS

On July 1, 2021, LAI conducted an HBMS at the Jack's Auto Service Station in Olympia, Washington to screen for ACM, LCP, PCBs, and mercury in materials and equipment to be disturbed in the event of subsequent demolition or renovation efforts.

Sampling and analysis of suspect materials in the survey areas identified three ACMs in the planned project work areas: black asphaltic material on the canopy and building roofs, silver paint on the canopy and building roofs, and white woven gaskets inside the incandescent light fixtures. The materials are not considered friable under AHERA. LAI recommends that, prior to building demolition, the materials be abated as a Class I Asbestos Project under AHERA and in accordance with appropriate state and federal regulations.

The user should note that demolition and/or renovation activities by contractors may expose concealed suspect ACM. Contractors should be aware of the potential for concealed suspect ACM and prepare contingency plans for the handling of suspect ACM discovered during renovation and/or demolition work. Any concealed suspect ACM material that was not sampled, must be treated as ACM until proven otherwise by a certified AHERA Building Inspector and a certified laboratory. Contingency plans should include stopping work on identification of concealed suspect ACM, evacuation of the area, and sampling by a certified AHERA Building Inspector.

Lead was detected in 20 paint chip samples. During demolition activities, precautions should be taken to address worker safety (particularly, generation of dust through cutting, sanding, grinding, or other destructive activities on materials coated with LCP should be avoided), to protect human health and the environment, and to dispose of demolition debris in accordance with applicable state and federal regulations. In situations where workers may be exposed to lead, it is the employer's responsibility to ensure that work practices comply with the Washington State Department of Labor and Industries' lead in construction rule (WAC 296-155-176). The property owner should ensure that the public does not have access to the property during demolition activities. Prior to disposing of building or demolition debris, a representative sample of those materials that will be sent for disposal should be collected and submitted for toxicity characteristic leaching procedure analysis; these data will aid the contractor in determining whether the lead concentrations characterize these materials as hazardous waste.

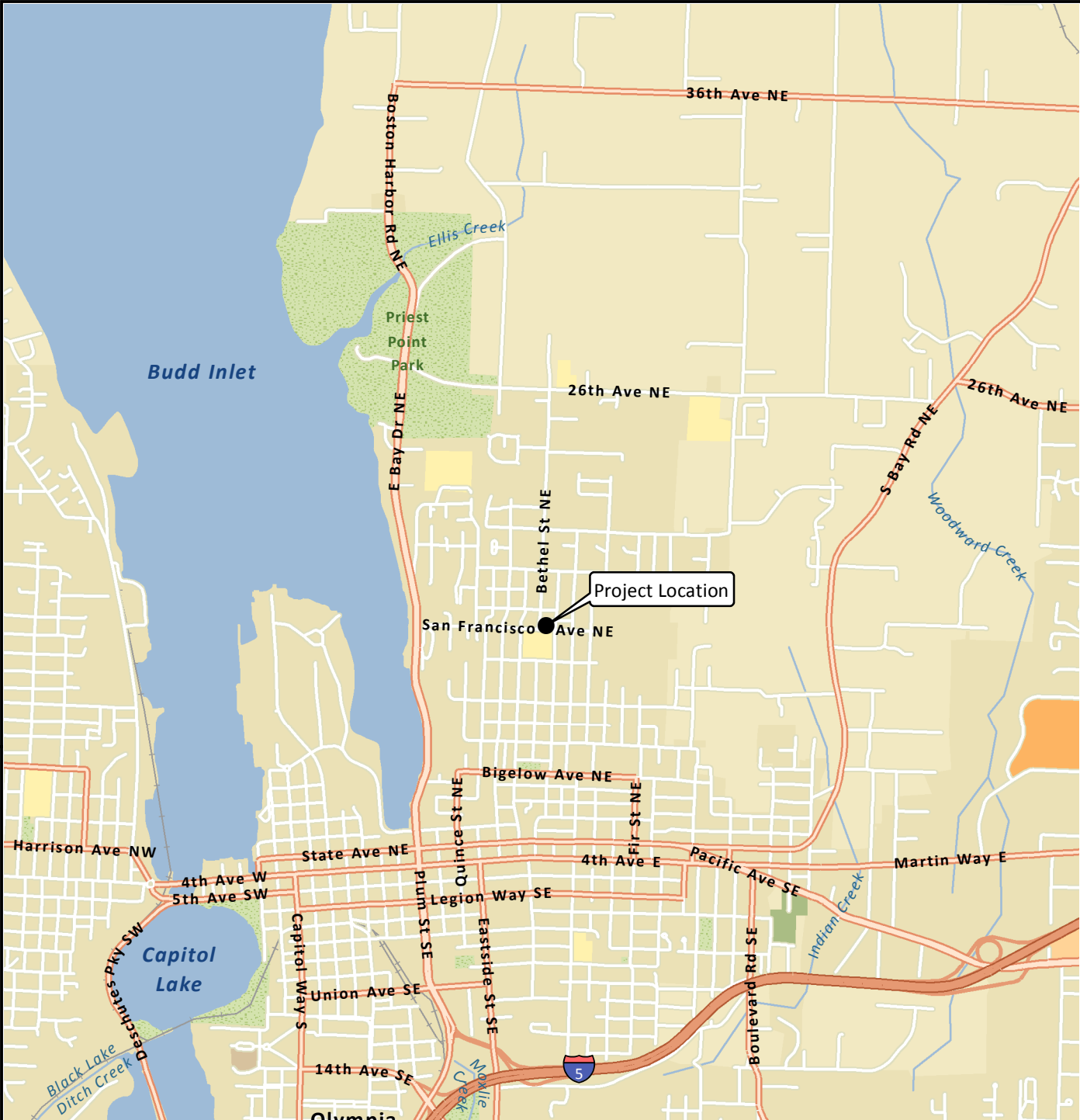
PCB- and mercury-containing equipment were not found at the subject property building during the survey. There is still the possibility, however, that PCB- and mercury-containing equipment exist within the electrical equipment in the building that could be disturbed during demolition activities. Caution should be taken when demolishing the subject property building to ensure that electronics are handled and disposed of in a manner that is appropriate for their contents. All fluorescent light tubes are assumed to contain mercury; these will need to be segregated from the waste stream for disposal as a "universal waste" under EPA regulation 40 CFR Part 273.9.

6.0 USE OF THIS REPORT

An HBMS has been conducted to identify ACM, LCP, PCBs, and mercury in materials and equipment to be disturbed during the demolition of Jack's Auto Service Station in Olympia, Washington. Construction methods and materials used vary with contractor and construction trades, and suspect ACM, LCP, PCBs, and mercury may exist in non-typical locations that were not investigated. During the demolition or renovation process, care should be taken not to disturb additional suspect materials, if encountered, without following the applicable regulatory requirements for sampling and analysis. Where encountered, suspect materials should be assumed to be ACM pending laboratory analysis. If laboratory analysis is not performed, all suspect materials should be assumed to be ACM.

This report has been prepared on behalf of Pioneer and coordinating parties including the property owner (Mr. BK Lee), the City of Olympia, and the EPA for specific application to the demolition and/or renovation of the Jack's Auto Service Station building in Olympia, Washington. No other party is entitled to rely on the information, conclusions, and recommendations included in this document without the express written consent of LAI. Further, the reuse of information, conclusions, and recommendations provided herein for extensions of the project or for any other project, without review and authorization by LAI, shall be at the user's sole risk. LAI warrants that within the limitations of scope, schedule, and budget, its services have been provided in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions as this project. LAI makes no other warranty, either express or implied.

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Data Source: Esri.

Pioneer Technologies Corporation
 Jack's Auto HBMS
 Olympia, Washington

Vicinity Map

Figure 1



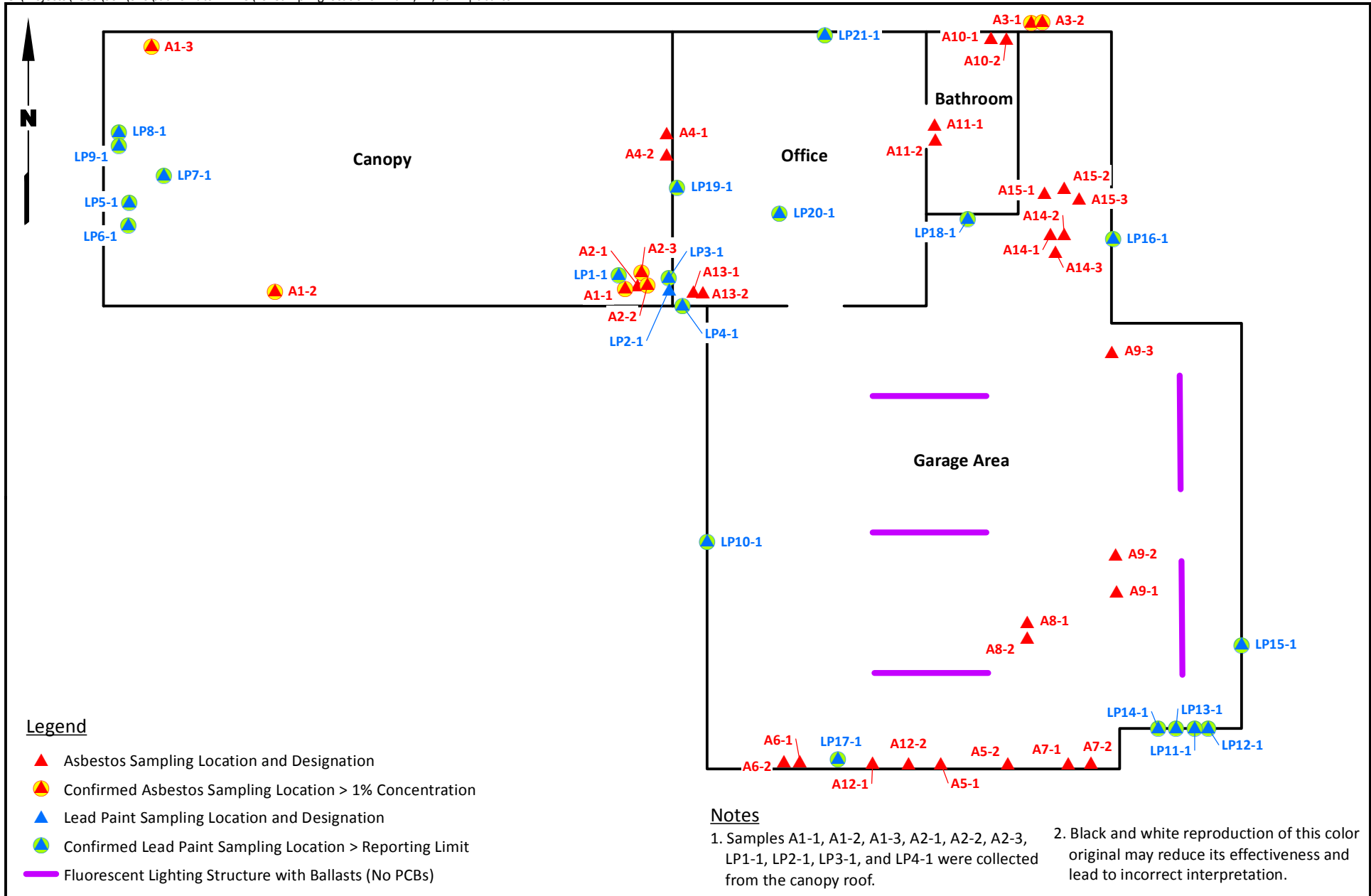


Table 1
Analytical Results for Asbestos Samples
Jack's Auto Service Station – Olympia, Washington

Sample Name	Material Description	Material Location	Asbestos Content (Laboratory Description)	Estimated Quantity of Confirmed ACM	If Confirmed ACM, Friable?
Building Exterior					
A1-1	Black tar roofing	Canopy roof	Layer 1 (Black asphaltic material): 5% Layer 2 (Beige brittle material): ND	465 sq ft	No
A1-2	Black tar roofing	Canopy roof	Layer 1 (Black asphaltic material): ND Layer 2 (Silver paint): 5% Layer 3 (Gray brittle material): ND	465 sq ft	Yes (Silver paint)
A1-3	Black tar roofing	Canopy roof	Layer 1 (Silver paint): 3% Layer 2 (Black asphaltic material): 4%	465 sq ft	Yes (Silver paint)
A2-1	White plaster patching	Canopy roof	Layer 1 (Beige crumbly material): ND	N/A	N/A
A2-2	White plaster patching	Canopy roof	Layer 1 (Beige crumbly material): ND Layer 2 (Silver paint): 4%	465 sq ft	No
A2-3	White plaster patching	Canopy roof	Layer 1 (Beige crumbly material): ND Layer 2 (Silver paint): 3%	465 sq ft	No
A3-1	Electrical rope gasketing	Exterior and interior light fixtures	Layer 1 (White/brown interwoven fibrous material): 75%	2 LF	No
A3-2	Electrical rope gasketing	Exterior and interior light fixtures	Layer 1 (White/brown interwoven fibrous material): 81%	2 LF	No
A4-1	Orange spray foam	Exterior wall, under canopy	Layer 1 (Yellow spongy material): ND	N/A	N/A
A4-2	Orange spray foam	Exterior wall, under canopy	Layer 1 (Yellow spongy material): ND	N/A	N/A
Building Interior					
A5-1	White window glaze	On windows in building	Layer 1 (Gray crumbly material with paper): ND	N/A	N/A
A5-2	White window glaze	On windows in building	Layer 1 (Beige crumbly material with paint): ND	N/A	N/A
A6-1	Black window sealant	On windows in building	Layer 1 (Black rubbery material): ND Layer 2 (Gray rubbery material with paint): ND	N/A	N/A
A6-2	Black window sealant	On windows in building	Layer 1 (Black rubbery material): ND Layer 2 (Gray rubbery material with paint): ND	N/A	N/A
A7-1	White window glaze	On windows in building	Layer 1 (White rubbery material): ND	N/A	N/A
A7-2	White window glaze	On windows in building	Layer 1 (White rubbery material with paint): ND	N/A	N/A

Table 1
Analytical Results for Asbestos Samples
Jack's Auto Service Station – Olympia, Washington

Sample Name	Material Description	Material Location	Asbestos Content (Laboratory Description)	Estimated Quantity of Confirmed ACM	If Confirmed ACM, Friable?
Building Interior					
A8-1	Black ceiling patch	Internal ceiling, garage area	Layer 1 (Black asphaltic material with paint): ND	N/A	N/A
A8-2	Black ceiling patch	Internal ceiling, garage area	Layer 1 (Black asphaltic material with paint): ND	N/A	N/A
A9-1	Gray foam pipe insulation	Internal water pipe, garage area	Layer 1 (Gray foamy material with paint): ND	N/A	N/A
A9-2	Gray foam pipe insulation	Internal water pipe, garage area	Layer 1 (Gray foamy material with paint): ND	N/A	N/A
A9-3	Gray foam pipe insulation	Internal water pipe, garage area	Layer 1 (Gray foamy material): ND	N/A	N/A
A10-1	White window glaze	On window in bathroom	Layer 1 (White rubbery material): ND	N/A	N/A
A10-2	White window glaze	On window in bathroom	Layer 1 (White rubbery material): ND	N/A	N/A
A11-1	Vinyl sheet flooring	Bathroom floor	Layer 1 (Beige sheet vinyl): ND Layer 2 (Gray fibrous backing): ND	N/A	N/A
A11-2	Vinyl sheet flooring	Bathroom floor	Layer 1 (Beige sheet vinyl): ND Layer 2 (Gray fibrous backing): ND	N/A	N/A
A12-1	Tan spray foam	Internal wall base	Layer 1 (Yellow foamy material with paint): ND	N/A	N/A
A12-2	Tan spray foam	Internal wall base	Layer 1 (Yellow foamy material with paint): ND	N/A	N/A
A13-1	Black pipe gasket	Inside on pipe to roof, office area	Layer 1 (Black rubbery material): ND	N/A	N/A
A13-2	Black pipe gasket	Inside on pipe to roof, office area	Layer 1 (Black rubbery material): ND	N/A	N/A
A14-1	Gray thermal insulation	Exhaust pipe thimble, garage area	Layer 1 (Gray powdery fibrous material): ND	N/A	N/A
A14-2	Gray thermal insulation	Exhaust pipe thimble, garage area	Layer 1 (Gray powdery fibrous material): ND	N/A	N/A
A14-3	Gray thermal insulation	Exhaust pipe thimble, garage area	Layer 1 (Gray powdery fibrous material): ND	N/A	N/A

Table 1
Analytical Results for Asbestos Samples
Jack's Auto Service Station – Olympia, Washington

Sample Name	Material Description	Material Location	Asbestos Content (Laboratory Description)	Estimated Quantity of Confirmed ACM	If Confirmed ACM, Friable?
Building Interior					
A15-1	Yellow insulation	Attic floor	Layer 1 (Tan fluffy fibrous material): ND Layer 2 (Black asphaltic mastic with paper): ND	N/A	N/A
A15-2	Yellow insulation	Attic floor	Layer 1 (Tan fluffy fibrous material): ND Layer 2 (Black asphaltic mastic with paper): ND	N/A	N/A
A15-3	Yellow insulation	Attic floor	Layer 1 (Tan fluffy fibrous material): ND Layer 2 (Black asphaltic mastic with paper): ND	N/A	N/A

Note - **Bolded** text is used to highlight materials and layers that are "asbestos-containing materials."

Abbreviations and Acronyms:

ACM = asbestos-containing material (i.e., >1% asbestos)

N/A = not applicable

ND = not detected

sq ft = square feet

LF = linear feet

Table 2
Analytical Results for Lead Paint Chip Samples
Jack's Auto Service Station – Olympia, Washington

Sample Name	Material Location	Material Description	Lead Concentration (mg/kg)	Lead Concentration (percent)
Building Exterior				
LP1-1	Canopy roof	Silver paint	380	0.038
LP2-1	Roof wall	Black paint	< 54	< 0.0054
LP3-1	Roof wall	White paint	<u>5,000</u>	<u>0.50</u>
LP4-1	Exterior walls, canopy sides	Green paint	<u>9,100</u>	<u>0.91</u>
LP5-1	Canopy struts	White paint	3,100	0.31
LP6-1	Canopy underside	Green paint	2,500	0.25
LP7-1	Canopy underside	Orange paint	<u>33,000</u>	3.3
LP8-1	Concrete medians	Orange paint	<u>120,000</u>	12
LP9-1	Concrete medians	Blue and gray paint layers	<u>6,700</u>	0.67
LP10-1	Exterior building front wall	Blue and white paint layers	1,800	0.18
LP11-1	Exterior building side wall	Brown and white paint layers	1,400	0.14
LP12-1	Exterior building side wall	Yellow paint	1,400	0.14
LP13-1	Exterior building side wall	Red and white paint layers	<u>110,000</u>	11
LP14-1	Exterior concrete building foundation	Red paint	<u>66,000</u>	6.6
LP15-1	Exterior building side wall	Orange paint	<u>59,000</u>	5.9
LP16-1	Exterior building side wall	White paint	2,800	0.28
Building Interior				
LP17-1	Interior walls	Gray and white paint layers	2,200	0.22
LP18-1	Interior walls	Gray, white, and red paint layers	2,400	0.24
LP19-1	Interior office walls	Black paint	1,900	0.19
LP20-1	Interior office floors	Red paint	830	0.083
LP21-1	Interior office walls	Green paint	<u>6,400</u>	0.64

Notes:

< = Not detected above detection limit shown.

Bold values represent detections above the reporting limit.

Underlined value represents material that is "lead-based paint" (i.e., $\geq 0.5\%$ or 5,000 mg/kg lead)

Abbreviations/Acronyms:

mg/kg = milligrams per kilogram

AHERA Building Inspector Certificates

THE ASBESTOS INSTITUTE

Certifies that

Chris Sommer

has attended and received instruction in the EPA approved course

AHERA Building Inspector Refresher

on

February 18, 2021

and successfully completed and passed the competency exam.

Certificate:
ON-4644-11461-021821

Date of Examination:
18-Feb-2021

Date of Expiration:
18-Feb-2022



William T. Cavness
Director



Approved Instructor

THE ASBESTOS INSTITUTE

20033 N. 19th Ave, Building 6, Phoenix, AZ 85027

602-864-6564 – www.theasbestosinstitute.com

This training meets all requirements for asbestos certification under Toxic Substance Control Act Title II.

Certificate of Completion

This is to certify that
Lance Levine
has satisfactorily completed
24 hours of training as an
AHERA Building Inspector

to comply with the training requirements of
TSCA Title II, 40 CFR 763 (AHERA)

EPA Provider # 1085

181417
Certificate Number



Apr 21 - 23, 2021

Expires in 1 year.

Date(s) of Training

Exam Score:
(if applicable)

98

A blue ink signature of David Welch, written in a cursive style.

Instructor: David Welch

ARGUS PACIFIC, INC / 21905 64th AVE W, SUITE 100 / MOUNTLAKE TERRACE, WASHINGTON 98043 / 206.285.3373 / ARGUSPACIFIC.COM

Laboratory Analytical Reports

July 13, 2021



Derek Pulvino
Landau Associates
130 2nd Avenue South
Edmonds, WA 98020

RE: Bulk Asbestos Fiber Analysis; NVL Batch # 2111672.00

Client Project: 1889002.010.011
Location: Jack's Auto - 1400 Bethel St NE Olympia, WA

Dear Mr. Pulvino,

Enclosed please find test results for the 35 sample(s) submitted to our laboratory for analysis on 7/1/2021.

Examination of these samples was conducted for the presence of identifiable asbestos fibers using polarized light microscopy (PLM) with dispersion staining in accordance with **U. S. EPA 40 CFR Appendix E to Subpart E of Part 763**, Interim Method for the Determination of Asbestos in Bulk Insulation Samples and **EPA 600/R-93/116**, Method for the Determination of Asbestos in Bulk Building Materials.

For samples containing more than one separable layer of materials, the report will include findings for each layer (labeled Layer 1 and Layer 2, etc. for each individual layer). The asbestos concentration in the sample is determined by calibrated visual estimation.

For those samples with asbestos concentrations between 1 and 10 percent based on visual estimation, the EPA recommends a procedure known as point counting (NESHAPS, 40 CFR Part 61). Point counting is a statistically more accurate means of quantification for samples with low concentrations of asbestos.

The detection limit for the calibrated visual estimation is <1%, 400 point counts is 0.25% and 1000 point counts is 0.1%

Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. Please do not hesitate to call if there is anything further we can assist you with.

Sincerely,

A handwritten signature in black ink, appearing to read "Matt Macfarlane".

Matt Macfarlane, Asbestos Lab Supervisor



Lab Code: 102063-0

Enc.: Sample Results

Phone: 206 547.0100 | Fax: 206 634.1936 | Toll Free: 1.888.NVL.LABS (685.5227)
4708 Aurora Avenue North | Seattle, WA 98103-6516



Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Landau Associates
 Address: 130 2nd Avenue South
 Edmonds, WA 98020

Batch #: 2111672.00
 Client Project #: 1889002.010.011
 Date Received: 7/1/2021
 Samples Received: 35
 Samples Analyzed: 35
 Method: EPA/600/R-93/116

Attention: Mr. Derek Pulvino
 Project Location: Jack's Auto - 1400 Bethel St NE Olympia, WA

Lab ID: 21077141 Client Sample #: A1-1
 Location: Jack's Auto - 1400 Bethel St NE Olympia, WA

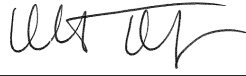
Layer 1 of 2	Description: Black asphaltic material			
	Non-Fibrous Materials:	Other Fibrous Materials: %		Asbestos Type: %
	Asphalt/Binder, Asphaltic Particles, Debris	None Detected	ND	Chrysotile 5%
Layer 2 of 2	Description: Beige brittle material			
	Non-Fibrous Materials:	Other Fibrous Materials: %		Asbestos Type: %
	Binder/Filler	None Detected	ND	None Detected ND

Lab ID: 21077142 Client Sample #: A1-2
 Location: Jack's Auto - 1400 Bethel St NE Olympia, WA

Layer 1 of 3	Description: Black asphaltic material			
	Non-Fibrous Materials:	Other Fibrous Materials: %		Asbestos Type: %
	Asphalt/Binder, Asphaltic Particles	Polyethylene fibers	22%	None Detected ND
Layer 2 of 3	Description: Silver paint			
	Non-Fibrous Materials:	Other Fibrous Materials: %		Asbestos Type: %
	Paint, Debris	None Detected	ND	Chrysotile 5%
Layer 3 of 3	Description: Gray brittle material			
	Non-Fibrous Materials:	Other Fibrous Materials: %		Asbestos Type: %
	Putty Compound, Debris	None Detected	ND	None Detected ND

Lab ID: 21077143 Client Sample #: A1-3
 Location: Jack's Auto - 1400 Bethel St NE Olympia, WA

Layer 1 of 2	Description: Silver paint			
	Non-Fibrous Materials:	Other Fibrous Materials: %		Asbestos Type: %
	Paint, Debris	None Detected	ND	Chrysotile 3%

Sampled by: Client		
Analyzed by: Shane Christian	Date: 07/09/2021	
Reviewed by: Matt Macfarlane	Date: 07/13/2021	Matt Macfarlane, Asbestos Lab Supervisor

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government



Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Landau Associates
 Address: 130 2nd Avenue South
 Edmonds, WA 98020

Batch #: 2111672.00
 Client Project #: 1889002.010.011
 Date Received: 7/1/2021
 Samples Received: 35
 Samples Analyzed: 35
 Method: EPA/600/R-93/116

Attention: Mr. Derek Pulvino
 Project Location: Jack's Auto - 1400 Bethel St NE Olympia, WA

Layer 2 of 2	Description: Black asphaltic material			
	Non-Fibrous Materials:	Other Fibrous Materials: %		Asbestos Type: %
	Asphalt/Binder, Asphaltic Particles, Debris	Cellulose 7%		Chrysotile 4%

Lab ID: 21077144 **Client Sample #: A2-1**
 Location: Jack's Auto - 1400 Bethel St NE Olympia, WA

Layer 1 of 1	Description: Beige crumbly material			
	Non-Fibrous Materials:	Other Fibrous Materials: %		Asbestos Type: %
	Putty Compound, Fine particles	None Detected ND		None Detected ND

Lab ID: 21077145 **Client Sample #: A2-2**
 Location: Jack's Auto - 1400 Bethel St NE Olympia, WA

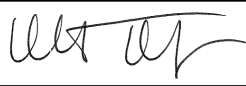
Layer 1 of 2	Description: Beige crumbly material			
	Non-Fibrous Materials:	Other Fibrous Materials: %		Asbestos Type: %
	Putty Compound, Fine particles	None Detected ND		None Detected ND

Layer 2 of 2	Description: Silver paint			
	Non-Fibrous Materials:	Other Fibrous Materials: %		Asbestos Type: %
	Paint, Debris	None Detected ND		Chrysotile 4%

Lab ID: 21077146 **Client Sample #: A2-3**
 Location: Jack's Auto - 1400 Bethel St NE Olympia, WA

Layer 1 of 2	Description: Beige crumbly material			
	Non-Fibrous Materials:	Other Fibrous Materials: %		Asbestos Type: %
	Putty Compound, Fine particles	None Detected ND		None Detected ND

Layer 2 of 2	Description: Silver paint			
	Non-Fibrous Materials:	Other Fibrous Materials: %		Asbestos Type: %
	Paint, Debris	None Detected ND		Chrysotile 3%

Sampled by: Client		
Analyzed by: Shane Christian	Date: 07/09/2021	
Reviewed by: Matt Macfarlane	Date: 07/13/2021	Matt Macfarlane, Asbestos Lab Supervisor

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government



Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Landau Associates
 Address: 130 2nd Avenue South
 Edmonds, WA 98020

Batch #: 2111672.00
 Client Project #: 1889002.010.011
 Date Received: 7/1/2021
 Samples Received: 35
 Samples Analyzed: 35
 Method: EPA/600/R-93/116

Attention: Mr. Derek Pulvino
 Project Location: Jack's Auto - 1400 Bethel St NE Olympia, WA

Lab ID: 21077147 Client Sample #: A3-1

Location: Jack's Auto - 1400 Bethel St NE Olympia, WA

Layer 1 of 1 **Description:** White/brown interwoven fibrous material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler, Debris	Cellulose 19%	
		Chrysotile 75%

Lab ID: 21077148 Client Sample #: A3-2

Location: Jack's Auto - 1400 Bethel St NE Olympia, WA

Layer 1 of 1 **Description:** White/brown interwoven fibrous material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler, Rust, Debris	Cellulose 12%	
		Chrysotile 81%

Lab ID: 21077149 Client Sample #: A4-1

Location: Jack's Auto - 1400 Bethel St NE Olympia, WA

Layer 1 of 1 **Description:** Yellow spongy material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Synthetic foam, Debris	None Detected ND	
		None Detected ND

Lab ID: 21077150 Client Sample #: A4-2

Location: Jack's Auto - 1400 Bethel St NE Olympia, WA

Layer 1 of 1 **Description:** Yellow spongy material

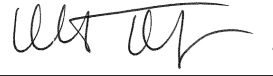
Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Synthetic foam, Debris	None Detected ND	
		None Detected ND

Lab ID: 21077151 Client Sample #: A5-1

Location: Jack's Auto - 1400 Bethel St NE Olympia, WA

Layer 1 of 1 **Description:** Gray crumbly material with paint

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Putty Compound, Paint, Debris	None Detected ND	
		None Detected ND

Sampled by: Client
Analyzed by: Shane Christian **Date:** 07/09/2021
Reviewed by: Matt Macfarlane **Date:** 07/13/2021 
 Matt Macfarlane, Asbestos Lab Supervisor

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government



Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Landau Associates
 Address: 130 2nd Avenue South
 Edmonds, WA 98020

Batch #: 2111672.00
 Client Project #: 1889002.010.011
 Date Received: 7/1/2021
 Samples Received: 35
 Samples Analyzed: 35
 Method: EPA/600/R-93/116

Attention: Mr. Derek Pulvino
 Project Location: Jack's Auto - 1400 Bethel St NE Olympia, WA

Lab ID: 21077152 Client Sample #: A5-2

Location: Jack's Auto - 1400 Bethel St NE Olympia, WA

Layer 1 of 1 Description: Beige crumbly material with paper

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Putty Compound, Paint, Debris	None Detected ND	None Detected ND

Lab ID: 21077153 Client Sample #: A6-1

Location: Jack's Auto - 1400 Bethel St NE Olympia, WA

Layer 1 of 2 Description: Black rubbery material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler, Debris	None Detected ND	None Detected ND

Layer 2 of 2 Description: Gray rubbery material with paint

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Putty Compound, Paint, Debris	None Detected ND	None Detected ND

Lab ID: 21077154 Client Sample #: A6-2

Location: Jack's Auto - 1400 Bethel St NE Olympia, WA

Layer 1 of 2 Description: Black rubbery material

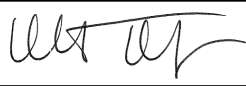
Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler, Debris	None Detected ND	None Detected ND

Layer 2 of 2 Description: Gray rubbery material with paint

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Putty Compound, Paint, Debris	None Detected ND	None Detected ND

Lab ID: 21077155 Client Sample #: A7-1

Location: Jack's Auto - 1400 Bethel St NE Olympia, WA

Sampled by: Client
Analyzed by: Shane Christian **Date:** 07/09/2021
Reviewed by: Matt Macfarlane **Date:** 07/13/2021 
 Matt Macfarlane, Asbestos Lab Supervisor

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government



Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Landau Associates
Address: 130 2nd Avenue South
Edmonds, WA 98020

Batch #: 2111672.00
Client Project #: 1889002.010.011
Date Received: 7/1/2021
Samples Received: 35
Samples Analyzed: 35
Method: EPA/600/R-93/116

Attention: Mr. Derek Pulvino
Project Location: Jack's Auto - 1400 Bethel St NE Olympia, WA

Layer 1 of 1	Description: White rubbery material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Putty Compound, Debris, Rust	None Detected ND		None Detected ND

Lab ID: 21077156 **Client Sample #: A7-2**
Location: Jack's Auto - 1400 Bethel St NE Olympia, WA

Layer 1 of 1	Description: White rubbery material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Putty Compound, Paint, Debris	None Detected ND		None Detected ND

Lab ID: 21077157 **Client Sample #: A8-1**
Location: Jack's Auto - 1400 Bethel St NE Olympia, WA

Layer 1 of 1	Description: Black asphaltic material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Asphalt/Binder, Asphaltic Particles, Paint	Cellulose 19%		None Detected ND

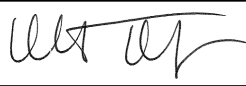
Lab ID: 21077158 **Client Sample #: A8-2**
Location: Jack's Auto - 1400 Bethel St NE Olympia, WA

Layer 1 of 1	Description: Black asphaltic material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Asphalt/Binder, Asphaltic Particles, Paint	Cellulose 12%		None Detected ND

Lab ID: 21077159 **Client Sample #: A9-1**
Location: Jack's Auto - 1400 Bethel St NE Olympia, WA

Layer 1 of 1	Description: Gray foamy material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Synthetic foam, Paint	None Detected ND		None Detected ND

Lab ID: 21077160 **Client Sample #: A9-2**
Location: Jack's Auto - 1400 Bethel St NE Olympia, WA

Sampled by: Client		
Analyzed by: Shane Christian	Date: 07/09/2021	
Reviewed by: Matt Macfarlane	Date: 07/13/2021	Matt Macfarlane, Asbestos Lab Supervisor

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government



Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Landau Associates
 Address: 130 2nd Avenue South
 Edmonds, WA 98020

Batch #: 2111672.00
 Client Project #: 1889002.010.011
 Date Received: 7/1/2021
 Samples Received: 35
 Samples Analyzed: 35
 Method: EPA/600/R-93/116

Attention: Mr. Derek Pulvino

Project Location: Jack's Auto - 1400 Bethel St NE Olympia, WA

Layer 1 of 1	Description: Gray foamy material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %	
	Synthetic foam, Paint	None Detected ND	None Detected ND	

Lab ID: 21077161 **Client Sample #: A9-3**
 Location: Jack's Auto - 1400 Bethel St NE Olympia, WA

Layer 1 of 1	Description: Gray foamy material			
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %	
	Synthetic foam, Debris	None Detected ND	None Detected ND	

Lab ID: 21077162 **Client Sample #: A10-1**
 Location: Jack's Auto - 1400 Bethel St NE Olympia, WA

Layer 1 of 1	Description: White rubbery material			
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %	
	Putty Compound, Debris	None Detected ND	None Detected ND	

Lab ID: 21077163 **Client Sample #: A10-2**
 Location: Jack's Auto - 1400 Bethel St NE Olympia, WA

Layer 1 of 1	Description: White rubbery material			
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %	
	Putty Compound, Debris	None Detected ND	None Detected ND	

Lab ID: 21077164 **Client Sample #: A11-1**
 Location: Jack's Auto - 1400 Bethel St NE Olympia, WA

Layer 1 of 2	Description: Beige sheet vinyl			
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %	
	Vinyl/Binder, Debris	None Detected ND	None Detected ND	

Sampled by: Client		
Analyzed by: Shane Christian	Date: 07/09/2021	
Reviewed by: Matt Macfarlane	Date: 07/13/2021	Matt Macfarlane, Asbestos Lab Supervisor

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government



Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Landau Associates
 Address: 130 2nd Avenue South
 Edmonds, WA 98020

Batch #: 2111672.00
 Client Project #: 1889002.010.011
 Date Received: 7/1/2021
 Samples Received: 35
 Samples Analyzed: 35
 Method: EPA/600/R-93/116

Attention: Mr. Derek Pulvino

Project Location: Jack's Auto - 1400 Bethel St NE Olympia, WA

Layer 2 of 2	Description: Gray fibrous backing			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Binder/Filler, Fine particles	Glass fibers 50%		None Detected ND

Lab ID: 21077165 **Client Sample #: A11-2**

Location: Jack's Auto - 1400 Bethel St NE Olympia, WA

Layer 1 of 2	Description: Beige sheet vinyl			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Vinyl/Binder, Debris	None Detected ND		None Detected ND

Layer 2 of 2	Description: Gray fibrous backing			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Binder/Filler, Fine particles	Glass fibers 51%		None Detected ND

Lab ID: 21077166 **Client Sample #: A12-1**

Location: Jack's Auto - 1400 Bethel St NE Olympia, WA

Layer 1 of 1	Description: Yellow foamy material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Synthetic foam, Paint	None Detected ND		None Detected ND

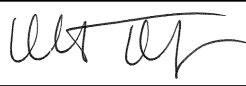
Lab ID: 21077167 **Client Sample #: A12-2**

Location: Jack's Auto - 1400 Bethel St NE Olympia, WA

Layer 1 of 1	Description: Yellow foamy material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Synthetic foam, Paint	None Detected ND		None Detected ND

Lab ID: 21077168 **Client Sample #: A13-1**

Location: Jack's Auto - 1400 Bethel St NE Olympia, WA

Sampled by: Client		
Analyzed by: Shane Christian	Date: 07/09/2021	
Reviewed by: Matt Macfarlane	Date: 07/13/2021	Matt Macfarlane, Asbestos Lab Supervisor

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government



Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Landau Associates
 Address: 130 2nd Avenue South
 Edmonds, WA 98020

Batch #: 2111672.00
 Client Project #: 1889002.010.011
 Date Received: 7/1/2021
 Samples Received: 35
 Samples Analyzed: 35
 Method: EPA/600/R-93/116

Attention: Mr. Derek Pulvino

Project Location: Jack's Auto - 1400 Bethel St NE Olympia, WA

Layer 1 of 1 **Description:** Black rubbery material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Rubber/Binder, Debris	None Detected ND	None Detected ND

Lab ID: 21077169 **Client Sample #: A13-2**
 Location: Jack's Auto - 1400 Bethel St NE Olympia, WA

Layer 1 of 1 **Description:** Black rubbery material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Rubber/Binder, Debris	None Detected ND	None Detected ND

Lab ID: 21077170 **Client Sample #: A14-1**
 Location: Jack's Auto - 1400 Bethel St NE Olympia, WA

Layer 1 of 1 **Description:** Gray powdery fibrous material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler, Debris	Glass fibers 62%	None Detected ND

Lab ID: 21077171 **Client Sample #: A14-2**
 Location: Jack's Auto - 1400 Bethel St NE Olympia, WA

Layer 1 of 1 **Description:** Gray powdery fibrous material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler, Debris	Glass fibers 60%	None Detected ND

Lab ID: 21077172 **Client Sample #: A14-3**
 Location: Jack's Auto - 1400 Bethel St NE Olympia, WA

Layer 1 of 1 **Description:** Gray powdery fibrous material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler, Debris	Glass fibers 63%	None Detected ND

Lab ID: 21077173 **Client Sample #: A15-1**
 Location: Jack's Auto - 1400 Bethel St NE Olympia, WA

Sampled by: Client
Analyzed by: Shane Christian **Date:** 07/09/2021
Reviewed by: Matt Macfarlane **Date:** 07/13/2021
 Matt Macfarlane, Asbestos Lab Supervisor

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government



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By Polarized Light Microscopy

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 Address: 130 2nd Avenue South
 Edmonds, WA 98020

Batch #: 2111672.00
 Client Project #: 1889002.010.011
 Date Received: 7/1/2021
 Samples Received: 35
 Samples Analyzed: 35
 Method: EPA/600/R-93/116

Attention: Mr. Derek Pulvino
 Project Location: Jack's Auto - 1400 Bethel St NE Olympia, WA

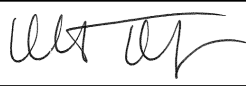
Layer 1 of 2	Description: Tan fluffy fibrous material	Non-Fibrous Materials: Glass debris	Other Fibrous Materials:% Glass fibers 95%	Asbestos Type: % None Detected ND
Layer 2 of 2	Description: Black asphaltic mastic with paper	Non-Fibrous Materials: Mastic/Binder, Debris	Other Fibrous Materials:% Cellulose 34%	Asbestos Type: % None Detected ND

Lab ID: 21077174 **Client Sample #: A15-2**
 Location: Jack's Auto - 1400 Bethel St NE Olympia, WA

Layer 1 of 2	Description: Tan fluffy fibrous material	Non-Fibrous Materials: Glass debris	Other Fibrous Materials:% Glass fibers 95%	Asbestos Type: % None Detected ND
Layer 2 of 2	Description: Black asphaltic mastic with paper	Non-Fibrous Materials: Mastic/Binder, Debris	Other Fibrous Materials:% Cellulose 31%	Asbestos Type: % None Detected ND

Lab ID: 21077175 **Client Sample #: A15-3**
 Location: Jack's Auto - 1400 Bethel St NE Olympia, WA

Layer 1 of 2	Description: Tan fluffy fibrous material	Non-Fibrous Materials: Glass debris	Other Fibrous Materials:% Glass fibers 95%	Asbestos Type: % None Detected ND
Layer 2 of 2	Description: Black asphaltic mastic with paper	Non-Fibrous Materials: Mastic/Binder, Debris	Other Fibrous Materials:% Cellulose 33%	Asbestos Type: % None Detected ND

Sampled by: Client	
Analyzed by: Shane Christian	Date: 07/09/2021
Reviewed by: Matt Macfarlane	Date: 07/13/2021
	 Matt Macfarlane, Asbestos Lab Supervisor

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

ASBESTOS LABORATORY SERVICES



Company Landau Associates	NVL Batch Number 2111672.00
Address 130 2nd Avenue South Edmonds, WA 98020	TAT 5 Days AH No
Project Manager Mr. Derek Pulvino	Rush TAT
Phone (425) 778-0907	Due Date 7/9/2021 Time 4:30 PM
Cell (206) 407-6140	Email dpulvino@landauinc.com
	Fax (425) 778-6409

Project Name/Number: 1889002.010.011 **Project Location:** Jack's Auto - 1400 Bethel St NE Olympia, WA

Subcategory PLM Bulk
Item Code ASB-02 EPA 600/R-93-116 Asbestos by PLM <bulk>

Total Number of Samples 35 **Rush Samples** _____

Lab ID	Sample ID	Description	A/R
1	21077141	A1-1	A
2	21077142	A1-2	A
3	21077143	A1-3	A
4	21077144	A2-1	A
5	21077145	A2-2	A
6	21077146	A2-3	A
7	21077147	A3-1	A
8	21077148	A3-2	A
9	21077149	A4-1	A
10	21077150	A4-2	A
11	21077151	A5-1	A
12	21077152	A5-2	A
13	21077153	A6-1	A
14	21077154	A6-2	A
15	21077155	A7-1	A
16	21077156	A7-2	A
17	21077157	A8-1	A
18	21077158	A8-2	A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Client				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Kelly AuVu		NVL	7/1/21	1630
Analyzed by	Shane Christian		NVL	7/9/21	
Results Called by					
<input type="checkbox"/> Faxed <input type="checkbox"/> Emailed					

Special Instructions: _____

Date: 7/1/2021
 Time: 4:30 PM
 Entered By: Kelly AuVu

ASBESTOS LABORATORY SERVICES



Company Landau Associates	NVL Batch Number 2111672.00
Address 130 2nd Avenue South Edmonds, WA 98020	TAT 5 Days AH No
Project Manager Mr. Derek Pulvino	Rush TAT _____
Phone (425) 778-0907	Due Date 7/9/2021 Time 4:30 PM
Cell (206) 407-6140	Email dpulvino@landauinc.com
	Fax (425) 778-6409

Project Name/Number: 1889002.010.011 **Project Location:** Jack's Auto - 1400 Bethel St NE Olympia, WA

Subcategory PLM Bulk
Item Code ASB-02 EPA 600/R-93-116 Asbestos by PLM <bulk>

Total Number of Samples 35 **Rush Samples** _____

Lab ID	Sample ID	Description	A/R
19	21077159	A9-1	A
20	21077160	A9-2	A
21	21077161	A9-3	A
22	21077162	A10-1	A
23	21077163	A10-2	A
24	21077164	A11-1	A
25	21077165	A11-2	A
26	21077166	A12-1	A
27	21077167	A12-2	A
28	21077168	A13-1	A
29	21077169	A13-2	A
30	21077170	A14-1	A
31	21077171	A14-2	A
32	21077172	A14-3	A
33	21077173	A15-1	A
34	21077174	A15-2	A
35	21077175	A15-3	A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Client				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Kelly AuVu		NVL	7/1/21	1630
Analyzed by	Shane Christian		NVL	7/9/21	
Results Called by					
<input type="checkbox"/> Faxed <input type="checkbox"/> Emailed					

Special Instructions: _____

Date: 7/1/2021
 Time: 4:30 PM
 Entered By: Kelly AuVu



ASBESTOS CHAIN OF CUSTODY

Turn Around Time
 1 Hour 24 Hours 4 Days
 2 Hours 2 Days 5 Days
 4 Hours 3 Days 10 Days
 Please call for TAT less than 24 Hours

Laboratory | Management | Training

Company Landau Associates, Inc.
 Address 130 2nd Ave. S
Edmonds, WA
 Phone 425-778-0907

Project Manager Derek Pulvino
 Cell (206) 407 - 6140
 Email dpulvino@landauinc.com
 Fax () -

Project Name/Number 1889002.010.011 Project Location Jack's Auto - 1400 Bethel St. NE, Olympia, WA

- PCM Air (NIOSH 7400)
- PLM (EPA 600/R-93-116)
- PLM Gravimetry (600/R-93-116)
- Asbestos Friable/Non-Friable (EPA 600/R-93/116)
- TEM (NIOSH 7402)
- EPA 400 Points (600/R-93-116)
- Asbestos in Vermiculite (EPA 600/R-04/004)
- Other
- TEM (AHERA)
- TEM (EPA Level II Modified)
- Asbestos in Sediment (EPA 1900 Points)

Reporting Instructions Email Chris Sommer
 Call () Fax () Email csommer@landauinc.com

Total Number of Samples 35

Sample ID	Description	A/R
1	A1-1	
2	A1-2	
3	A1-3	
4	A2-1	
5	A2-2	
6	A2-3	
7	A3-1	
8	A3-2	
9	A4-1	
10	A4-2	
11	A5-2 A5-1	
12	A5-2	
13	A6-2 A6-1	
14	A6-2	
15	A7-2 A7-1	

Print Name	Signature	Company	Date	Time
Sampled by <u>Chris Sommer</u>		<u>LAI</u>	<u>7/11/21</u>	<u>12:00</u>
Relinquish by <u>Chris Sommer</u>		<u>LAI</u>	<u>7/11/21</u>	<u>16:25</u>

Office Use Only

Print Name	Signature	Company	Date	Time
Received by <u>Keluppoer</u>		<u>Nu</u>	<u>7/11/2021</u>	<u>16:20</u>
Analyzed by				
Called by				
Faxed/Email by				



ASBESTOS CHAIN OF CUSTODY

Turn Around Time

- 1 Hour 24 Hours 4 Days
- 2 Hours 2 Days 5 Days
- 4 Hours 3 Days 10 Days

Please call for TAT less than 24 Hours

Laboratory | Management | Training

Company Landau Associates, Inc.
 Address 130 2nd Ave. S
Edmonds, WA
 Phone 425-778-0907

Project Manager Derek Pulvino
 Cell (206) 407-6140
 Email dpulvino@landauinc.com
 Fax ()

Project Name/Number 1889002.010.011 Project Location Jack's Auto - 1400 Bethel St. NE, Olympia, WA

- PCM Air (NIOSH 7400) TEM (NIOSH 7402) TEM (AHERA) TEM (EPA Level II Modified)
- PLM (EPA 600/R-93-116) EPA 400 Points (600/R-93-116) EPA 1000Points (600/R-93-116)
- PLM Gravimetry (600/R-93-116) Asbestos in Vermiculite (EPA 600/R-04/004) Asbestos in Sediment (EPA 1900 Points)
- Asbestos Friable/Non-Friable (EPA 600/R-93/116) Other _____

Reporting Instructions Email Chris Sommer
 Call () Fax () Email csommer@landauinc.com

Total Number of Samples 35

Sample ID	Description	A/R
1	A7-2	
2	A8-1	
3	A8-2	
4	A9-1	
5	A9-2	
6	A9-3	
7	A10-1	
8	A10-2	
9	A11-1	
10	A11-2	
11	A12-1	
12	A12-2	
13	A13-1	
14	A13-2	
15	A14-1	

	Print Name	Signature	Company	Date	Time
Sampled by	Chris Sommer	<i>[Signature]</i>	LAI	7/1/21	12:00
Relinquish by	Chris Sommer	<i>[Signature]</i>	LAI	7/1/21	16:35

Office Use Only

	Print Name	Signature	Company	Date	Time
Received by	Kelly Miller	<i>[Signature]</i>	NM	6/7/1/2021	16:30
Analyzed by					
Called by					
Faxed/Email by					



ASBESTOS CHAIN OF CUSTODY

Turn Around Time

- 1 Hour 24 Hours 4 Days
- 2 Hours 2 Days 5 Days
- 4 Hours 3 Days 10 Days

Please call for TAT less than 24 Hours

Laboratory | Management | Training

Company Landau Associates, Inc.
 Address 130 2nd Ave. S
Edmonds, WA
 Phone 425-778-0907

Project Manager Derek Pulvino
 Cell (206) 407 - 6140
 Email dpulvino@landauinc.com
 Fax () -

Project Name/Number 1889002.010.011 Project Location Jack's Auto - 1400 Bethel St. NE, Olympia, WA

- PCM Air (NIOSH 7400) TEM (NIOSH 7402) TEM (AHERA) TEM (EPA Level II Modified)
- PLM (EPA 600/R-93-116) EPA 400 Points (600/R-93-116) EPA 1000Points (600/R-93-116)
- PLM Gravimetry (600/R-93-116) Asbestos in Vermiculite (EPA 600/R-04/004) Asbestos in Sediment (EPA 1900 Points)
- Asbestos Friable/Non-Friable (EPA 600/R-93/116) Other _____

Reporting Instructions Email Chris Sommer
 Call () - Fax () - Email csommer@landauinc.com

Total Number of Samples 35

Sample ID	Description	A/R
1	<u>A14-2</u>	
2	<u>A14-3</u>	
3	<u>A15-1</u>	
4	<u>A15-2</u>	
5	<u>A15-3</u>	
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		

Print Name	Signature	Company	Date	Time
<u>Chris Sommer</u>	<u>[Signature]</u>	<u>LAI</u>	<u>7/1/21</u>	<u>12:00</u>
<u>Chris Sommer</u>	<u>[Signature]</u>	<u>LAI</u>	<u>7/1/21</u>	<u>10:25</u>

Office Use Only

Print Name	Signature	Company	Date	Time
<u>[Signature]</u>	<u>[Signature]</u>	<u>NVL</u>	<u>7/1/2021</u>	<u>10:20</u>
Received by				
Analyzed by				
Called by				
Faxed/Email by				

July 7, 2021

Derek Pulvino

Landau Associates

130 2nd Avenue South
Edmonds, WA 98020



NVL Batch # 2111673.00

RE: Total Metal Analysis
Method: EPA 7000B Lead by FAA <paint>
Item Code: FAA-02

Client Project: 1889002.010.011

Location: Jack's Auto - 1400 Bethel St NE Olympia, WA

Dear Mr. Pulvino,

NVL Labs received 15 sample(s) for the said project on 7/1/2021. Preparation of these samples was conducted following protocol outlined in EPA 3051/7000B , unless stated otherwise. Analysis of these samples was performed using analytical instruments in accordance with EPA 7000B Lead by FAA <paint>. The results are usually expressed in mg/Kg and percentage (%). Test results are not blank corrected.

For recent regulation updates pertaining to current regulatory levels or permissible exposure levels, please call your local regulatory agencies for more detail.

At NVL Labs all analyses are performed under strict guidelines of the Quality Assurance Program. This report is considered highly confidential and will not be released without your approval. Samples are archived after two weeks from the analysis date. Please feel free to contact us at 206-547-0100, in case you have any questions or concerns.

Sincerely,

A handwritten signature in black ink, appearing to read "Shalini Patel".

Shalini Patel, Lab Supervisor



Enc.: Sample results



Phone: 206 547.0100 | Fax: 206 634.1936 | Toll Free: 1.888.NVL.LABS (685.5227)
4708 Aurora Avenue North | Seattle, WA 98103-6516

Analysis Report

Total Lead (Pb)



Client: Landau Associates
 Address: 130 2nd Avenue South
 Edmonds, WA 98020

Batch #: 2111673.00

Matrix: Paint
 Method: EPA 3051/7000B
 Client Project #: 1889002.010.011
 Date Received: 7/1/2021
 Samples Received: 15
 Samples Analyzed: 15

Attention: Mr. Derek Pulvino

Project Location: Jack's Auto - 1400 Bethel St NE Olympia, WA

Lab ID	Client Sample #	Sample Weight (g)	RL in mg/Kg	Results in mg/Kg	Results in percent
21077176	LP1-1	0.1892	53	380	0.038
21077177	LP2-1	0.1859	54	< 54	<0.0054
21077178	LP3-1	0.1829	55	5000	0.50
21077179	LP4-1	0.1830	55	9100	0.91
21077180	LP5-1	0.1801	56	3100	0.31
21077181	LP6-1	0.1874	53	2500	0.25
21077182	LP7-1	0.0141	350	33000	3.3
21077183	LP8-1	0.1804	55	120000	12
21077184	LP9-1	0.1829	55	6700	0.67
21077185	LP10-1	0.1916	52	1800	0.18
21077186	LP11-1	0.1909	52	1400	0.14
21077187	LP12-1	0.1854	54	1400	0.14
21077188	LP13-1	0.1291	77	110000	11
21077189	LP14-1	0.1853	54	66000	6.6
21077190	LP15-1	0.1825	55	59000	5.9

Comments: Small sample size (<0.05g) for LP7-1.


Sampled by: Client

Analyzed by: Yasuyuki Hida

Reviewed by: Shalini Patel

Date Analyzed: 07/06/2021

Date Issued: 07/07/2021


 Shalini Patel, Lab Supervisor

mg/ Kg =Milligrams per kilogram

Percent = Milligrams per kilogram / 10000

Note : Method QC results are acceptable unless stated otherwise.

Unless otherwise indicated, the condition of all samples was acceptable at time of receipt.

RL = Reporting Limit

'<' = Below the reporting Limit

Bench Run No: 2021-0706-1

FAA-02

LEAD LABORATORY SERVICES



Company Landau Associates	NVL Batch Number 2111673.00
Address 130 2nd Avenue South Edmonds, WA 98020	TAT 5 Days AH No
Project Manager Mr. Derek Pulvino	Rush TAT
Phone (425) 778-0907	Due Date 7/9/2021 Time 4:30 PM
Cell (206) 407-6140	Email dpulvino@landauinc.com
	Fax (425) 778-6409

Project Name/Number: 1889002.010.011 **Project Location:** Jack's Auto - 1400 Bethel St NE Olympia, WA

Subcategory Flame AA (FAA)
Item Code FAA-02 EPA 7000B Lead by FAA <paint>

Total Number of Samples 15 **Rush Samples** _____

Lab ID	Sample ID	Description	A/R
1	21077176	LP1-1	A
2	21077177	LP2-1	A
3	21077178	LP3-1	A
4	21077179	LP4-1	A
5	21077180	LP5-1	A
6	21077181	LP6-1	A
7	21077182	LP7-1	A
8	21077183	LP8-1	A
9	21077184	LP9-1	A
10	21077185	LP10-1	A
11	21077186	LP11-1	A
12	21077187	LP12-1	A
13	21077188	LP13-1	A
14	21077189	LP14-1	A
15	21077190	LP15-1	A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Client				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Kelly AuVu		NVL	7/1/21	1630
Analyzed by	Yasuyuki Hida		NVL	7/6/21	
Results Called by					
<input type="checkbox"/> Faxed <input type="checkbox"/> Emailed					

Special Instructions: _____

Date: 7/1/2021
 Time: 4:39 PM
 Entered By: Kelly AuVu



page 1/2

2111673

METALS CHAIN OF CUSTODY

Turn Around Time

- 2 Hour 4 Hours 24 Hours
- 2 Days 3 Days 4 Days
- 5 Days 6-10 Days

Please call for TAT less than 24 Hours

Laboratory | Management | Training

Company Landau Associates, Inc.
 Address 130 2nd Ave. S.
Edmonds, WA 98020
 Phone 425-778-0907

Project Manager Derek Pulvino
 Cell (206) 407 - 6140
 Email dpulvino@landauinc.com
 Fax () -

Project Name/Number 1889002.010.011 Project Location Jack's Auto - 1400 Bethel St. NE, Olympia, WA

- | | | | | | | |
|---------------------------------------|---|---|---|-------------------------------|--|--------------------------------------|
| <input type="checkbox"/> Total Metals | <input checked="" type="checkbox"/> FAA (ppm) | <input type="checkbox"/> Air Filter | <input checked="" type="checkbox"/> Paint Chips (%) | <input type="checkbox"/> Soil | RCRA 8 | RCRA 11 |
| <input type="checkbox"/> TCLP | <input type="checkbox"/> ICP (PPM) | <input type="checkbox"/> Paint Chips (cm) | <input type="checkbox"/> Dust Wipes | | <input type="checkbox"/> Barium <input type="checkbox"/> Chromium <input type="checkbox"/> Silver | <input type="checkbox"/> Copper |
| | <input type="checkbox"/> GFAA (ppb) | <input type="checkbox"/> Drinking Water | <input type="checkbox"/> Waste Water | | <input type="checkbox"/> Arsenic <input type="checkbox"/> Mercury <input checked="" type="checkbox"/> Lead | <input type="checkbox"/> Zinc |
| | <input type="checkbox"/> CVAA (ppb) | <input type="checkbox"/> Other _____ | | | <input type="checkbox"/> Selenium <input type="checkbox"/> Cadmium | <input type="checkbox"/> Other _____ |

Reporting Instructions Email Chris Sommer
 Call () - Fax () - Email csommer@landauinc.com

Total Number of Samples 21

Sample ID	Description	A/R
1	LP1-1	
2	LP2-1	
3	LP3-1	
4	LP4-1	
5	LP5-1	
6	LP6-1	
7	LP8-1	
8	LP8-1	
9	LP9-1	
10	LP10-1	
11	LP11-1	
12	LP12-1	
13	LP13-1	
14	LP14-1	
15	LP15-1	

Print Name	Signature	Company	Date	Time
Sampled by <u>Chris Sommer</u>	<u>[Signature]</u>	<u>LAI</u>	<u>7/1/21</u>	<u>12:00</u>
Relinquish by <u>Chris Sommer</u>	<u>[Signature]</u>	<u>LAI</u>	<u>7/1/21</u>	<u>16:35</u>

Office Use Only

Print Name	Signature	Company	Date	Time
Received by <u>Kauppler</u>	<u>[Signature]</u>	<u>Nu</u>	<u>7/1/2021</u>	<u>16:30</u>
Analyzed by				
Called by				
Faxed/Email by				

July 2, 2021

Derek Pulvino

Landau Associates

130 2nd Avenue South
Edmonds, WA 98020



NVL Batch # 2111674.00

RE: Total Metal Analysis
Method: EPA 7000B Lead by FAA <paint>
Item Code: FAA-02

Client Project: 1889002.010.011

Location: Jack's Auto - 1400 Bethel St NE Olympia, WA

Dear Mr. Pulvino,

NVL Labs received 6 sample(s) for the said project on 7/1/2021. Preparation of these samples was conducted following protocol outlined in EPA 3051/7000B , unless stated otherwise. Analysis of these samples was performed using analytical instruments in accordance with EPA 7000B Lead by FAA <paint>. The results are usually expressed in mg/Kg and percentage (%). Test results are not blank corrected.

For recent regulation updates pertaining to current regulatory levels or permissible exposure levels, please call your local regulatory agencies for more detail.

At NVL Labs all analyses are performed under strict guidelines of the Quality Assurance Program. This report is considered highly confidential and will not be released without your approval. Samples are archived after two weeks from the analysis date. Please feel free to contact us at 206-547-0100, in case you have any questions or concerns.

Sincerely,

A handwritten signature in black ink, appearing to read "Shalini Patel".

Shalini Patel, Lab Supervisor



Enc.: Sample results



Phone: 206 547.0100 | Fax: 206 634.1936 | Toll Free: 1.888.NVL.LABS (685.5227)
4708 Aurora Avenue North | Seattle, WA 98103-6516

Analysis Report

Total Lead (Pb)



Client: Landau Associates
Address: 130 2nd Avenue South
Edmonds, WA 98020

Batch #: 2111674.00

Matrix: Paint
Method: EPA 3051/7000B
Client Project #: 1889002.010.011
Date Received: 7/1/2021
Samples Received: 6
Samples Analyzed: 6

Attention: Mr. Derek Pulvino

Project Location: Jack's Auto - 1400 Bethel St NE Olympia, WA

Lab ID	Client Sample #	Sample Weight (g)	RL in mg/Kg	Results in mg/Kg	Results in percent
21077191	LP16-1	0.1897	53	2800	0.28
21077192	LP17-1	0.2067	48	2200	0.22
21077193	LP18-1	0.1808	55	2400	0.24
21077194	LP19-1	0.1902	53	1900	0.19
21077195	LP20-1	0.1867	54	830	0.083
21077196	LP21-1	0.1673	60	6400	0.64


Sampled by: Client

Analyzed by: Yasuyuki Hida

Reviewed by: Shalini Patel

Date Analyzed: 07/02/2021

Date Issued: 07/02/2021


Shalini Patel, Lab Supervisor

mg/ Kg =Milligrams per kilogram

Percent = Milligrams per kilogram / 10000

Note : Method QC results are acceptable unless stated otherwise.

Unless otherwise indicated, the condition of all samples was acceptable at time of receipt.

RL = Reporting Limit

'<' = Below the reporting Limit

Bench Run No: 2021-0702-6

FAA-02

LEAD LABORATORY SERVICES



Company Landau Associates Address 130 2nd Avenue South Edmonds, WA 98020 Project Manager Mr. Derek Pulvino Phone (425) 778-0907 Cell (206) 407-6140	NVL Batch Number 2111674.00 TAT 5 Days AH No Rush TAT Due Date 7/9/2021 Time 4:30 PM Email dpulvino@landauinc.com Fax (425) 778-6409
---	--

Project Name/Number: 1889002.010.011 **Project Location:** Jack's Auto - 1400 Bethel St NE Olympia, WA

Subcategory Flame AA (FAA)
Item Code FAA-02 EPA 7000B Lead by FAA <paint>

Total Number of Samples 6 **Rush Samples** _____

Lab ID	Sample ID	Description	A/R
1	21077191	LP16-1	A
2	21077192	LP17-1	A
3	21077193	LP18-1	A
4	21077194	LP19-1	A
5	21077195	LP20-1	A
6	21077196	LP21-1	A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Client				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Kelly AuVu		NVL	7/1/21	1630
Analyzed by	Yasuyuki Hida		NVL	7/2/21	
Results Called by					
<input type="checkbox"/> Faxed <input type="checkbox"/> Emailed					

Special Instructions: _____

Date: 7/1/2021
 Time: 4:41 PM
 Entered By: Kelly AuVu



METALS CHAIN OF CUSTODY

page 2/2

2111674

Turn Around Time
 2 Hour 4 Hours 24 Hours
 2 Days 3 Days 4 Days
 5 Days 6-10 Days
 Please call for TAT less than 24 Hours

Laboratory | Management | Training

Company Landau Associates, Inc.
 Address 130 2nd Ave. S.
Edmonds, WA 98020
 Phone 425-778-0907

Project Manager Derek Pulvino
 Cell (206) 407-6140
 Email dpulvino@landauinc.com
 Fax ()

Project Name/Number 1889002.010.011 Project Location Jack's Auto - 1400 Bethel St. NE, Olympia, WA

- | | | | | | | | | |
|--|---|---|---|-------------------------------|-----------------------------------|-----------------------------------|--|---------------------------------|
| <input checked="" type="checkbox"/> Total Metals | <input checked="" type="checkbox"/> FAA (ppm) | <input type="checkbox"/> Air Filter | <input checked="" type="checkbox"/> Paint Chips (%) | <input type="checkbox"/> Soil | RCRA 8 | RCRA 11 | | |
| <input type="checkbox"/> TCLP | <input type="checkbox"/> ICP (PPM) | <input type="checkbox"/> Paint Chips (cm) | <input type="checkbox"/> Dust Wipes | | <input type="checkbox"/> Barium | <input type="checkbox"/> Chromium | <input type="checkbox"/> Silver | <input type="checkbox"/> Copper |
| | <input type="checkbox"/> GFAA (ppb) | <input type="checkbox"/> Drinking Water | <input type="checkbox"/> Waste Water | | <input type="checkbox"/> Arsenic | <input type="checkbox"/> Mercury | <input checked="" type="checkbox"/> Lead | <input type="checkbox"/> Zinc |
| | <input type="checkbox"/> CVAA (ppb) | <input type="checkbox"/> Other | | | <input type="checkbox"/> Selenium | <input type="checkbox"/> Cadmium | | <input type="checkbox"/> Other |

Reporting Instructions Email Chris Sommer
 Call () Fax () Email csommer@landauinc.com

Total Number of Samples 21

Sample ID	Description	A/R
1	LP16-1	
2	LP17-1	
3	LP18-1	
4	LP19-1	
5	LP20-1	
6	LP21-1	
7		
8		
9		
10		
11		
12		
13		
14		
15		

	Print Name	Signature	Company	Date	Time
Sampled by	Chris Sommer	<i>Chris Sommer</i>	LAI	7/1/21	12:00
Relinquish by	Chris Sommer	<i>Chris Sommer</i>	LAI	7/1/21	16:25

Office Use Only

	Print Name	Signature	Company	Date	Time
Received by	<i>Felipe Alon</i>	<i>Felipe Alon</i>	<i>NVL</i>	7/1/2021	1:30
Analyzed by					
Called by					
Faxed/Email by					

Selected Site Photographs



1. Building exterior, looking northeast.



2. Building canopy, looking southeast.

07/20/21 \\edmdat01\projects\1889\002\Appendix C\Jack's Auto HBMS_apc-1.docx



3. Building canopy top, looking northeast.



4. Building roof, looking east.



5. Building interior, garage area, looking east.



6. Asbestos sampling location A1-1.

07/20/21 \\edmdat01\projects\1889\002\Appendix C\Jack's Auto HBMS_apc-3.docx

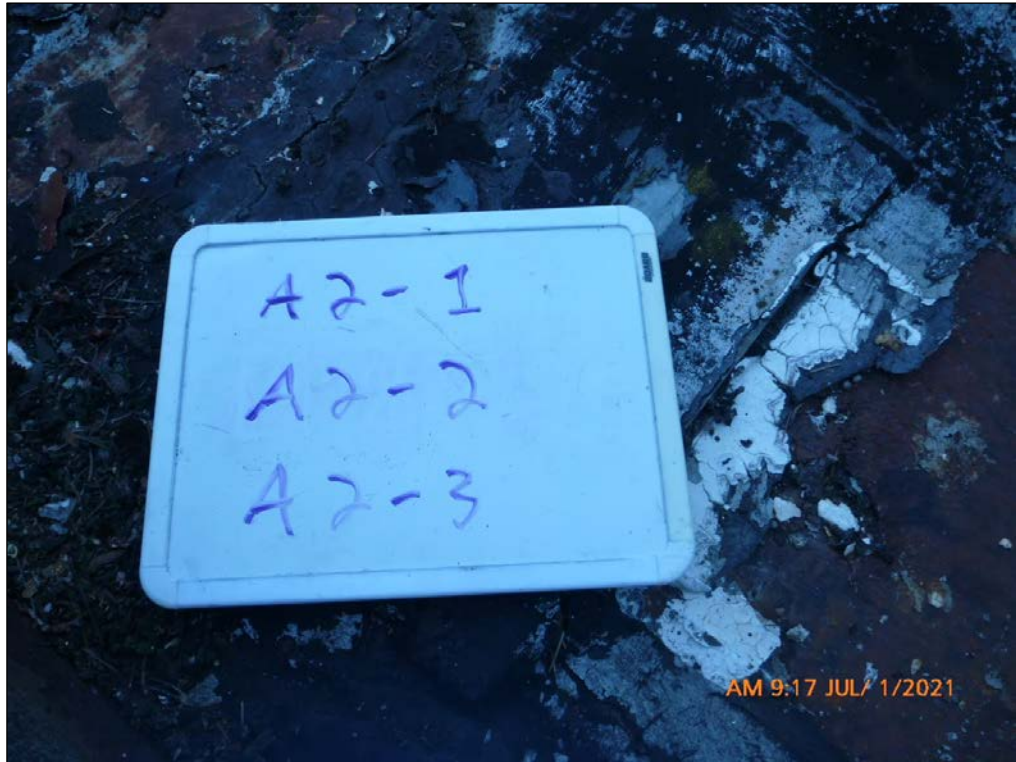


7. Asbestos sampling location A1-2.



8. Asbestos sampling location A1-3.

07/20/21 \\edmdat01\projects\1889\002\Appendix C\Jack's Auto HBMS_apc-4.docx

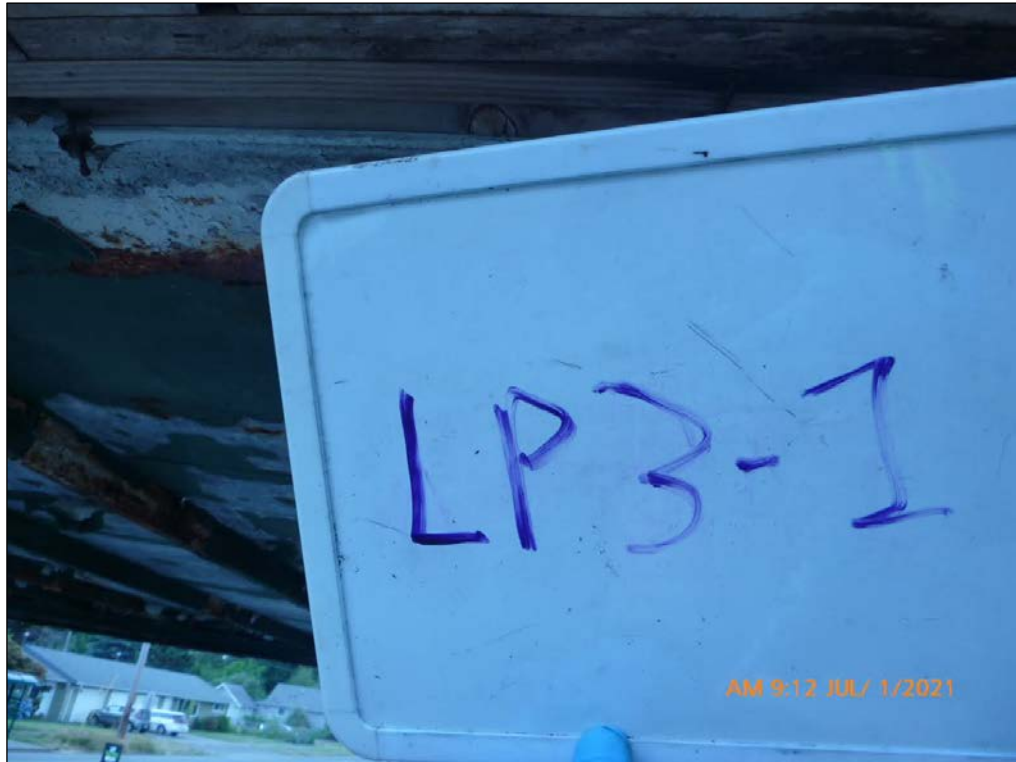


9. Asbestos sampling locations A2-1, A2-2, and A2-3.

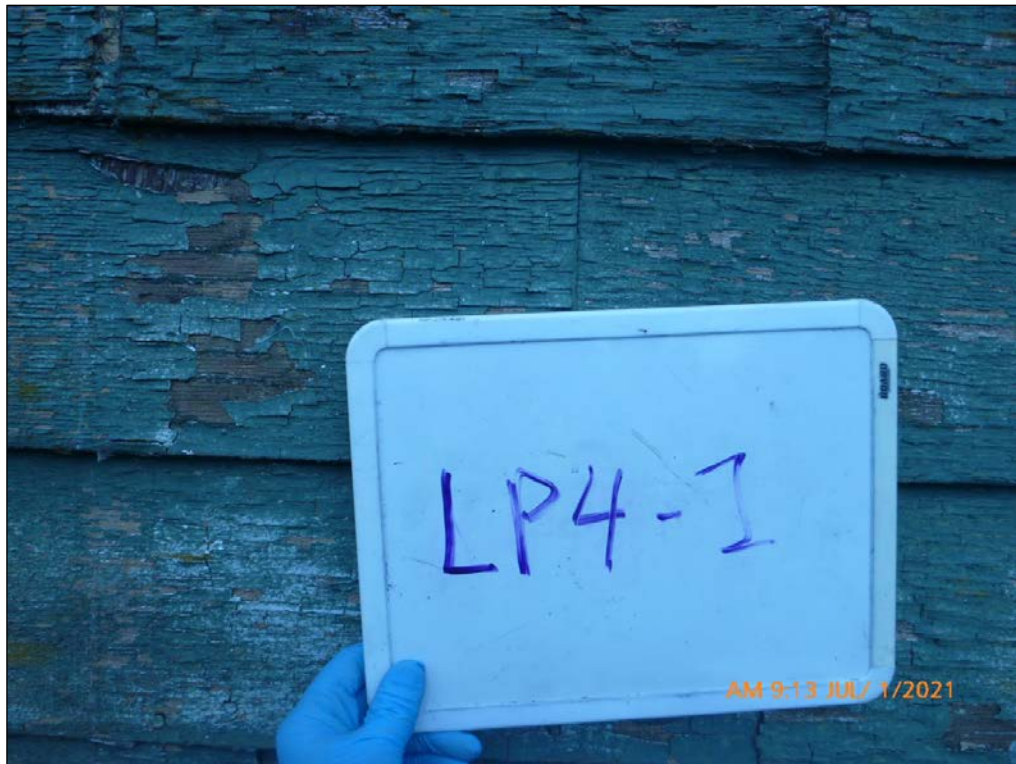


10. Asbestos sampling locations A3-1 and A3-2.

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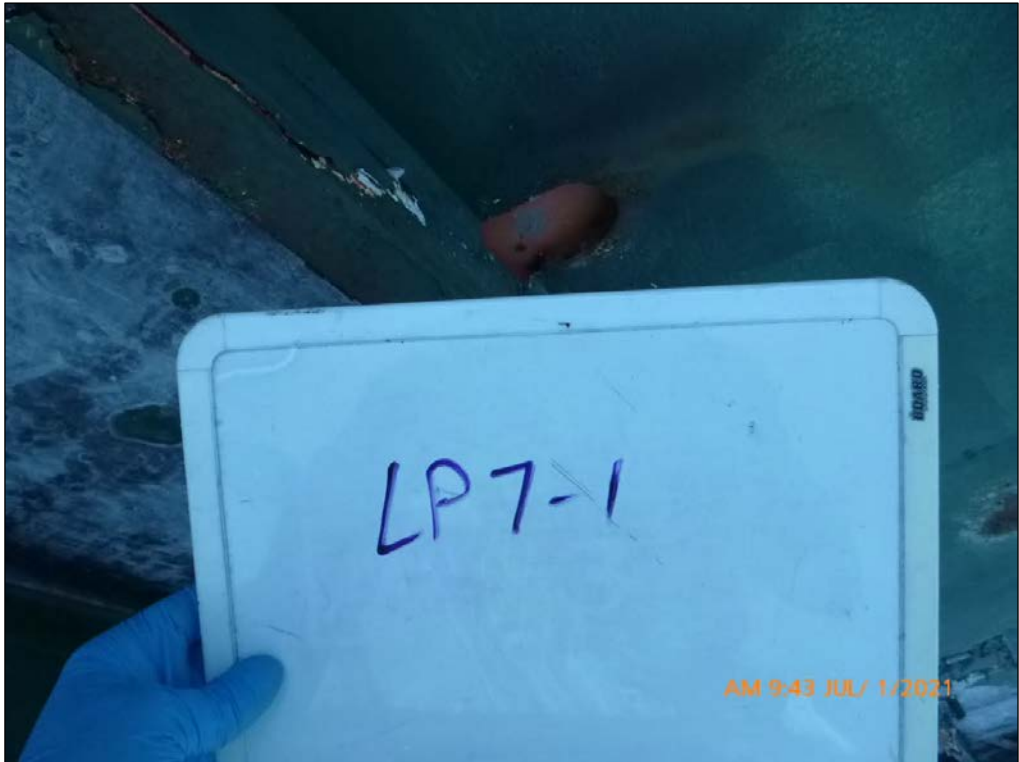


11. Lead paint sampling location LP3-1.



12. Lead paint sampling location LP4-1.

07/20/21 \\edmdat01\projects\1889\002\Appendix C\Jack's Auto HBMS_apc-6.docx



13. Lead paint sampling location LP7-1.



14. Lead paint sampling location LP8-1.



15. Lead paint sampling location LP9-1.



16. Lead paint sampling location LP13-1.

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17. Lead paint sampling location LP14-1.



18. Lead paint sampling location LP15-1.

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19. Lead paint sampling location LP21-1.