

Close Out Documents

AP-93 3538 E 46th Ave

Structural Demolition

Prepared for:

Kiewit Infrastructure Co.
Attn: Megan Wood
160 Inverness Drive West, Suite 110
Englewood CO 80112

Contents:

1. CDPHE Demolition Permit
2. Project Design
 - a. SSAR
3. Waste Manifests
 - a. Regulated Building Materials (RBMs) Waste Manifests
4. Weight Tickets
 - a. Truck Tickets
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1. CDPHE Demolition Permit



DEMOLITION NOTIFICATION APPLICATION FORM

APPLICATION FEE MUST ACCOMPANY THIS FORM

INCOMPLETE APPLICATIONS WILL BE RETURNED

(Notice will be mailed to the demolition contractor unless specified otherwise)

Fee: \$50 + \$5 per 1000 ft² of area to be demolished = \$ 60.00
(See instruction #1 on reverse side)

Submit form to:
Permit Coordinator
Colorado Dept. of Public
Health and Environment
APCD-IE-B1
4300 Cherry Creek Drive
South
Denver, CO 80246-1530
Phone: 303-692-3100
Fax: 303-782-0278
Asbestos@state.co.us

Colorado Department
of Public Health
and Environment

Demolition Contractor	Company Name: JKS Industries			Building Name: AP-93 Warehouse Building		
	Street: 747 Sheridan Blvd. #9A			Square footage of footprint of facility or portion of facility to be demolished 2,361		
	City: Lakewood	State: CO	Zip Code: 80214	Street: 3538 E 46 th Ave		
	Telephone # (303) 238-0207	Fax # (303) 238-0452		City: Denver	County: Denver	Zip Code: 80216
	Project Manager: Jeffrey Knight		Cell Phone # (720) 402-4410		Proposed Start Date 9/3/2019	Proposed Completion Date 9/10/2019
	I certify that the Certified Asbestos Building Inspector has informed me about any remaining asbestos-containing materials in the facility to be demolished.					

Asbestos Removal Contractor	General Abatement Contractor (GAC) JKS Industries			Owner's Name: CDOT		
	CDPHE Asbestos Permit # N/A	Total Quantity of Asbestos Removed N/A		Street: 2000 S Holly St.		
	Date Removal Completed N/A	Telephone # (303) 238-0207		City: Denver	State: CO	Zip Code: 80222
	Type(s) of Asbestos-Containing Material Removed: N/A			Contact's Name: Anthony DaVito		

Certified Asbestos Inspector Certification

With my signature below, I certify that I possess current AHERA accreditation and state of Colorado certification as an Asbestos Building Inspector. I also certify that I have thoroughly inspected the facility to be demolished, as listed in the Demolition Site block above, sampled all suspect materials, had all samples analyzed for the presence of asbestos by a NVLAP-accredited laboratory, and have determined that no Regulated ACM exists anywhere in the facility.* I also certify that I have informed the owner/operator of the facility or the demolition contractor that any asbestos-containing material allowed to stay in the facility must remain non-friable during demolition. Specify type(s) of ACM remaining, below: (check appropriate box(es)):

Vinyl asbestos floor tile (VAT) VAT mastic Tar/asphalt impregnated roofing Asphaltic pipe coatings
 Spray-applied tar coatings Caulking Glazing Other, specify:

Signature: (In Blue Ink) *Logan Greenfield* Printed Name: *Logan Greenfield*

Date of Final Inspection: *8-16-19* CO Cert #: *20715* Expiration Date: *Oct. 18, 2019* Telephone #: *(719) 545-0735* Cell Phone #: *(719) 250-0036*

Building Owner or Contractor

I verify that all refrigerants from air conditioning/refrigeration appliances have been properly recovered in accordance with AQCC Regulation No. 15 (for information on CFC requirements call 692-3100). I further verify that all luminous exit signs (containing radioactive material) have been disposed of in accordance with 6 CCR 1007-1 subpart 3.6.4.3 (for information on luminous exit sign requirements call 303-692-3320).

CHECK THE APPROPRIATE BOX:

Building Owner Contractor Other

Signature: *Jeffrey Knight* Date: *8/9/19*
Print Name: *JEFFREY KNIGHT*

THIS BOX IS FOR CDPHE USE ONLY:

Mark or Hand Delivery Date:	Approved By:	Code: <input type="checkbox"/> initial-310 <input type="checkbox"/> transfer-380
Form of Payment & #:	Permit #:	Record #
		Date Issued:

* Regulated asbestos-containing materials means (a) friable asbestos-containing material, (b) Category I nonfriable ACM that has become friable, (c) Category I nonfriable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading or (d) Category II nonfriable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations regulated by this regulation. Note: Asbestos-containing sheet vinyl and linoleum must be properly abated/removed prior to demolition.

AUG 20 2019



2. Project Design

a. SSAR



April 4, 2019 – Limited (Occupied Building)



Structure Survey Assessment Report AP-93

3538 E. 46th Ave.

Denver, CO 80216

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LIST OF REPORT ACRONYMS/ABBREVIATIONS

ACMs	Asbestos Containing Materials
AHERA	Asbestos Hazard and Response Act
APEC	All-Phase Environmental Consultants
AMS	Air Monitoring Specialist
CABI	Colorado Asbestos Building Inspector
CDOT	Colorado Department of Transportation
CDPHE	Colorado Department of Public Health and Environment
CFCs	Chlorofluorocarbons
CFR	Code of Federal Regulations
EP	Environmental Professional
EPA	Environmental Protection Agency
FAA	Flame Atomic Absorption
LBP	Lead Based Paint
LCP	Lead Containing Paint
NESHAP	National Emissions Standards for Hazardous Air Pollutants
NVLAP	National Voluntary Laboratory Accreditation Program
OSHA	Occupational Safety and Health Administration
PCBs	Polychlorinated Biphenyls
PD	Project Designer
PEL	Permissible Exposure Limits
PLM	Polarized Light Microscopy
PPE	Personal Protective Equipment
ppm	Parts Per Million
RBM	Regulated Building Materials
RCRA	Resource Conservation and Recovery Act
RHMs	Recognized Hazardous Materials
SSAP	Structure Survey Assessment Plan
TC	Toxicity Characteristic
TCLP	Toxicity Characteristic Leaching Procedure
USEPA	U.S. Environmental Protection Agency
UWR	EPA Universal Waste Rule

LIST OF SAMPLING ACRONYMS/ABBREVIATIONS

BM	Brick/Mortar
CB	Cove Base
CC	Concrete
CER	Ceramic Block
CM	Ceramic Tile/Mortar
CMU	Concrete Masonry Unit/Mortar
CP	Carpet
CT	Ceiling Tile
D	Drywall (no surfacing)
DJ	Drywall/Joint Compound
F	Flooring
FT	Floor Tile
IN	Insulation
L	Linoleum
M	Mastic
MF	Multiple layered Flooring
MT	Mortar
Mg/L	Milligrams per Liter
PC	Popcorn Ceiling
PL	Plaster
PM	Panel/Mastic
R	Roofing
RF	Roof Flashing
S	Siding
ST	Stucco
T	Texture (no substrate)
TC	Textured Composite Board
TD	Textured Drywall
TSI	Thermal System Insulation
VB	Vapor Barrier
VP	Vent Paste (heating/cooling systems)
VW	Vent Wrap (heating/cooling systems)
WC	Window Caulk
WD	Wallpapered Drywall

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Table 4	Summary of Regulated Building Materials

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Appendix B	Positive Lead Sample Material Photographs
Appendix C	Laboratory Results & Chain of Custody – Asbestos
Appendix D	Laboratory Results & Chain of Custody – Lead

APEC Project # 19-3447-031

Prepared for

Kiewit Meridiam Partners

Prepared by

Logan Greenfield
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Reviewed by

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President

1 Introduction

All-Phase Environmental Consultants, Inc. (APEC) was contracted to complete an environmental building survey for suspect asbestos-containing materials (ACMs), lead-based paint (LBP), and regulated building materials (RBM) at 3538 E. 46th Ave. Denver, Colorado 80216. This survey will identify the materials that will need to be abated or removed prior to the future demolition activities.

Table 1 Project Details

Client Name:	Kiewit Meridiam Partners
Site Location:	3538 E. 46 th Ave., Denver, CO 80216 per Denver County Assessor Research
Building Type	Commercial Building
Building Size	Building is approximately 2,361 square feet, per Denver County Assessor
Construction Date:	1981 – Based on the City and County of Denver Assessor Information
Building Uses:	Commercial – Training and Storage
Types of Materials to be Disturbed/Description of Proposed Disturbances:	Client intends to demolish the structure. All building materials will be impacted.

This Structure Survey Assessment was conducted as part of the Central 70 Project located in Denver, Colorado. This assessment was conducted in accordance with the Structure Survey Assessment Plan (SSAP), dated March 27, 2018. The SSAP, as defined in Section 23.13.2 of Schedule 17 (Environmental Requirements) of the final Central 70 Project Agreement between Colorado Department of Transportation (CDOT) and Kiewit Meridiam Partners, identifies the procedures for completing building and structure surveys for ACMs, LBP and universal wastes or other Recognized Hazardous Materials (RHMs), as defined by the Resource Conservation and Recovery Act (RCRA); universal waste, as defined by the U.S. Environmental Protection Agency (EPA) and 6 Colorado Code of Regulations (CCR) Part 273 of the Colorado Hazardous Waste Regulations; chlorofluorocarbons (CFCs), as defined by the Clean Air Act; and polychlorinated biphenyls (PCBs), as defined by the Toxic Substances Control Act.

2 Site Survey Methodology

2.1 ASBESTOS SURVEY

The site inspection was conducted on March 20, 2019 by APEC certified personnel; Logan Greenfield for demolition at 3538 East 46th Ave. Denver, Colorado 80216. However, this inspection is Limited because the building was occupied at this time and complete destructive sampling techniques were not feasible. A re-inspection is required after the building is unoccupied to verify material and locations before demolition activities may occur. The asbestos survey (inspection/sampling) was completed in accordance with the SSAP and follows guidelines established under the USEPA's AHERA program and as required by USEPA regulation 40 CFR Part 61, NESHAP.

Bulk sampling of suspected ACMs was performed in strict accordance with AHERA sampling procedures detailed in 40 CFR 763.86. These include but aren't limited to labeling each sample, recording the samples on a chain of custody, taking a photo of the sample and recording the random location on a site diagram. Demolition work could disturb materials that contain asbestos and put unprotected workers at risk, violating asbestos regulations, which are enforced by the Occupational Safety and Health Administration (OSHA), the EPA, the Colorado Department of Public Health and Environment (CDPHE) and the Denver County Health Department. All samples were collected and submitted to EMSL Analytical, Inc. in Denver, CO, per APEC chain of custody protocol. This laboratory is a member of NVLAP and is qualified to perform the required analysis (Appendix A). The analysis conducted was the EPA Interim Method for the Determination of Asbestos in Bulk Samples, using standard PLM and dispersion staining as established in 40 CFR Part 763.

Suspect materials are divided into two types, friable and non-friable, based upon the material's consistency. Friable is a material that, when dry, can be reduced to a powder or crumbled by finger (hand) pressure only, thereby rendering the material friable and allowing suspected asbestos fibers to become airborne. Friable materials produce a human health risk if the fibers are asbestos. When airborne the asbestos can be inhaled into the lungs causing future health problems and risks. Non-friable materials are miscellaneous building materials that in composition are hard and cannot be easily disturbed. These materials do not present a human health risk, unless activities such as crushing, sanding, or any activity that damages in a destructive way, such as during a demolition, causes its condition to become friable. Sample descriptions including friability, determination of homogenous areas and locations and categorization of materials are located on the Field Sheet attached as Table 2.

Sample locations are determined per homogeneous areas and are selected by dividing the homogeneous sampling area into nine equally sized subareas. This is done by dividing the length and width of the sampling area into three equal lengths and drawing a grid over the diagram. This can be done carefully by eye. Exact measurements are not needed.

If the homogeneous sampling area does not easily fit into a rectangular shape, parts of the grid might not be in the sampling area. This is not a problem in most cases. If, however, a large part of the grid falls outside the homogeneous sampling area (L-shaped), it is to be divided into two or more separate sampling areas, each of which is approximately rectangular, and select sample locations are selected by applying the sampling scheme to each sampling area.

For greatest coverage, one sample from each of the nine grid regions should be collected. If fewer samples are to be collected, subareas are used in order to follow a random sampling scheme. For the first area intended to sample, personnel number the nine subareas. If three samples are needed, they are taken from the subareas marked 1, 2, 3, 4 and 5 and so on. Samples are collected from the approximate center of a subarea or as close as possible to the center if accessibility, presence of light fixtures, etc. make the center location impractical. If the material is drywall it is common practice to find a “seam” so as to encompass the drywall, tape and mud all in a layered sample. If a subarea is specified that falls entirely outside the sampling area, the next specified subarea is used instead. For example, if subarea three falls outside the sampling area, the third sample is taken from subarea 4.

For very irregular-shaped areas, the homogeneous sampling area may be divided into nine subareas of approximately equal size that do not necessarily form a rectangular grid. When adapting sampling diagrams, the order of the numbered subareas from left to right and top to bottom, are retained, whenever possible. For each sampling area, a new diagram is generated.

This inspection report and methodology complies with the CDPHE Asbestos Sampling and Report Requirements Memorandum dated February 28, 2018.

2.2 LEAD-BASED PAINT SURVEY

On March 20, 2019, APEC certified personnel Rick Ralston conducted the lead survey. The survey was conducted to evaluate the absence and/or presence of LBP or LCP that will be impacted during future demolition activities. The survey consisted of reviewing and inspecting the interior, exterior and roof system of the structure for suspect LBP or LCP. The testing method makes use of a heat gun and/or scraper, removing a portion of the paint down to the substrate (material under the paint). Proper chain of custody procedures were followed and samples were sent to EMSL Analytical, Inc. in Cinnaminson, NJ, via Fed Ex. The samples were analyzed by total lead (percent by weight) via FAA by EPA Method 7420. EMSL is accredited under the American Industrial Hygiene Association’s Environmental Lead Proficiency Analytical Testing program. LBP, according to the EPA, is defined as paint that contains lead in concentrations greater than 1.0 milligrams per square centimeter (mg/cm²) as measured with an XRF or 5000 ppm when measured by weight, or 0.5 percent by weight.

A total of 4 homogeneous paint color variations of suspect LBP areas were identified. One paint chip sample was collected from each suspect homogeneous area and submitted to the laboratory for analysis. A representative photograph of a positive LBP sample was taken and is included in the photographic log (Appendix B). The paint chip sample locations were recorded and are included on the sample location drawing (Figure 3). Descriptions of the suspect homogeneous materials and a list of the collected samples are described in the ‘Findings’ section.

A TCLP sample was not taken because the building was occupied during the inspection.

2.3 SURVEY OF SUSPECTED RBMS

On March 20, 2019, APEC personnel conducted the RBM inventory consisting of inspecting the interior, exterior and roof system. The inspection was conducted to visually identify and quantify any building materials, devices and equipment suspected of containing potentially regulated materials as they pertain to the EPA UWR requirements (40 CFR, Part 273). APECs inventory review consisted of the following: potential mercury-containing thermostats/switches; fluorescent light tubes and compact fluorescent bulbs; items potentially containing PCBs (generally ballasts found within the fluorescent light fixtures); tritium powered exit signs; smoke detectors potentially containing Americium-241; and Freon-containing refrigeration systems. The aforementioned are for use by contractors conducting the removal of items from the property. Samples of suspect RBMs are not required for this type of survey, as all determinations are made by visual means.

Although not a “regulated material”, things such as gas meters, electrical meters and electrical panels are listed with the RBM inventory. These materials will require removal and/or disconnection prior to demolition. These materials should be handled with care until deemed safe.

3 Findings

3.1 ASBESTOS SURVEY

A total of 20 bulk samples including 1 duplicate sample, were collected on March 20, 2019 during the initial inspection throughout the structure. The results of the PLM analysis for the inspection is presented in Table 2 and the sample locations are located on Figure 2. No samples analyzed were positive ACMs (i.e. present greater than 1%):

Point Counts

Point count analysis occurs for samples with <1% of asbestos by PLM analysis. Point count results were not needed because the initial results all analyzing at nondetect.

Duplicate Samples

For quality assurance purposes, duplicate samples are taken approximately every 20th sample. Duplicate samples are listed as a duplicate (Q) in the sample location column of Table 2. One duplicate sample, Ceiling Tile – AP93-R5-CT7Q was collected because 20 samples were obtained.

3.2 LEAD-BASED PAINT SURVEY

A total of 4 homogeneous paint color variations were analyzed for the presence of LBPs and LCPs (Table 3; Figure 3). Under EPA 40 CFR Part 745, LBP is defined as any paint or surface coating that contains lead equal to or exceeding 0.5% (by weight), while LCP is defined as any paint or surface coating containing lead greater than or equal to 0.06% up to 0.5% (by weight). Caution should be taken during demolition to minimize cutting, abrading, or otherwise causing an air disturbance to this material and work must be completed in accordance with the OSHA Lead in Construction Standard (29 CFR 1926.62).

One lead sample (AP93-3L) was found to be greater than 0.5% by weight and is considered LBP (Table 3). The remaining 3 samples were less than the LCP and LBP thresholds, and are considered non-lead containing paint (NLC). The laboratory analytical report is included in Appendix D.

3.2.1 TCLP LEAD ANALYTICAL RESULTS

A TCLP sample was not taken because the building was occupied during the inspection. TCLP analysis simulates the potential for the demolished building materials to leach lead if placed in the landfill and results of the analysis determine if the materials will be considered hazardous waste. TCLP will need to be performed for landfill compliance and the TC maximum concentration is 5 milligrams per liter (mg/L).

3.3 REGULATED BUILDING MATERIALS INVENTORY SURVEY

Several suspect RBMs were visually identified throughout the structure. RBMs that are a cause of concern, when discovered, are discussed below. A complete list of the RBMs is presented in Table 3-3, and selected locations of the RBMs are depicted in Figure 4.

4 Conclusions and Recommendations

4.1 ASBESTOS

No ACMs were identified during the initial limited sampling event. However, an additional sampling event is required, or suspect materials not sampled during the initial should either be assumed to be ACM or should be sampled prior to disturbance.

General Regulatory Information

Prior to demolition activities, all friable and non-friable (that can or will be rendered friable) ACM that may be impacted during the demolition must be abated by a Colorado Certified Asbestos Abatement Contractor as required by NESHAP and the CDPHE – Air Pollution Control Division: Asbestos. The exception is Category I & II Non-Friable ACMs that can, with best management practices, remain during the activities and remain non-friable, i.e. not able to be reduced to a dust. Activities such as grinding, excessive munching of materials, sawing, jack-hammering, etc. are strictly prohibited.

According to AHERA, EPA, and the CDPHE, materials testing at less than or equal to 1% asbestos fibers are not considered to be an ACM. However, any materials containing asbestos still need to be regulated. OSHA protocol must be followed when handling materials containing ANY amount of asbestos. Proper PPE and engineering controls must be utilized if these materials will be impacted during demolition activities.

4.2 LEAD-BASED PAINT

Lead was detected at concentrations above the LBP threshold in 1 of the 4 samples. The remaining 3 samples are considered NLC.

TCLP results will confirm if the waste stream is hazardous with respect to lead content.

4.3 REGULATED BUILDING MATERIALS

Materials, if found during the regulated materials inventory within the building may require special handling or disposal prior to demolition activities. If abatement is needed, APEC recommends that the asbestos contractor or general contractor selected by the client properly dispose of these regulated materials, per applicable regulations.

With regards to RBMs, if listed, it is likely that the ballasts in the fluorescent light fixtures do contain PCBs. Where a manufacturer's label is present indicating "no PCBs", the ballast can be disposed of with recyclable metal or with other municipal waste. During removal for disposal as part of the demolition activities, each ballast should be visually inspected for the manufacturer's label indicating "no PCBs". If the label does not have this notation, the ballast should be considered PCB-containing and should be disposed of as a hazardous waste in accordance with local, state, and federal regulatory guidelines. Refrigerators and air conditioning units contain freon, which will need to be reclaimed or taken to a facility capable of this activity. Mercury containing thermostats will need to be disposed of at a facility certified to take this type of material. The contractor should also carefully remove all associated fluorescent light tubes and compact fluorescent lights and recycle or dispose of these materials according to applicable regulations.

This inspection was primarily relevant to the Federal UWR requirements under 40 CFR 273. It should be noted that contractors submitting bids for removal of the RBMs should verify quantities, conditions, and locations of all RBMs prior to bid submittals and initiating demolition activities. The contractor is also responsible for proper recycling and/or disposal of the RBMs, and should follow all federal, state and local regulations when handling these materials.

5 Limitations

This Structure Survey Assessment Report was prepared by All-Phase Environmental Consultants, Inc., at the request of and for the sole benefit of Kiewit Meridiam Partners, or any entity controlling, controlled by, or under common control with Colorado Department of Transportation. APECs certified inspectors used reasonable diligence and professional judgement to identify all suspect asbestos-containing materials, lead based paint, and regulated building materials in the property. APEC will not be held liable for property damage or any loss of property value due to the inspection. This report is not an abatement plan and is intended to be informational only; APEC will not be responsible for additional costs associated with future sampling, including services provided by a third party. ACM's that will be disturbed should be handled according to CDPHE, EPA protocol. Materials containing ANY amount of asbestos (1% or less) should be handled according to OSHA protocol.

APEC did not utilize destructive inspection methods in performing this survey, therefore accessibility was a limiting condition. APEC will have to inspect all areas down to the substrate, i.e. structural members, void cavities, etc. APEC will also need to perform destructive sampling on the roofing materials to verify all layers and friability. These areas will be assessed and inspected once the building is no longer in use.

If additional impacted suspect ACM or ACBM are discovered during demolition/renovations, servicing or maintenance related work for which there are no sample documentation/results, APEC recommends pursuing one of the following alternatives: Sample and analyze the discovered suspect material(s) to determine whether it contains asbestos; or assume the material(s) to be asbestos-containing materials, quantify and remove on a unit cost basis.

Notwithstanding any provision to the contrary, the total liability of "All Phase Environmental Consultants, Inc.", and its employees, officers or directors be liable in contract, tort, strict liability warranty or otherwise, for any special, incidental or consequential damages, such as but not limited to, delay, disruption, loss of product, loss of anticipated profits or revenue, damages, cost, and expenses, including attorney's fees, shall not exceed the aggregate amount paid to All Phase Environmental Consultants, Inc. under this Agreement regardless of the legal theory under which such liability is imposed.

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Table 1	Project Details
Table 2	Asbestos Samples - Field Sheet
Table 3	Summary of Paint Chip Laboratory Analysis for Lead
Table 4	Summary of Regulated Building Materials

Table 2 Field Sheet

Site Address: AP-93 3538 E. 46th Ave. - Denver, Colorado

Sampled - March 20, 2019

Functional Space ID	Homogeneous Sampling Area ID	Sample ID	Material	Layer Material	Condition	Material Location	Asbestos Content	Point Count Results	Quantity	Material Category	Friability	Hazard Ranking
Room 5	1	AP93-R5-TD1A	Knockdown Textured Drywall	Texture	Good	Located on the walls of room 5, hallway and closet 1 and the walls and ceilings of rooms 2, 3 & 4	ND	NA	~2,572 ft ²	Surfacing	Friable	NA
		AP93-R5-TD1A	Knockdown Textured Drywall	Drywall	Good		ND	NA		Surfacing	Friable	
		AP93-R5-TD1B	Knockdown Textured Drywall	Texture	Good		ND	NA		Surfacing	Friable	
		AP93-R5-TD1B	Knockdown Textured Drywall	Drywall	Good		ND	NA		Surfacing	Friable	
Room 4		AP93-R4-TD1C	Knockdown Textured Drywall	Texture	Good		ND	NA		Surfacing	Friable	
		AP93-R4-TD1C	Knockdown Textured Drywall	Drywall	Good		ND	NA		Surfacing	Friable	
Room 2		AP93-R2-TD1D	Knockdown Textured Drywall	Texture	Good		ND	NA		Surfacing	Friable	
		AP93-R2-TD1D	Knockdown Textured Drywall	Drywall	Good		ND	NA		Surfacing	Friable	
		AP93-R2-TD1E	Knockdown Textured Drywall	Texture	Good		ND	NA		Surfacing	Friable	
Room 5		AP93-R2-TD1E	Knockdown Textured Drywall	Drywall	Good		ND	NA		Surfacing	Friable	
		AP93-R5-TD2A	Light Knockdown Textured Drywall	Texture	Good		ND	NA		Surfacing	Friable	
Hallway		AP93-R5-TD2A	Light Knockdown Textured Drywall	Drywall	Good		Located on the ceilings above the drop ceiling in the hallway, room 5 and closet 1, above the main ceilings of Rooms 3, 4 and the west wall and ceiling of the mech room	ND		NA	~675 ft ²	
	AP93-H-TD2B	Light Knockdown Textured Drywall	Texture	Good	ND	NA		Surfacing	Friable			
Mech Room	AP93-H-TD2B	Light Knockdown Textured Drywall	Drywall	Good	ND	NA		Surfacing	Friable			
	AP93-M-TD2C	Light Knockdown Textured Drywall	Texture	Good	ND	NA		Surfacing	Friable			
Room 5	AP93-M-TD2C	Light Knockdown Textured Drywall	Drywall	Good	ND	NA	Surfacing	Friable				
	AP93-R5-FT3A	Floor Tile/Mastic	Floor Tile	Good	Directly on concrete in rooms 2, 3, 4, 5, hallway and closet 1	ND	NA	~1,080 ft ²	Miscellaneous	Non-Friable	NA	
Room 2	AP93-R5-FT3A	Floor Tile/Mastic	Mastic	Good		ND	NA		Miscellaneous	Non-Friable		
	AP93-R2-FT3B	Floor Tile/Mastic	Floor Tile	Good		ND	NA		Miscellaneous	Non-Friable		
AP93-R2-FT3B	Floor Tile/Mastic	Mastic	Good	ND		NA	Miscellaneous		Non-Friable			
Mech Room	4	AP93-M-DJ4A	Drywall/Tape/Joint Compound	Texture	Good	Located on the north, east and south walls of the mechanical room and around the door from room 1 to room 2	ND	NA	~320 ft ²	Surfacing	Friable	NA
		AP93-M-DJ4A	Drywall/Tape/Joint Compound	Tape	Good		ND	NA		Surfacing	Friable	
		AP93-M-DJ4A	Drywall/Tape/Joint Compound	Joint Compound	Good		ND	NA		Surfacing	Friable	
		AP93-M-DJ4A	Drywall/Tape/Joint Compound	Drywall	Good		ND	NA		Surfacing	Friable	
		AP93-M-DJ4B	Drywall/Tape/Joint Compound	Joint Compound	Good		ND	NA		Surfacing	Friable	
		AP93-M-DJ4B	Drywall/Tape/Joint Compound	Drywall	Good		ND	NA		Surfacing	Friable	
Room 1	AP93-R1-DJ4C	Drywall/Tape/Joint Compound	Joint Compound	Good	ND	NA	Surfacing	Friable				
	AP93-R1-DJ4C	Drywall/Tape/Joint Compound	Drywall	Good	ND	NA	Surfacing	Friable				
Room 2	5	AP93-R2-CB5A	Cove Base/Mastic	Cove Base	Good	In rooms 2, 3, 4, 5, hallway and closet 1	ND	NA	~205 LF	Miscellaneous	Non-Friable	NA
		AP93-R2-CB5A	Cove Base/Mastic	Mastic	Good		ND	NA		Miscellaneous	Non-Friable	
AP93-R5-CB5B		Cove Base/Mastic	Cove Base	Good	ND		NA	Miscellaneous		Non-Friable		
AP93-R5-CB5B		Cove Base/Mastic	Mastic	Good	ND		NA	Miscellaneous		Non-Friable		
Hallway	6	AP93-H-IN6A	Insulation (Below Roof)	Insulation	Good	Located on the ceilings directly below the roofing deck throughout minus room 1	ND	NA	~750 ft ²	Surfacing	Friable	NA
		AP93-R5-IN6B	Insulation (Below Roof)	Insulation	Good		ND	NA		Surfacing	Friable	
Room 5	7	AP93-R5-CT7A	Ceiling Tile	Ceiling Tile	Good	Drop Ceiling in rooms 2, 5 and the hallway	ND	NA	~750 ft ²	Miscellaneous	Friable	NA
		AP93-R5-CT7B	Ceiling Tile	Ceiling Tile	Good		ND	NA		Miscellaneous	Friable	
		AP93-R5-CT7Q	Ceiling Tile	Ceiling Tile	Good		ND	NA		Miscellaneous	Friable	

Red = Positive

Blue = OSHA

ND = None Detected

NA = Not Applicable

ft² = square feet

TBD = To be determined upon demo

SD = Significantly Damaged

PS = Positive Stop

LF = Linear Feet

> = Greater Than

< = Less Than

~ = Approximated

1. Damaged or significantly damaged thermal system insulation ACM.

2. Damaged friable surfacing ACM.

3. Significantly damaged friable surfacing ACM.

4. Damaged or significantly damaged friable miscellaneous ACM.

5. ACBM with potential for damage.

6. ACBM with potential for significant damage.

7. Any remaining friable ACBM or friable suspected ACBM.

Per AHERA and State of Colorado, materials tested at less than or equal to (<1%asbestos are not considered to be an asbestos containing material.

Materials containing ANY amount of asbestos should be handled according OSHA protocol.

Table 3 Summary of Paint Chip Analysis for Lead

Sample Number	Sample Location	Lead Concentration (% wt.)	Component	Paint Description	Classification
AP93-1L	Room 5 Closet	<0.0080	Drywall	White	NLC
AP93-2L	Exterior North Wall	0.021	Metal	Gray	NLC
AP93-3L	Exterior Barrier Poles	2.700	Metal	Yellow	LBP
AP93-4L	Exterior Door	<0.0080	Metal	Dark Gray	NLC

Table 4 Summary of Regulated Building Materials

Room	Material	Location	Quantity Fixture/Bulbs each
1	Fluorescent Lighting	Ceiling and one on Northwest wall	7 Fixtures/16 bulbs
1	Halogen Flood Lighting	Ceiling	4
1	Exit sign	Over Door	1
2	Fluorescent Lighting	Ceiling	6 Fixtures/12 bulbs
Mech Room	Furnace	East side	1
5	Fluorescent Lighting	Ceiling	6 Fixtures/12 bulbs
5	Exit sign	Over Door	1
5	Thermostat Hg	South wall	1

Figures

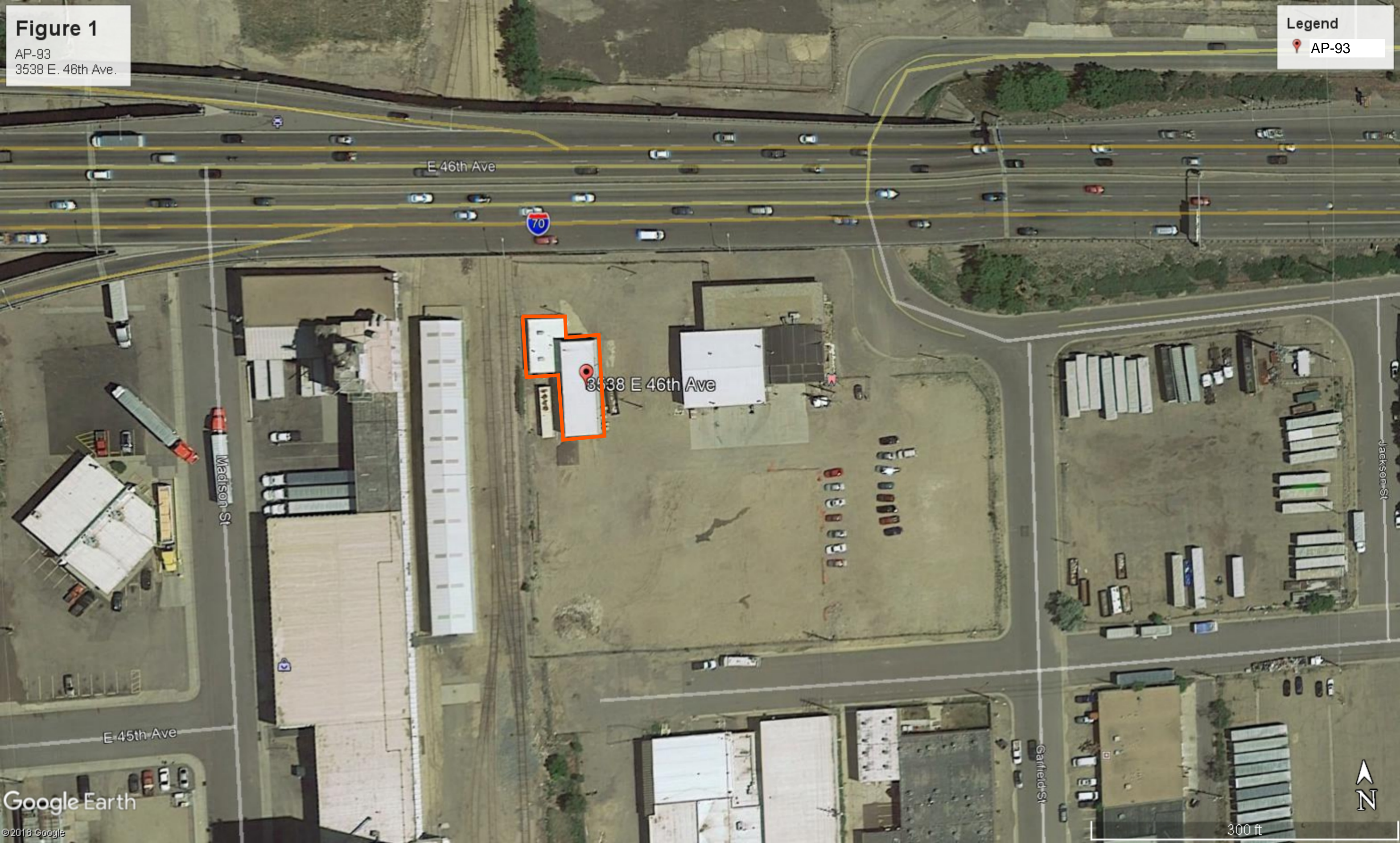
- Figure 1 Site Location
- Figure 2 Asbestos Sampling Maps (2, 2a)
- Figure 3 Lead-Based Paint Sample Locations
- Figure 4 Regulated Building Materials

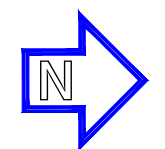
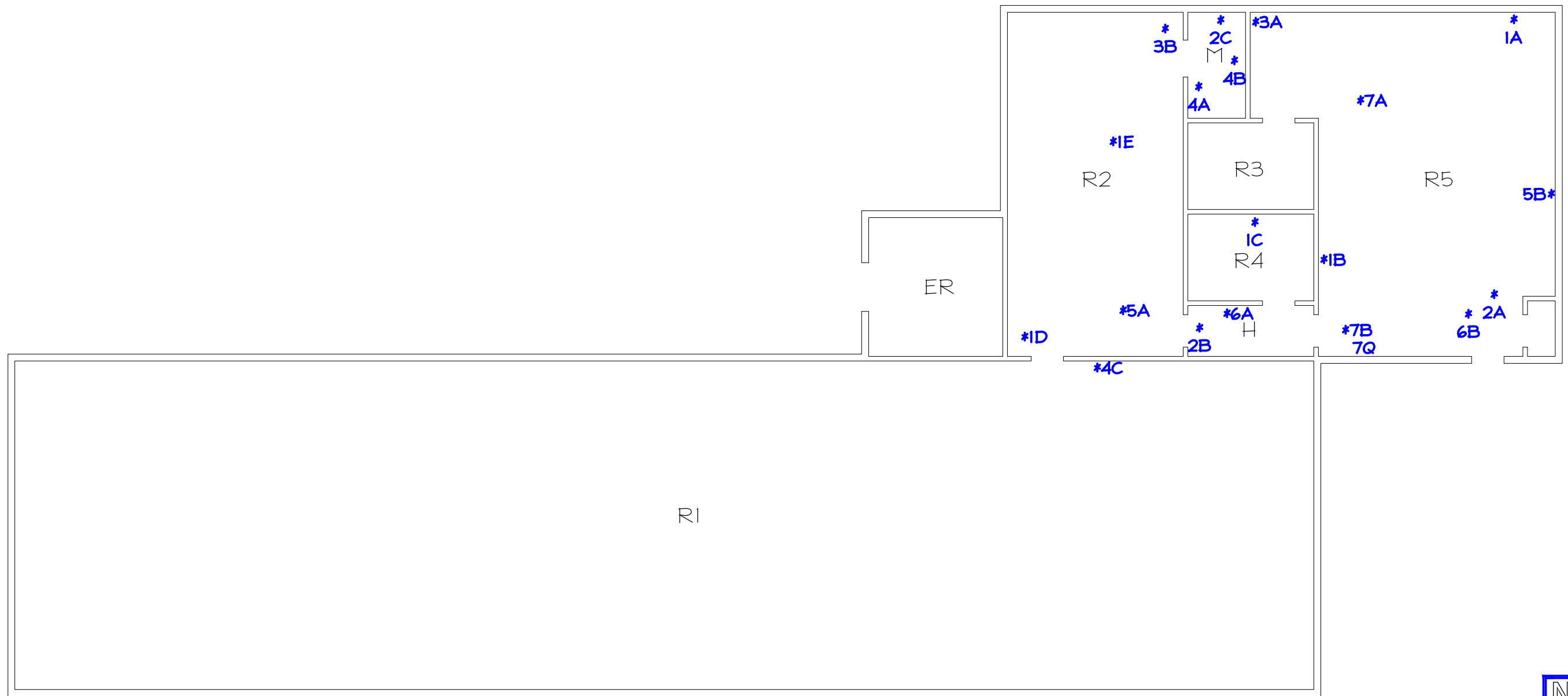
Figure 1

AP-93
3538 E. 46th Ave.

Legend

AP-93






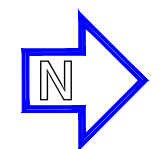
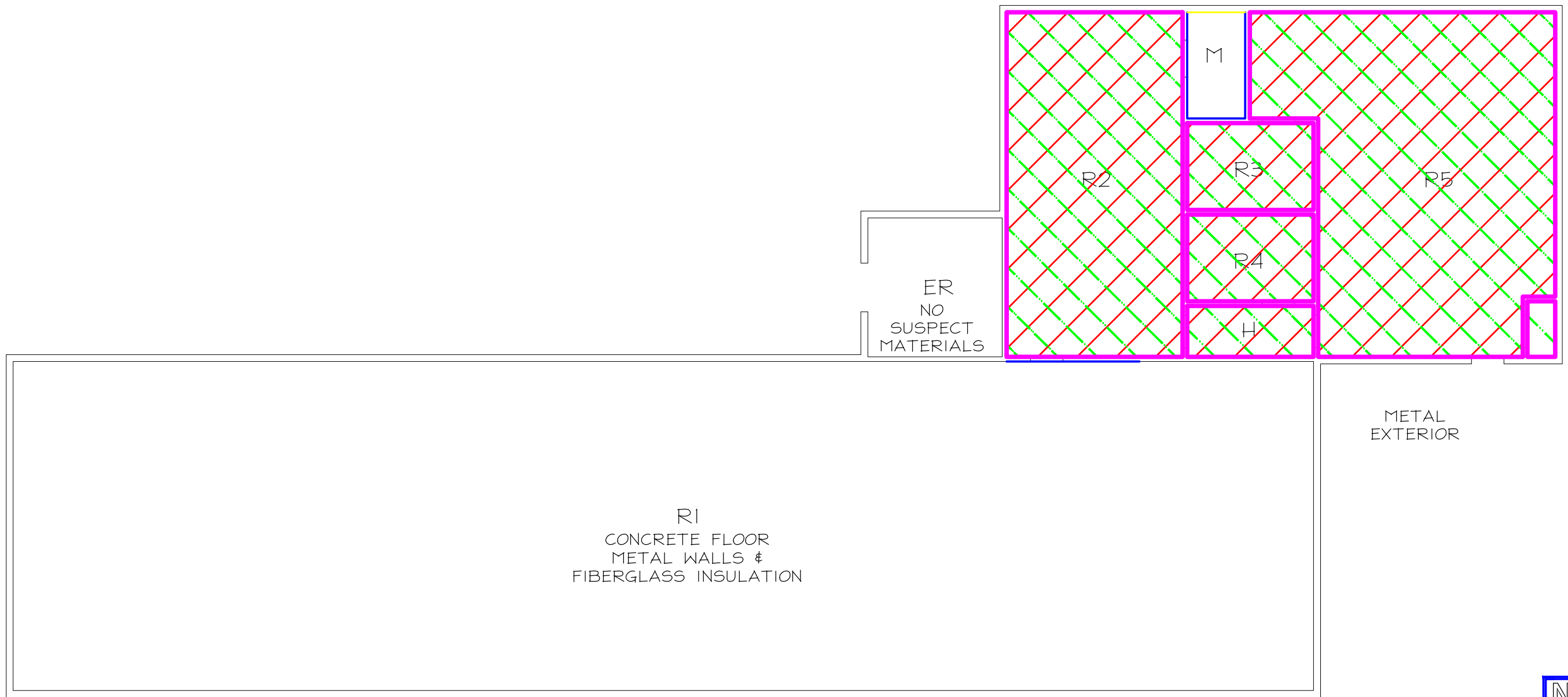
APPROVED: B.N.E.
SCALE: 1/8" = 1'-0"

- R1 = Room Numbers
- #4B = Asbestos Samples (Detect)
- #4B = Asbestos Samples (Non-Detect)

FIGURE 2 - Asbestos Bulk Sample Locations
CENTRAL 70 - Structure Survey Assessment Map
AP-93
 3538 E. 46th Ave., Denver, CO
 March 20, 2019
 APEC #: 19-3447



ALL-PHASE
 ENVIRONMENTAL CONSULTANTS, INC.
 721 W 9TH STREET
 Pueblo, CO 81003 Ph: (719) 545-0375




DR BY: R.A.
 APPROVED: B.N.E.
 SCALE: 1/8" = 1'-0"

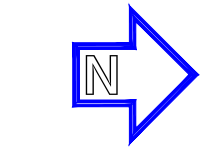
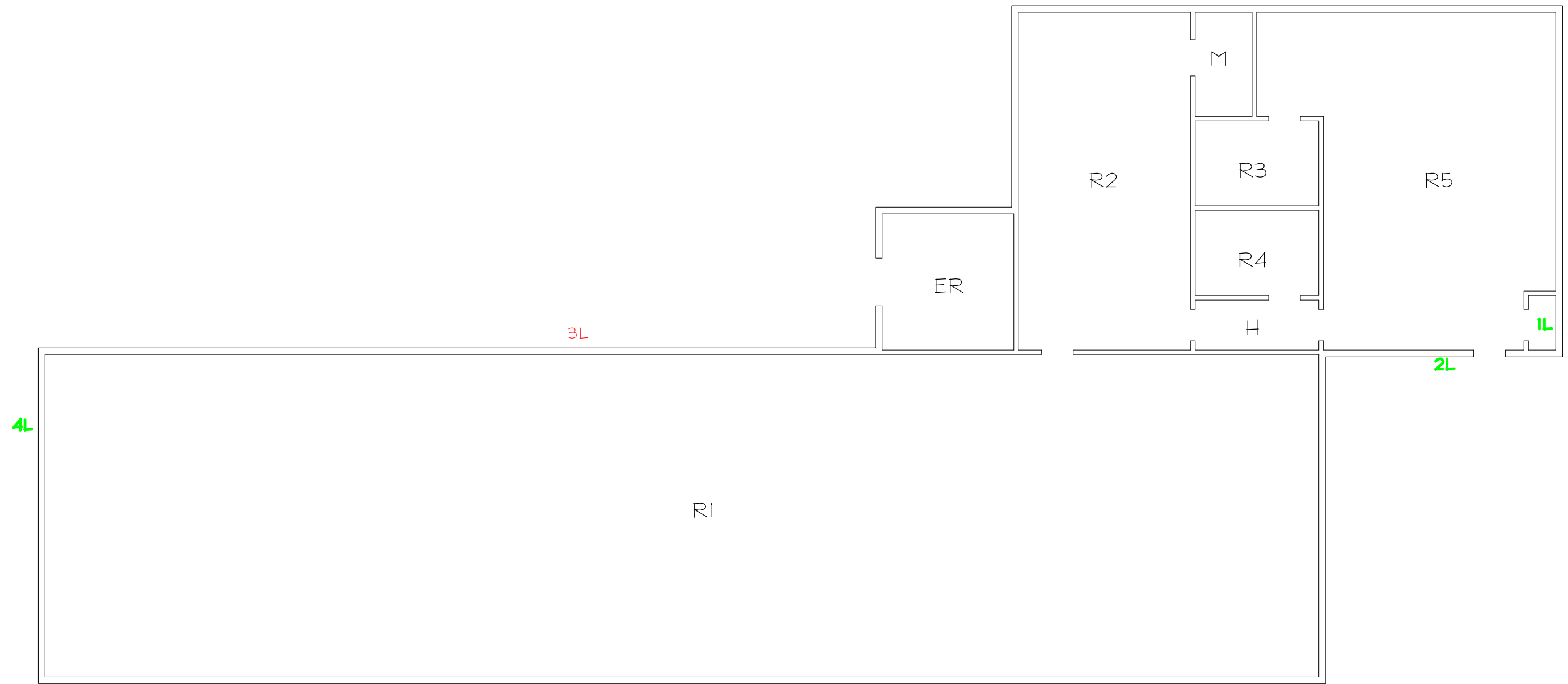
RI = Room Numbers
 | = Walls
 \ / = Ceiling
 / \ = Floors

| = Knockdown Textured Drywall
 | = Light Knockdown Texture & Drywall
 | = Drywall/Tape/Joint Compound
 | = Floor Tile
 | = Ceiling Tile

FIGURE 2a - Homogeneous Locations Map
CENTRAL 70 - Structure Survey Assessment Map
AP-93
 3538 E. 46th Ave., Denver, CO
 March 20, 2019
 APEC #: 19-3447




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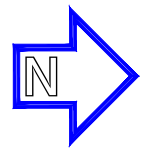
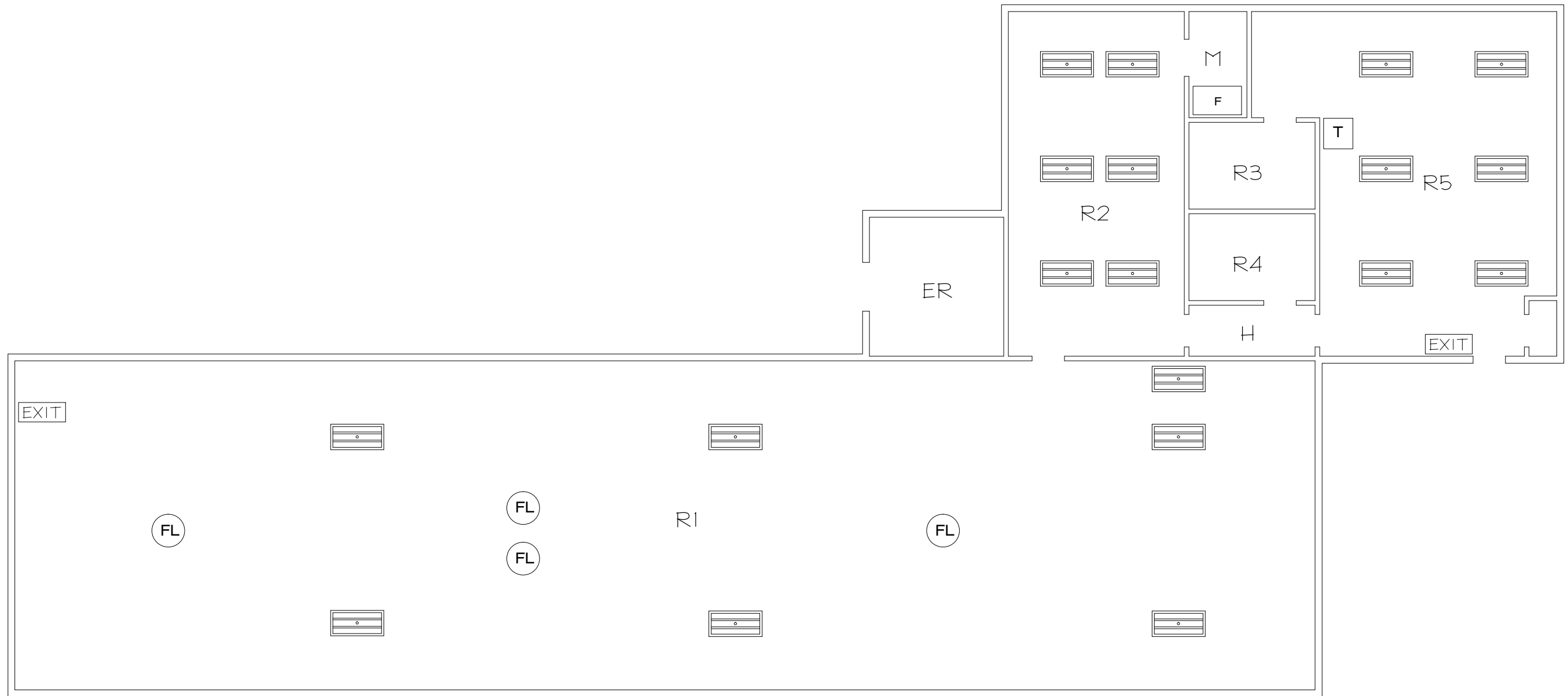
DR BY: R.A.
 APPROVED: B.N.E.
 SCALE: 1/8" = 1'-0"

- R1 = Room Numbers
- 4 = Lead Base Paint (Detect)
- 4 = Lead Base Paint (Non-Detect)

FIGURE 3 - Lead Based Paint Sample Location
CENTRAL 70 - Structure Survey Assessment Map
AP-93
 3538 E. 46th Ave., Denver, CO
 March 20, 2019
 APEC #: 18-3066



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 Pueblo, CO 81003 Ph: (719) 545-0375



DR BY: R.A.
 APPROVED: B.N.E.
 SCALE: 1/8" = 1'-0"

R1 = Room Numbers

FL = FLOOD LIGHT

F = Furnace

Halogen Lights

T = Thermostat

EXIT = Exit Sign

FIGURE 4 - Regulated Building Material
 CENTRAL 70 - Structural Survey Assessment Map
 AP-93
 3538 E. 46th Ave., Denver, CO
 March 20, 2019
 APEC #: 18-3066

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A

ASBESTOS, LEAD AND LABORATORY CERTIFICATIONS



Colorado Department
of Public Health
and Environment

ASBESTOS CERTIFICATION*

This certifies that

Logan Greenfield

Certification No.: 20715

has met the requirements of 25-7-507, C.R.S. and Air Quality Control
Commission Regulation No. 8, Part B, and is hereby certified by the
state of Colorado in the following discipline:

Building Inspector*

Issued: September 13, 2018

Expires: October 18, 2019

** This certificate is valid only with the possession of a
current Division-approved training course certification
in the discipline specified above.*

Jaqueline Borso
Authorized APCD Representative

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Denver, CO 80221,
United States of America

CERTIFICATE OF ACHIEVEMENT

This certificate is awarded to:

LOGAN GREENFIELD

In recognition of satisfactory completion of the EPA-approved annual asbestos
refresher training course under section 206 of the Toxic Substance Control Act (TSCA),

Title II entitled:

BUILDING INSPECTOR

COURSE DATE:

SEPTEMBER 12, 2018

EXPIRATION DATE

SEPTEMBER 12, 2019

COURSE HOURS:

4.0



Verify this Credential

Danaya N. Benedetto
CEO & Training Program Manager

Credential License ID:
11943552



Daniel R. Beaver
Instructor

CHC Training Certificate No.
R18-1729-AI-CO



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303.412.6360
855.60.CERTIFY

1775 West 55th Avenue
Denver, CO 80221,
United States of America
Colorado State Approval No. 23563

CERTIFICATE OF ACHIEVEMENT

This certificate is awarded to:

RICHARD RALSTON

Has successfully completed the required training hours for the refresher course entitled:

LEAD-BASED PAINT RISK ASSESSOR

For the purposes of accreditation under Colorado Regulation No. 19, Residential Lead-based Paint Hazard Reduction Act of 1992 (Title X), and other standards developed by the EPA pursuant to Title IV of TSCA.

COURSE DATE:	FEBRUARY 26, 2019
EXPIRATION DATE:	FEBRUARY 26, 2022
COURSE HOURS:	8.0

Danaya N. Benedetto
CEO & Training Program Manager

Credential License ID:
12590738



Aaron Hix
Instructor

CHC Training Certificate No.
R19-0025-LRA-CO



Verify this Credential



Visit our Website



Colorado Department
of Public Health
and Environment

ASBESTOS LABORATORY

This certifies that

EMSL Analytical, Inc. - Denver

Registration No.: AL - 15063

has met the registration requirements of 25-7-507, C.R.S. and the Air Quality Control Commission Regulation No. 8, Part B, and is hereby authorized to perform asbestos laboratory testing activities, as required by Regulation No 8, Part B, in the state of Colorado.

Issued: November 28, 2018

Expires: January 30, 2020

Authorized APCD Representative

SEAL



Accredited Laboratory

A2LA has accredited

EMSL ANALYTICAL, INC.

Cinnaminson, NJ

for technical competence in the field of

Environmental Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets the requirements of A2LA R207 – *Specific Requirements - Environmental Lead Testing Laboratory Accreditation Program*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).



Presented this 8th of May 2017.

A handwritten signature in blue ink, written over a horizontal line.

President and CEO
For the Accreditation Council
Certificate Number 2845.01
Valid to May 31, 2019

For the tests to which this accreditation applies, please refer to the laboratory's Environmental Scope of Accreditation.



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

EMSL ANALYTICAL, INC.
 200 Route 130 North
 Cinnaminson, NJ 08077
 Oommen Kappil Phone: 856 303 2550

ENVIRONMENTAL

Valid To: May 31, 2019

Certificate Number: 2845.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform recognized EPA methods using the following testing technologies and in the analyte categories identified below; for the test methods applicable to the National Environmental Lead Laboratory Accreditation Program (NLLAP).

ENVIRONMENTAL LEAD	
Test	Test Method(s)
Total Lead (Pb) in Soil	EMSL Analytical, Inc. LM-007A (Modified EPA 7000B - (FLAA), 3050 Hotblock Digestion)
Total Lead (Pb) in Paint Chips	EMSL Analytical, Inc. LM-007B (Modified EPA 7000B - (FLAA), 3050 Hotblock Digestion)
Total Lead (Pb) in Dust Wipes	EMSL Analytical, Inc. LM-007C (Modified EPA 7000B - (FLAA), 3050 Hotblock Digestion)
AIR MATRIX*	
Test	Test Method(s)
Total Lead (Pb) in Air	NIOSH 7082 - (FLAA)
Total Lead (Pb) in Air	NIOSH 7105 - (GFAA)
Total Metals in Air	EMSL Analytical, Inc. LM-003 (Modified NIOSH 7300 for ICP/ICP-MS)
Inorganic Fibrous Particles by SEM method	German VDI 3492
Inorganic Fibrous Particles by SEM method	ISO 14966
Combustion-by-Products (black carbon/soot, char, and ash	ASTM D6602

BULK MATRIX*	
Test	Test Method(s)
Determination of Asbestos in Technical Products by SEM method	German VDI 3866 Part 5
Combustion-by-Products (black carbon/soot, char and ash)	ASTM D6602

*Not NLLAP program

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on Children's Products: ⁽¹⁾

CHEMICAL	
Test	Test Method(s)
Lead in Paint and Surface Coatings	16 CFR 1303 (using ASTM E1613 and E1645); CPSC-CH-E1003-09.1
Total Lead in Children's Metal Jewelry	CPSC-CH-E1001-08.1
Total Lead in Children's Metal Products	CPSC-CH-E1001-08.1
Total Lead in Children's Non-Metal Products	CPSC-CH-E1002-08
Phthalates	CPSC-CH-C1001-09.3 (using EPA SW-846 8270)
Soluble Heavy Metals Content (As, Ba, Cd, Cr, Pb, Hg, Sb, Se)	ASTM F 963-11 Section 4.3.5.1 & Section 4.3.5.2
Total Cadmium in Children's Metal Products Including Children's Metal Jewelry	EMSL Analytical, Inc. LM-016, (Modified CPSC-CH-E1001-08.1)
Total Cadmium in Children's Non Metal Products	EMSL Analytical, Inc. LM-016, (Modified CPSC-CH-E1002-08)

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on Brake Friction Materials:

ASBESTOS ANALYSIS	
Test	Test Method(s)
Sample Preparation by Drilling	SAE J2975
Polarized Light Microscopy	SAE J2975, EPA 600/R-93/116
Transmission Electron Microscopy	ISO 10312 (direct method)
Transmission Electron Microscopy	ISO 13794 (indirect method)

¹ The Consumer Product Safety Improvement Act (CPSIA) requires that every children's product subject to a federal consumer product safety requirement be tested by a Consumer Product Safety Commission (CPSC) accepted laboratory for compliance with the applicable federal children's product safety requirements. Accreditation by A2LA does not infer acceptance by the CPSC. Please verify this organization's acceptance status by using the CPSC's searchable database, located at <http://www.cpsc.gov/cgi-bin/labsearch/>.



B

POSITIVE LEAD SAMPLE MATERIAL PHOTOGRAPHS



LBP – Yellow

Sample Represented –
AP93-3L

C

LABORATORY RESULTS & CHAIN OF CUSTODY- ASBESTOS



EMSL Analytical, Inc.

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<http://www.EMSL.com> / denverlab@emsl.com

EMSL Order: 221902351
Customer ID: ALLP62
Customer PO:
Project ID:

Attention: Logan Greenfield
All-Phase Environmental Consultants, Inc
721 West 9th Street
Pueblo, CO 81003

Phone: (719) 250-0036
Fax: (719) 542-2807
Received Date: 03/21/2019 10:15 AM
Analysis Date: 03/27/2019 - 03/28/2019
Collected Date: 03/20/2019

Project: 19-3447-CDOT-A-AP93

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
AP93-R5-TD1A-Texture 221902351-0001	KNOCKDOWN TEXTURED DRYWALL	White Non-Fibrous Heterogeneous		20% Ca Carbonate 80.0% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
AP93-R5-TD1A-Dry wall 221902351-0001A	KNOCKDOWN TEXTURED DRYWALL	White Fibrous Homogeneous	15% Cellulose <1% Glass	65% Gypsum 20.0% Non-fibrous (Other)	None Detected
AP93-R5-TD1B-Texture 221902351-0002	KNOCKDOWN TEXTURED DRYWALL	White Non-Fibrous Heterogeneous		20% Ca Carbonate 80.0% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
AP93-R5-TD1B-Dry wall 221902351-0002A	KNOCKDOWN TEXTURED DRYWALL	White Fibrous Homogeneous	15% Cellulose	65% Gypsum 20.0% Non-fibrous (Other)	None Detected
AP93-R4-TD1C-Texture 221902351-0003	KNOCKDOWN TEXTURED DRYWALL	White Non-Fibrous Heterogeneous		20% Ca Carbonate 80.0% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
AP93-R4-TD1C-Dry wall 221902351-0003A	KNOCKDOWN TEXTURED DRYWALL	White Fibrous Homogeneous	15% Cellulose	65% Gypsum 20.0% Non-fibrous (Other)	None Detected
AP93-R2-TD1D-Texture 221902351-0004	KNOCKDOWN TEXTURED DRYWALL	White Non-Fibrous Homogeneous		20% Ca Carbonate 80.0% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
AP93-R2-TD1D-Dry wall 221902351-0004A	KNOCKDOWN TEXTURED DRYWALL	Brown/White Fibrous Homogeneous	15% Cellulose	65% Gypsum 20.0% Non-fibrous (Other)	None Detected

EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

Initial report from: 03/28/2019 09:37:24



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<http://www.EMSL.com> / denverlab@emsl.com

EMSL Order: 221902351
Customer ID: ALLP62
Customer PO:
Project ID:

Attention: Logan Greenfield
All-Phase Environmental Consultants, Inc
721 West 9th Street
Pueblo, CO 81003
Project: 19-3447-CDOT-A-AP93

Phone: (719) 250-0036
Fax: (719) 542-2807
Received Date: 03/21/2019 10:15 AM
Analysis Date: 03/27/2019 - 03/28/2019
Collected Date: 03/20/2019

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
AP93-R2-TD1E-Texture 221902351-0005	KNOCKDOWN TEXTURED DRYWALL	White Non-Fibrous Homogeneous		20% Ca Carbonate 80.0% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
AP93-R2-TD1E-Drywall 221902351-0005A	KNOCKDOWN TEXTURED DRYWALL	Brown/White Fibrous Homogeneous	15% Cellulose	65% Gypsum 20.0% Non-fibrous (Other)	None Detected
AP93-R5-TD2A-Texture 221902351-0006	LIGHT KNOCKDOWN TEXTURED DRYWALL	White Non-Fibrous Heterogeneous		20% Ca Carbonate 80.0% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
AP93-R5-TD2A-Drywall 221902351-0006A	LIGHT KNOCKDOWN TEXTURED DRYWALL	White Fibrous Homogeneous	15% Cellulose <1% Glass	65% Gypsum 20.0% Non-fibrous (Other)	None Detected
AP93-H-TD2B-Texture 221902351-0007	LIGHT KNOCKDOWN TEXTURED DRYWALL	White Non-Fibrous Heterogeneous		20% Ca Carbonate 80.0% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
AP93-H-TD2B-Drywall 221902351-0007A	LIGHT KNOCKDOWN TEXTURED DRYWALL	White Fibrous Homogeneous	15% Cellulose <1% Glass	65% Gypsum 20.0% Non-fibrous (Other)	None Detected
AP93-M-TD2C-Texture 221902351-0008	LIGHT KNOCKDOWN TEXTURED DRYWALL	White Non-Fibrous Homogeneous		20% Ca Carbonate 80.0% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
AP93-M-TD2C-Drywall 221902351-0008A	LIGHT KNOCKDOWN TEXTURED DRYWALL	Brown/White Fibrous Homogeneous	15% Cellulose	65% Gypsum 20.0% Non-fibrous (Other)	None Detected
AP93-R5-FT3A-Floor Tile 221902351-0009	FLOOR TILE/MASTIC	Beige Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected

EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

Initial report from: 03/28/2019 09:37:24



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Project: 19-3447-CDOT-A-AP93

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
AP93-R5-FT3A-Mastic 221902351-0009A	FLOOR TILE/MASTIC	Yellow Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
AP93-R2-FT3B-Floor Tile 221902351-0010	FLOOR TILE/MASTIC	Beige Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
AP93-R2-FT3B-Mastic 221902351-0010A	FLOOR TILE/MASTIC	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
AP93-M-DJ4A-Texture 221902351-0011	DRYWALL/TAPE/JOINT CPMPOUND	White Non-Fibrous Homogeneous		20% Ca Carbonate 80.0% Non-fibrous (Other)	None Detected
AP93-M-DJ4A-Tape 221902351-0011A	DRYWALL/TAPE/JOINT CPMPOUND	White Fibrous Homogeneous	98% Cellulose	2.0% Non-fibrous (Other)	None Detected
AP93-M-DJ4A-Joint Compound 221902351-0011B	DRYWALL/TAPE/JOINT CPMPOUND	White Non-Fibrous Homogeneous		20% Ca Carbonate 80.0% Non-fibrous (Other)	None Detected
AP93-M-DJ4A-Drywall 221902351-0011C	DRYWALL/TAPE/JOINT CPMPOUND	White Fibrous Homogeneous	15% Cellulose <1% Glass	60% Gypsum 25.0% Non-fibrous (Other)	None Detected
AP93-M-DJ4B-Joint Compound 221902351-0012	DRYWALL/TAPE/JOINT CPMPOUND	White Non-Fibrous Homogeneous		20% Ca Carbonate 80.0% Non-fibrous (Other)	None Detected
AP93-M-DJ4B-Drywall 221902351-0012A	DRYWALL/TAPE/JOINT CPMPOUND	White Fibrous Homogeneous	15% Cellulose <1% Glass	65% Gypsum 20.0% Non-fibrous (Other)	None Detected
AP93-R1-DJ4C-Joint Compound 221902351-0013	DRYWALL/TAPE/JOINT CPMPOUND	White Non-Fibrous Homogeneous		15% Ca Carbonate 85.0% Non-fibrous (Other)	None Detected

EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

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Collected Date: 03/20/2019

Project: 19-3447-CDOT-A-AP93

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
AP93-R1-DJ4C-Dry wall 221902351-0013A	DRYWALL/TAPE/JOINT CPMPOUND	Brown/White Fibrous Homogeneous	15% Cellulose	65% Gypsum 20.0% Non-fibrous (Other)	None Detected
AP93-R2-CB5A-Cove Base 221902351-0014	COVE BASE/MASTIC	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
AP93-R2-CB5A-Mastic 221902351-0014A	COVE BASE/MASTIC	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
AP93-R5-CB5B-Cove Base 221902351-0015	COVE BASE/MASTIC	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
AP93-R5-CB5B-Mastic 221902351-0015A	COVE BASE/MASTIC	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
AP93-H-IN6A 221902351-0016	INSULATION (BELOW ROOF)	Yellow Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
AP93-H-IN6B 221902351-0017	INSULATION (BELOW ROOF)	Brown/Tan Fibrous Homogeneous	5% Synthetic	95.0% Non-fibrous (Other)	None Detected
AP93-R5-CT7A 221902351-0018	CEILING TILE	Beige Fibrous Homogeneous	45% Cellulose 30% MinWool	25.0% Non-fibrous (Other)	None Detected
AP93-R5-CT7B 221902351-0019	CEILING TILE	Beige Fibrous Homogeneous	45% Cellulose 30% MinWool	25.0% Non-fibrous (Other)	None Detected
AP93-R5-CT7Q 221902351-0020	CEILING TILE	Gray/White Fibrous Homogeneous	65% Cellulose 15% MinWool	20.0% Non-fibrous (Other)	None Detected

EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

Initial report from: 03/28/2019 09:37:24



EMSL Analytical, Inc.

1010 Yuma Street Denver, CO 80204
Tel/Fax: (303) 740-5700 / (303) 741-1400
<http://www.EMSL.com> / denverlab@emsl.com

EMSL Order: 221902351
Customer ID: ALLP62
Customer PO:
Project ID:

Attention: Logan Greenfield
All-Phase Environmental Consultants, Inc
721 West 9th Street
Pueblo, CO 81003

Phone: (719) 250-0036
Fax: (719) 542-2807
Received Date: 03/21/2019 10:15 AM
Analysis Date: 03/27/2019 - 03/28/2019
Collected Date: 03/20/2019

Project: 19-3447-CDOT-A-AP93

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk materials via EPA/600 (0513) Method using Polarized Light Microscopy. The reference number for these samples is the EMSL Order ID above. Please use this reference number when calling about these samples.

Report Comments:

Sample Receipt Date:	03/21/2019	Sample Receipt Time:	10:15 AM
Analysis Completed Date:	03/28/2019	Analysis Completed Time:	9:35 AM

Analyst(s):

Amanda Hammer PLM (23)

Molly Elkins PLM (14)

Samples Reviewed and approved by:

Melanie Rech, Laboratory Director
or other approved signatory

EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

Initial report from: 03/28/2019 09:37:24



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

221902351

Denver, CO 80204
PHONE: (303) 740-5700
FAX: (303) 741-1400

Company: All-Phase Environmental Consultants, Inc.		EMSL-Bill to: <input type="checkbox"/> Different <input checked="" type="checkbox"/> Same <small>If Bill to is Different note instructions in Comments**</small>	
Street: 721 W. 9th Street		Third Party Billing requires written authorization from third party	
City: Pueblo	State/Province: CO	Zip/Postal Code: 81003	Country: United States
Report To (Name): Logan Greenfield		Telephone #: 719-250-0036	
Email Address: logan@allphaseenvironmental.com		Fax #:	Purchase Order:
Project Name/Number: 19-3447-CDDT-A-AP93		Please Provide Results: <input type="checkbox"/> FAX <input checked="" type="checkbox"/> E-mail <input type="checkbox"/> Mail	
U.S. State Samples Taken: CO		Connecticut Samples: <input type="checkbox"/> Commercial <input type="checkbox"/> Residential	

Turnaround Time (TAT) Options* - Please Check

3 Hour
 6 Hour
 24 Hour
 48 Hour
 72 Hour
 96 Hour
 1 Week
 2 Week

*For TEM Air 3 hr through 6 hr, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

PCM - Air <input type="checkbox"/> Check if samples are from NY <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA	TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA only) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312	TEM - Dust <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167)
PLM - Bulk (reporting limit) <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NYS 198.1 (friable in NY) <input type="checkbox"/> NYS 198.6 NOB (non-friable-NY) <input type="checkbox"/> NIOSH 9002 (<1%)	TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5	Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - C (0.01% sensitivity) <input type="checkbox"/> TEM Qual. via Filtration Technique <input type="checkbox"/> TEM Qual. via Drop-Mount Technique
<input type="checkbox"/> Check For Positive Stop - Clearly Identify Homogenous Group		TEM - Water: EPA 100.2 Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking

Filter Pore Size (Air Samples): 0.8µm 0.45µm

Samplers Name: Logan Greenfield Samplers Signature: *[Signature]*

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
AP93-R5-TD1A	Knockdown textured Drywall	—	3-20-19
AP93-R5-TD1B	↓	—	↓
AP93-R4-TD1C	↓	—	↓
AP93-R2-TD1D	↓	—	↓
AP93-R2-TD1E	↓	—	↓
AP93-R5-TD2A	Light Knockdown textured Drywall	—	↓
AP93-H-TD2B	↓	—	↓
AP93-M-TD2C	↓	—	↓

Client Sample # (s): - Total # of Samples: 20

Relinquished (Client): *[Signature]* Date: 3-20-19 Time: 600

Received (Lab): *[Signature]* Date: 3/21/19 Time: 10:15 am

Comments/Special Instructions:

7956 9558 2385 3/6



EMSL ANALYTICAL, INC
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody
EMSL Order Number (Lab Use Only)

[Empty box for EMSL Order Number]

Denver, CO 80204
Phone (303) 740-5700
Fax (303) 741-1400

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled	
AP93-R5-FT3A	Floor tile/Mastic	—	3-20-19	
AP93-R2-FT3B	↓	—	↓	
AP93-M-DJ4A	Drywall/Tape/Joint Compound	—		
AP93-M-DJ4B	↓	—		
AP93-R1-DJ4C	↓	—		
AP93-R2-CB5A	Cove Base/Mastic	—		
AP93-R5-CB5B	↓	—		
AP93-H-IN6A	Insulation (Below Roof)	—		
AP93-R5-IN6B	↓	—		
AP93-R5-CT7A	Ceiling tile	—		
AP93-R5-CT7B	↓	—		
AP93-R5-CT7Q	↓	—		
/				
*Comments/Special Instructions:				

D

LABORATORY RESULTS & CHAIN OF CUSTODY - LEAD



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 786-5974

<http://www.EMSL.com>

cinnaminsonleadlab@emsl.com

EMSL Order: 201902856

CustomerID: ALLP62

CustomerPO:

ProjectID:

Attn: **Logan Greenfield**
All-Phase Environmental Consultants, Inc
721 West 9th Street
Pueblo, CO 81003

Phone: (719) 545-0375
Fax: (719) 542-2807
Received: 03/22/19 10:15 AM
Collected: 3/20/2019

Project: 19-3447-CDOT-L-AP93

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Weight</i>	<i>Lead Concentration</i>
AP93-1L Site: R5 - Closet / White	201902856-0001	3/20/2019	3/28/2019	0.2704 g	<0.0080 % wt
AP93-2L Site: EX - North End Wall / Gray	201902856-0002	3/20/2019	3/28/2019	0.2875 g	0.021 % wt
AP93-3L Site: EX - Poles - SW End / Yellow	201902856-0003	3/20/2019	3/28/2019	0.2514 g	2.7 % wt
AP93-4L Site: EX - South Door / Dark Gray	201902856-0004	3/20/2019	3/28/2019	0.2563 g	<0.0080 % wt

Phillip Worby, Lead Laboratory Manager
or other approved signatory

*Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.008 % wt based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements unless specifically indicated otherwise. Definitions of modifications are available upon request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, AIHA-LAP, LLC ELLAP 100194, A2LA 2845.01

Initial report from 03/29/2019 11:56:21

Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

201902856

PHONE:

FAX:

Company: <u>All-Phase Environmental Consultants, Inc.</u>		EMSL-Bill to: <input type="checkbox"/> Different <input checked="" type="checkbox"/> Same <small>If Bill to is Different note instructions in Comments**</small>	
Street: <u>721 W. 9th Street</u>		<i>Third Party Billing requires written authorization from third party</i>	
City: <u>Pueblo</u>	State/Province: <u>CO</u>	Zip/Postal Code: <u>81003</u>	Country:
Report To (Name): <u>Logan Greenfield</u>		Telephone #: <u>719-250-0036</u>	
Email Address: <u>logan@allphaseenvironmental.com</u>		Fax #:	Purchase Order:
Project Name/Number: <u>19-3447-CDDT-L-AP93</u>		Please Provide Results: <input type="checkbox"/> FAX <input checked="" type="checkbox"/> E-mail <input type="checkbox"/> Mail	
U.S. State Samples Taken: <u>CO</u>		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	

Turnaround Time (TAT) Options* - Please Check

3 Hour
 6 Hour
 24 Hour
 48 Hour
 72 Hour
 96 Hour
 1 Week
 2 Week

*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips <input checked="" type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm ² <input type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%	<input checked="" type="checkbox"/>
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	<input type="checkbox"/>
Wipe* <input type="checkbox"/> ASTM <input type="checkbox"/> non ASTM *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	<input type="checkbox"/>
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO ₃ pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO ₃ pH < 2 <input type="checkbox"/>	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter	<input type="checkbox"/>
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	<input type="checkbox"/>
Other:				<input type="checkbox"/>

Name of Sampler: RR Signature of Sampler: RR

Sample #	Location	Volume/Area	Date/Time Sampled
1 AP93-1L	R5 - Closet	White	3-20-19
2 AP93-2L	EX - North end wall	Gray	↓
3 AP93-3L	EX - Poles - SW end	Yellow	
4 AP93-4L	EX - South door	Dark Gray	

Client Sample #'s: - Total # of Samples: 4

Relinquished (Client): [Signature] Date: 3-20-19 Time: 6:10

Received (Lab): [Signature] Date: 3/21/19 Time: 10:15 am

Comments: Celeana 3/22/19 10:15 am

7956 9558 2385

4/0

3. Waste Manifest

a. Regulated Building Materials (RBMs) Waste Manifests



14 Lakeside Ln, Denver, CO 80212
(303)333-8521

AP-93

Reference # _____

Service Request-Waste Disposal Order

MANIFEST#: <u>136037</u>			
REP: JB -JB	PO: PO-901.013	Contact: Ruben Domingo	Date: 9-9-19
EPAID#		Email: rdomingo@jksindustries.net	
<u>Bill To:</u> Name: JKS Industries LLC Address: 747 Sheridan Blvd Unit 9A Lakewood, Colorado 80214 Phone: 303-238-0207 Office		<u>Ship From:</u> Name: Phone:	

(items above line are included in 10% fuel surcharge, below will not)

80

Container #	Size	Description Waste	Profile	Unit Price	TOTAL
320	L/F	Four Foot Bulbs (\$0.25/lb)	ERT	\$0.25	\$80.00
1	55	Non PCB Ballast (\$1.00/lb)	ERT		\$0.00
1	10	Mercury Thermostats	ERT	\$475.00	\$475.00
3	Unit	Exit Sign	Isolite	\$285.00	\$570.00
1	Unit	Holgen Light	ERT	\$5.00	\$5.00
					\$0.00
					\$0.00
		John's guys will package while you are there.			\$0.00
					\$0.00
		Need serial number and activity level of exit signs			\$0.00
					\$0.00
					\$0.00
					\$0.00
					\$0.00
					\$0.00
2	Piber	Four (4) foot bulbs		\$45.00	\$90.00
3	5	Pails		\$25.00	\$75.00
4	hrs	labor		\$50.00	\$200.00
					\$0.00
					\$0.00
					\$0.00
					\$0.00

Additional Charges	QTY	Cost	Total
Transportation per Drum	0	55	\$0.00
Other		125	\$0.00
Fuel Charges	10%		\$0.00
Total Cost for Load			\$2,115.00

Special Instructions: _____

Customer Signature: _____ Date: _____

Print: _____

The Person signing for the Customer warrants and represents to have authority to do so, and acknowledges that the transportation of this shipment, receipt of goods, and the said terms and conditions are hereby agreed to: (1) Disposal acceptance and pricing is subject to final analysis by the TSDF & SURCHARGES may be assessed if not within profile specifications; (2) Payment to Source Environmental/AET Environmental, for the services/materials are due upon receipt of invoice; (3) Invoices 30 days past due are subject to and CUSTOMER agrees to pay (a) service charges accruing at the rate of 2% per month, (b) any collection costs and/or legal fees incurred by Source/AET in order to collect past due invoices; with or without suit, will be assumed by debtor; (4) The above terms and conditions constitute a valid contract.

WASTE BILL OF LADING & CERTIFICATE OF RECYCLING		PU Fees: \$25 ___ \$30 ___ \$40 ___ \$45 ___ \$55 ___ \$65 ___ \$75 ___ \$85 ___ \$95 ___ \$105 ___ \$115 ___ \$125 ___ \$135 ___ \$145 ___ \$155 ___ Labor Charges: \$ _____ Off Spec. Charge: \$ _____		BOL#: 13637																																																																																																																																																																																					
Universal Waste TSCA Waste Special Waste		4' Jumbo ___ 4' Box ___ 8' Jumbo ___ 8' Box ___ HID Box ___ Battery Box ___ 6.5 Gallon Pale ___ 14-G PD ___ 30-G PD ___ 55-G PD ___ CY Bx ___ 95-G PD ___ 55-G SD ___ 85-G SD ___ GL Box ___		Bill To: Name: AET Environmental Address: 14 Lakeside Ln. City, State, Zip: Denver, CO 80212 Contact: Frank Virginia Phone: 303-333-8521 Fax: _____ PO# _____ Job# _____		Shipment Date: _____ Emergency Contact (877) 331-2149 Extension 4																																																																																																																																																																																			
Generator Of Waste: Name: _____ Address: _____ City, State, Zip: _____ Contact: _____ Phone: _____ Fax: _____ PO# _____ Job# _____		WASTE BROKERAGE FACILITY: R8E, LLC 4810 Newport Street Commerce City Colorado 80033-2244 (p) 303-424-4887 (f) 303-424-9193 Email: Mike@R8Enviro.com www.R8Enviro.com		EPA ID#: COR000231449 Destination Facility For Universal Waste Large Quantity Handler of Universal Waste Hazardous Waste Transporter/Transfer Facility Used Oil Transporter/Transfer Facility US DOT #: 050108 550 051Q HMP-20746 US DOT : 1781660 CO TSCA - EPA Approved PCB Handler																																																																																																																																																																																					
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Container</th> <th rowspan="2">Waste Common Name</th> <th rowspan="2">DOT Description</th> <th rowspan="2">Total Quantity</th> <th rowspan="2">Unit / Wt. Volume</th> </tr> <tr> <th>Count</th> <th>Type</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>CF</td> <td>4' & UNDER FLUORESCENT LAMP/S RECYCLING</td> <td>Non-DOT Regulated (per 49 CFR 173.164(e))</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>5' & OVER FLUORESCENT LAMP/S RECYCLING</td> <td>Non-DOT Regulated (per 49 CFR 173.164(e))</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>UTUBE FLUORESCENT LAMP/S RECYCLING</td> <td>Non-DOT Regulated (per 49 CFR 173.164(e))</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>CIRCULAR FLUORESCENT LAMP/S RECYCLING</td> <td>Non-DOT Regulated (per 49 CFR 173.164(e))</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>COMPACT FLUORESCENT LAMP/S RECYCLING</td> <td>Non-DOT Regulated (per 49 CFR 173.164(e))</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>HID MERCURY/HALIDE/SODIUM LAMP/S RECYCLING</td> <td>Non-DOT Regulated (per 49 CFR 173.164(e))</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>SHIELD/COATED/GROOVED LAMP/S RECYCLING</td> <td>Non-DOT Regulated (per 49 CFR 173.164(e))</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>INCANDESCENT LAMP/S RECYCLING</td> <td>Non-DOT Regulated (per 49 CFR 173.164(e))</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>UV/ARC/IGNITRON LAMP/S RECYCLING</td> <td>Non-DOT Regulated (per 49 CFR 173.164(e))</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>BROKEN LAMP/S RECYCLING</td> <td>Non-DOT Regulated (per 49 CFR 173.164(e))</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>CRUSHED FLUORESCENT LAMP/S RECYCLING (processed)</td> <td>Non-DOT Regulated (per 49 CFR 173.164(e))</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>PCB WASTE RECYCLE/INCINERATION/MICROENCAP</td> <td>RQ, UN3432, Polychlorinated biphenyls, Solid, 9, PGIII, ERG#171</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>CF</td> <td>NON-PCB BALLAST RECYCLE/MICROENCAPSULATION</td> <td>Non-RCRA / Non-DOT Regulated Waste</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>ESCRAP RECYCLING</td> <td>Non-DOT Regulated</td> <td></td> <td></td> </tr> <tr> <td>1</td> <td>CF</td> <td>MERCURY DEVICE RECYCLING</td> <td>UN3506, Mercury Contained in Manufactured Articles, 8 (6.1), PGIII, ERG#172</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>LEAD ACID BATTERY RECYCLING</td> <td>UN2794, Batteries, Wet Filled w/ Acid, 8, PGIII, ERG#154</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>ALKALINE BATTERY RECYCLING</td> <td>Batteries, Dry, sealed, n.o.s. Specail Provision 130</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>NICKEL (Ni-Cad) BATTERY RECYCLING</td> <td>Batteries, Dry, sealed, n.o.s. 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Unpaid invoices will be assigned to a Collection Agency and are subject to Collection Agency Fee's, Attorney Fee's, Court Costs and Interest.	
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Signature: _____ Title: _____ Print Name: _____ Date: _____		Transporter 1 Name: AET Environmental Phone Number: 303-333-8521 Signature: _____ Date: 09-13-19		Transporter 2 Name: _____ Phone Number: _____ Signature: _____ Date: _____																																																																																																																																																																																					
Receiving, subject to the classification and regulations in effect on the date of issue of the Bill of Lading, the property described above is in apparent good order. Please retain a copy of this document as the "Certification of Recycling" for the items and quantities listed above.																																																																																																																																																																																									
Signature		Date																																																																																																																																																																																							

4. Weight Tickets

a. Truck Tickets

CHACONS
construction & transport



No. 9702

2920 W. 73rd Ave.
Westminster, CO 80030
Fax 303-331-8259
PH 720-357-1448

BILL TO: JKS Industries

DISPATCHED BY:

DATE: 09/04/2019

TRUCK # CH127

TANDEM TRAILER

MATERIAL DEMO

JOB DESCRIPTION:
Empty
AP93 Central 70

	LOADS	UNLOADS
JOB# AP93	8:20 am	9:54 am
LOAD AT 3538 E. 46th Ave Denver	Recycle 11:24 am DEMO 2:39 pm	#5150139 12:57 pm #3442260
UNLOAD AT RM Recycling D.A.D.S	DEMO	#3442461
RATE \$	<div style="border: 1px solid black; border-radius: 50%; padding: 10px; display: inline-block;"> David Authorized </div>	6
HOURLY <input type="checkbox"/> TONMILE <input type="checkbox"/>		
START TIME 8:00 am		
STOP TIME 4:30 pm		
TOTAL HOURS		
8.5 ✓	CHECKED SEP 10 2019 ✓	
	OWNER OF TRUCK:	

DRIVER'S NAME: Ivan Munoz

AUTHORIZED SIGNATURE:

Net due 30 days from date of this statement. Past due accounts bear interest at 1.5% per month. In the event collection of this account becomes necessary, client agrees to pay all costs and reasonable attorney fees.

CHACON'S

construction & transport



No. 9706

2920 W. 73rd Ave.
Westminster, CO 80030
Fax 303-331-8259
PH 720-357-1448

BILL TO: *JKS Industries*

DISPATCHED BY:

DATE: *09/06/2019*

JOB DESCRIPTION:

TRUCK # *4127*

Empty @ 48th

TANDEM TRAILER

MATERIAL *demo*

	LOADS	UNLOADS
--	-------	---------

JOB# *AP-93*

LOAD AT
48th and Colorado

1 load to D.A.R.S

UNLOAD AT

D.A.R.S

2

RATE \$

HOURLY TONMILE

START TIME *5:15 pm*

CHECKED SEP 10 2019

STOP TIME *7:15 pm*

TOTAL HOURS

q *✓*

OWNER OF TRUCK:

DRIVER'S NAME

Amador

AUTHORIZED SIGNATURE

Omair Mendoza

Net due 30 days from date of this statement. Past due accounts bear interest at 1.5% per month. In the event collection of this account becomes necessary, client agrees to pay all costs and reasonable attorney fees.



BILL TO: *JKS Industries*

DISPATCHED BY:

DATE: *9/6/19*

JOB DESCRIPTION:

TRUCK # *Ch 400*

TANDEM TRAILER

MATERIAL *Concrete*

	LOADS	UNLOADS
JOB# <i>AP-93</i>	<i>573368</i>	
LOAD AT <i>3530 E 46th Ave Dow & Co.</i>	<i>573418</i>	
UNLOAD AT <i>Henderson Pit</i>		<i>0</i>
RATE \$		<i>CHECKED SEP 09 2019</i>
HOURLY <input type="checkbox"/> TONMILE <input type="checkbox"/>		
START TIME <i>1:00 p.m.</i>		
STOP TIME <i>8:00 p.m.</i>		
TOTAL HOURS		
<i>7 hrs</i>		

OWNER OF TRUCK:

DRIVER'S NAME

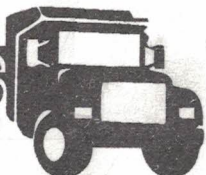
AUTHORIZED SIGNATURE

Jose Carlos

JKS

CHACON'S

construction & transport



No. 9755

2920 W. 73rd Ave.
Westminster, CO 80030
Fax 303-331-8259
PH 720-357-1448

BILL TO: JKS Industries

DISPATCHED BY: Chacon

DATE: 9.6.19

JOB DESCRIPTION:

TRUCK # A10

TANDEM TRAILER

MATERIAL

	LOADS	UNLOADS
--	-------	---------

JOB# AP-93

10:15

11:00

LOAD AT
3538 E 46th
AVE

11:55

12:55

1:25

2:15

2:50

4:20

UNLOAD AT
Henderson
Pit

0

RATE \$

HOURLY TONMILE

START TIME 8:00

STOP TIME 6:00

TOTAL HOURS

10hr ✓

OWNER OF TRUCK: CCT

DRIVER'S NAME

AUTHORIZED SIGNATURE

Miguel C.

Net due 30 days from date of this statement. Past due accounts bear interest at 1.5% per month. In the event collection of this account becomes necessary, client agrees to pay all costs and reasonable attorney fees.



BILL TO: JKS Industries LLC

DISPATCHED BY: Chycaps

DATE: 9/16/19

TRUCK #: CH525

TANDEM **TRAILER**

MATERIAL:

JOB DESCRIPTION:
Pick up Sweeps at 46th
drop at 120th Ave.

	LOADS	UNLOADS
JOB# AP-93	Tre Met	
LOAD AT 3538 E 46th Denver	57333	
	573380	
	57423	
UNLOAD AT 10925 E. 120th Henderson, CO.		0
RATE \$		
HOURLY <input checked="" type="checkbox"/> TONMILE <input type="checkbox"/>		
START TIME 1200	8:00hr	
STOP TIME 800		
TOTAL HOURS 8 hr.	Dumped & Did not return to site	
	OWNER OF TRUCK: C.C.T.	

DRIVER'S NAME Salvador Suarez	AUTHORIZED SIGNATURE
---	-----------------------------

Net due 30 days from date of this statement. Past due accounts bear interest at 1.5% per month. In the event collection of this account becomes necessary, client agrees to pay all costs and reasonable attorney fees.



BILL TO: **IKS**

DISPATCHED BY:

DATE: **9/6/2019** JOB DESCRIPTION:

TRUCK # **CH777**

TANDEM TRAILER

MATERIAL

	LOADS	UNLOADS
--	-------	---------

JOB# AP-93		
-------------------	--	--

LOAD AT		
---------	--	--

3538 E		
---------------	--	--

46th Ave		
-----------------	--	--

--	--	--

--	--	--

UNLOAD AT		
-----------	--	--

Henderson		
------------------	--	--

Pit		
------------	--	--

end IKS yard		
---------------------	--	--

RATE \$		
---------	--	--

HOURLY <input type="checkbox"/> TONMILE <input type="checkbox"/>		
--	--	--

START TIME 1:00		
------------------------	--	--

STOP TIME 8:00		CHECKED SEP 09 2019 J
-----------------------	--	------------------------------

TOTAL HOURS		did
-------------	--	------------

7 hrs		dumped but not returned to jobsite
--------------	--	---

OWNER OF TRUCK:		
-----------------	--	--

DRIVER'S NAME	AUTHORIZED SIGNATURE
---------------	----------------------

Jesse Hernandez	IKS
------------------------	------------

Net due 30 days from date of this statement. Past due accounts bear interest at 1.5% per month. In the event collection of this account becomes necessary, client agrees to pay all costs and reasonable attorney fees.



BILL TO: JKS Industries

DISPATCHED BY: DAVID

DATE: 09/07/2019 **JOB DESCRIPTION:**

TRUCK #: 47721 **Empty @ Central 70**

TANDEM **TRAILER**

MATERIAL: Concrete/Demo

	LOADS	UNLOADS
JOB# AP-93	7:00 am	7:56 am
LOAD AT	Concrete Henderson	#573469
3538 E 46th	8:49 am	9:49
Ave Denver Co	Concrete Henderson	#573497
	10:49 am	11:42 am
UNLOAD AT	DEMO D.A.D.S	#3414532
120th Henderson	12:30 pm	
PH/ D.A.D.S	DEMO D.A.D.S	#
RATE \$		
HOURLY <input type="checkbox"/> TONMILE <input type="checkbox"/>		6
START TIME 7:00 am		
STOP TIME 3:00		
TOTAL HOURS		
8 <i>JKS</i>		
OWNER OF TRUCK:		

CHECKED SEP 10 2019 *JKS*

DRIVER'S NAME <i>Luis Munez</i>	AUTHORIZED SIGNATURE <i>Sam Solorzano</i>
---	---

Net due 30 days from date of this statement. Past due accounts bear interest at 1.5% per month. In the event collection of this account becomes necessary, client agrees to pay all costs and reasonable attorney fees.

b. Waste Weight Tickets

Denver Arapahoe Disposal (DADS)
 3500 S GUN CLUB RD,
 AURORA, CO, 80018-3033
 Ph: (720) 876-2650

Reprint Ticket # 3442161

Carrier JKS INDUSTRIES JKS INDUSTRIES

Vehicle# 1 **Volume**

Container

Driver

Check#

Billing# 0014925

Gen EPA ID

Grid

Customer Name JKSINDUSTRIESLLC

Ticket Date 09/04/2019

Payment Type Credit Account

Manual Ticket#

Hauling Ticket#

Route

StateWasteCode

Manifest

Destination

PO# 19036.0069

Profile ()

Generator

Time	Scale	Operator	Inbound	Gross	0 lb
In 09/04/19 11:24:50 AM	Scale 2	MC		Tare	0 lb
Out 09/04/19 11:24:50 AM		MC		Net	0 lb
		* Manual Weight		Tons	0

Comments DIA

Products	LD%	Qty	UOM	Rate	Fee	Amount	Origin
CDY-CONST DEBRIS - YARD	100	18	Yards	11.43	6.30	\$205.74	
RCR-P-Regulatory Cost Recovery	100		%	3.60		\$7.41	
FUEL-Fuel Surcharge - Landfill	100		%	6.09		\$12.53	
EVF-P-Standard Environmental	100		%	16.00		\$32.92	
WWM-P-Waste Water	100		%	6.50		\$13.37	

Total Fees \$6.30

Driver's Signature _____

Total Ticket \$278.27

Denver Arapahoe Disposal (DADS)
3500 S GUN CLUB RD,
AURORA, CO, 80018-3033
Ph: (720) 876-2650

Reprint Ticket # 3442260

Carrier JKS INDUSTRIES JKS INDUSTRIES

Vehicle# 1 **Volume**

Container

Driver

Check#

Billing# 0014925

Gen EPA ID

Grid

Customer Name JKSINDUSTRIESLLC

Ticket Date 09/04/2019

Payment Type Credit Account

Manual Ticket#

Hauling Ticket#

Route

StateWasteCode

Manifest

Destination

PO# c70apc70

Profile ()

Generator

	Time	Scale	Operator	Inbound	Gross 0 lb
In	09/04/19 12:29:43 PM	Scale 2	aramirez		Tare 0 lb
Out	09/04/19 12:29:43 PM		aramirez		Net 0 lb
			* Manual Weight		Tons 0

Comments

Products	LD%	Qty	UOM	Rate	Fee	Amount	Origin
CDY-CONST DEBRIS - YARD	100	17	Yards	11.43	5.95	\$194.31	

Total Fees \$5.95

Driver's Signature _____

Total Ticket \$200.26

Denver Arapahoe Disposal (DADS)
 3500 S GUN CLUB RD,
 AURORA, CO, 80018-3033
 Ph: (720) 876-2650

Reprint Ticket # 3442850

Customer Name JKSINDUSTRIESLLC
Ticket Date 09/04/2019
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
StateWasteCode
Manifest
Destination
PO# C70 ARC70
Profile ()
Generator

Carrier JKS INDUSTRIES JKS INDUSTRIES
Vehicle# 1 **Volume**
Container
Driver
Check#
Billing# 0014925
Gen EPA ID
Grid

	Time	Scale	Operator	Inbound	Gross 0 lb
In	09/04/19 02:46:03 PM	Scale 2	SLA		Tare 0 lb
Out	09/04/19 02:46:03 PM		SLA		Net 0 lb
			* Manual Weight		Tons 0

Comments REPLACEMENT TICKET FOR TICKET # 3442461

Products	LD%	Qty	UOM	Rate	Fee	Amount	Origin
CDY-CONST DEBRIS - YARD	100	17	Yards	11.43	5.95	\$194.31	

Driver's Signature _____ Total Fees \$5.95
 Total Ticket \$200.26

Denver Arapahoe Disposal (DADS)
 3500 S GUN CLUB RD,
 AURORA, CO, 80018-3033
 Ph: (720) 876-2650

Reprint Ticket # 3444229

Customer Name JKSINDUSTRIESLLC
Ticket Date 09/06/2019
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
StateWasteCode
Manifest
Destination
PO# AP-93
Profile ()
Generator

Carrier JKS INDUSTRIES JKS INDUSTRIES
Vehicle# 1 **Volume**
Container
Driver
Check#
Billing# 0014925
Gen EPA ID
Grid

	Time	Scale	Operator	Inbound	Gross 0 lb
In	09/06/19 03:54:12 PM	Scale 2	cmarti53		Tare 0 lb
Out	09/06/19 03:54:12 PM		cmarti53		Net 0 lb
			* Manual Weight		Tons 0

Comments

Products	LD%	Qty	UOM	Rate	Fee	Amount	Origin
CDY-CONST DEBRIS - YARD	100	17	Yards	11.43	5.95	\$194.31	

Driver's Signature _____ Total Fees \$5.95
 Total Ticket \$200.26

Denver Arapahoe Disposal (DADS)
 3500 S GUN CLUB RD,
 AURORA, CO, 80018-3033
 Ph: (720) 876-2650

Reprint Ticket # 3444532

Customer Name JKSINDUSTRIESLLC
Ticket Date 09/07/2019
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
StateWasteCode
Manifest
Destination
PO# AP93
Profile ()
Generator

Carrier JKS INDUSTRIES JKS INDUSTRIES
Vehicle# 1 **Volume**
Container
Driver
Check#
Billing# 0014925
Gen EPA ID
Grid

	Time	Scale	Operator	Inbound	Gross 0 lb
In	09/07/19 11:18:44 AM	Scale 2	cmarti53		Tare 0 lb
Out	09/07/19 11:18:44 AM		cmarti53		Net 0 lb
			* Manual Weight		Tons 0

Comments

Products	LD%	Qty	UOM	Rate	Fee	Amount	Origin
CDY-CONST DEBRIS - YARD	100	17	Yards	11.43	5.95	\$194.31	

Driver's Signature _____ Total Fees \$5.95
 Total Ticket \$200.26

Denver Arapahoe Disposal (DADS)
 3500 S GUN CLUB RD,
 AURORA, CO, 80018-3033
 Ph: (720) 876-2650

Reprint Ticket # 3444597

Customer Name JKSINDUSTRIESLLC
Ticket Date 09/07/2019
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
StateWasteCode
Manifest
Destination
PO# ap93
Profile ()
Generator

Carrier JKS INDUSTRIES JKS INDUSTRIES
Vehicle# 1 **Volume**
Container
Driver
Check#
Billing# 0014925
Gen EPA ID
Grid

Time	Scale	Operator	Inbound	Gross 0 lb
In 09/07/19 12:48:54 PM	Scale 2	aremacle		Tare 0 lb
Out 09/07/19 12:48:54 PM		aremacle		Net 0 lb
		* Manual Weight		Tons 0

Comments

Products	LD%	Qty	UOM	Rate	Fee	Amount	Origin
CDY-CONST DEBRIS - YARD	100	17	Yards	11.43	5.95	\$194.31	

Driver's Signature _____ Total Fees \$5.95
 Total Ticket \$200.26

5. Daily Logs

JKS	TOOLBOX MEETING HAZARD ANALYSIS
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Project Name/Location: <i>Ap-93-3538 E. 40 Ave</i>	Date: <i>8-15-19</i>	Phase of Work:	Project Leader: <i>David Hernandez</i>
Safety Topic of The Day: <i>slip trips falls</i>		Evacuation Assembly Area: <i>Front of Bldg</i>	
Job Scope: <i>to Remove light Bulbs</i>		Tools/Equipment in use Today: <i>wire cutters gloves</i>	
Previous Shift Near Miss: <i>None</i>			

Safety Concerns from Crew

DAILY INSPECTIONS
(Ensure completion) * Attach written record

- | | | |
|---|---|---|
| <ul style="list-style-type: none"> * Abatement Containment & Safety Controls o Access Ways * Aerial Lifts o * Cranes Electrical Cords (GFCI) o * Excavations/Protective Systems | <ul style="list-style-type: none"> o Explosive Tools o Fall Protection Equipment o Hand Tools o * Heavy Equipment/Forklift o Housekeeping o Ladders | <ul style="list-style-type: none"> o * Lock Out Tagout o Power Tools o PPE/Clothing - All o Rigging o Scaffolding o Vehicles (*Document weekly) |
|---|---|---|

TODAYS SOURCE OF POTENTIAL HAZARDS
(Check all that apply and identify related controls below)

- | | | | |
|--|---|---|---|
| <ul style="list-style-type: none"> o Aerial Work Equipment X Asbestos Containing Material o Awkward or static position o Block & Tackle o Chemical Exposure – List Below (Flammable/Reactive) o Cold/Heat Stress o Combustible Material o Compressor o Confined Space (PRCS?) o Construction Materials (cement, resins, alcohol, lime, toluene, metalworking oil, paint, turpentine, dust, adhesive) o Contact with moving parts or equipment o Contact with utilities | <ul style="list-style-type: none"> o Containers o Conveyors o Corrosive Material o Demolition. o Electrical o Elevated loads o Excavation o Explosive material o Exposure To: <ul style="list-style-type: none"> o Excessive noise o Excessive vibration o Harmful gas, vapors o Harmful radiation Falling, Flying objects o Flammable material o Generator o Grounds equipment o Hand tools | <ul style="list-style-type: none"> o Heaters/Boilers o Heavy equipment o Heavy lifting, pushing reaching or bending o High pressure water/Air o Hot/Cold surfaces / environment o Housekeeping o Inadequate lighting o Inhalation of...(list below) o Ladders o Lifting equipment o Line of Fire o Machinery in motion o Manual Lifting o Movement of Equipment o Overhead hazards o Overhead Utilities o Pinch Points o Pipelines/Tank—above/below grade | <ul style="list-style-type: none"> o Poisonous plants/Insects o Pressurized Cylinders (Gas, water, air) o Pressurized Lines o Repetitive Motion-ergonomic o Rough terrain o Scaffold o Sharp Objects o Slip/Trip/Fall <6' o Slippery Surfaces o Structural integrity o Trenches o Underground Utilities o Uneven surfaces >19" o Vehicle Use o Weather o Welding/Cutting o Work at Height >6' |
|--|---|---|---|

CONTROLS
Discuss When Daily Tasks are Assigned
✓ Required control on all projects

JKS

TOOLBOX MEETING HAZARD ANALYSIS

Project Name/Location:	Date: 8-16-19	Phase of Work:	Project Leader: David Hernandez
Safety Topic of The Day: Slips trips Falls	Evacuation Assembly Area: Front of Bldg		
Job Scope to remove light fixtures and bulbs	Tools/Equipment in use Today: gloves wire cutters phillips screw driver		
Previous Shift Near Miss: None			

Safety Concerns from Crew

DAILY INSPECTIONS

(Ensure completion) * Attach written record

- | | | |
|---|---|---|
| <ul style="list-style-type: none"> * Abatement Containment & Safety Controls o Access Ways * Aerial Lifts o * Cranes Electrical Cords (GFCI) o * Excavations/Protective Systems | <ul style="list-style-type: none"> o Explosive Tools o Fall Protection Equipment o Hand Tools o * Heavy Equipment/Forklift o Housekeeping o Ladders | <ul style="list-style-type: none"> o * Lock Out Tagout o Power Tools o PPE/Clothing - All o Rigging o Scaffolding o Vehicles (*Document weekly) |
|---|---|---|

TODAYS SOURCE OF POTENTIAL HAZARDS

(Check all that apply and identify related controls below)

- | | | | |
|--|--|---|---|
| <ul style="list-style-type: none"> o Aerial Work Equipment X Asbestos Containing Material o Awkward or static position o Block & Tackle o Chemical Exposure – List Below (Flammable/Reactive) o Cold/Heat Stress o Combustible Material o Compressor o Confined Space (PRCS?) o Construction Materials (cement, resins, alcohol, lime, toluene, metalworking oil, paint, turpentine, dust, adhesive) o Contact with moving parts or equipment o Contact with utilities | <ul style="list-style-type: none"> o Containers o Conveyors o Corrosive Material o Demolition. o Electrical o Elevated loads o Excavation o Explosive material o Exposure To: <ul style="list-style-type: none"> o Excessive noise o Excessive vibration o Harmful gas, vapors o Harmful radiation. Falling, Flying objects o Flammable material o Generator o Grounds keeping equipment Hand tools | <ul style="list-style-type: none"> o Heaters/Boilers o Heavy equipment o Heavy lifting, pushing reaching or bending o High pressure water/Air o Hot/Cold surfaces / environment o Housekeeping o Inadequate lighting o Inhalation of...(list below) o Ladders o Lifting equipment o Line of Fire o Machinery in motion o Manual Lifting o Movement of Equipment o Overhead hazards o Overhead Utilities o Pinch Points o Pipelines/Tank—above/below grade | <ul style="list-style-type: none"> o Poisonous plants/Insects o Pressurized Cylinders (Gas, water, air) o Pressurized Lines o Repetitive Motion-ergonomic o Rough terrain o Scaffold o Sharp Objects o Slip/Trip/Fall <6' o Slippery Surfaces o Structural integrity o Trenches o Underground Utilities o Uneven surfaces >19" o Vehicle Use o Weather o Welding/Cutting o Work at Height >6' |
|--|--|---|---|

CONTROLS

Discuss When Daily Tasks are Assigned

✓ Required control on all projects

