Close Out Documents

AP-185 – 4542 Fillmore St.

Structural Demolition

Prepared for:

Kiewit Infrastructure Co.
Attn: Jenn Bradtmueller
160 Inverness Drive West. Suite 110
Englewood CO 80112

Contents:

1. Closeout Letter

December 26, 2018

Kiewit Infrastructure Co.
160 Inverness Drive West, Suite 110
Englewood, CO 80112

Re: SSCR AP-185 – 4542 Fillmore St.

Dear Kiewit Infrastructure Co.

This letter is confirm that all the work associated with the demolition of the structure located at 4542 Fillmore St. Denver, CO 80216, also referred as parcel AP-185, is complete.

The scope of work included the removal of Regulated Building Materials (RBMs), demolition of a 1,100 square foot structure, demolition of a 450 square foot detached garage, demolition of a 256 square foot shed, and the removal of the curb and driveway.

This document has been prepared to furnish you with key documents associated with this project for your records.

On behalf of the JKS Industries team, we would like to extend our appreciation to working with you on this project and look forward to working with you in the future.

Regards,

Jeffrey Knight,
President

2. CDPHE Demolition Permit

Colorado Department of Public Health and Environment
Air Pollution Control Division – Indoor Environment Program – Asbestos/IAQ Air Unit
4300 Cherry Creek Drive South, APCD-IE-B1
Denver, Colorado 80246-1530
Phone: 303-692-3100 – Fax: 303-782-0278
E-mail: asbestos@state.co.us

DEMOLITION APPROVAL NOTICE

This approval notice is granted subject to Colorado Air Quality Control Commission Regulation No. 8, Part B, adopted December 21, 2007, and effective January 30, 2008 and the Colorado Air Pollution Prevention and Control Act C.R.S. (25-7-101 and 25-7-501 et seq). This notice signifies that the structure was inspected for asbestos, luminous exit signs (containing radioactive material), and Ozone-Depleting Refrigerants and the demolition contractor has properly notified the Colorado Department of Public Health and Environment pursuant to Regulation No. 8, Part B.

As a contractor, you may be subject to other demolition licenses and permits, depending on the requirements of the county and municipality in which the work is being performed. The Colorado Department of Public Health and Environment, Air Pollution Control Division, strongly suggests that you check with county and municipal authorities in order to determine any other local building/permitting requirements that must be met.

Please note that certain asbestos-containing materials (ACM) may remain in the structure during demolition. Therefore, any demolition debris left behind after the completion of post-demolition site cleanup may constitute a "reason to know of asbestos-contaminated soil" at the site, subject to the requirements of Section 5.5 of the Solid Waste Regulations (6 CCR 1007-2, Part 1).

THE ORIGINAL APPROVAL NOTICE MUST BE POSTED ON SITE AT ALL TIMES.

Immediately notify the Asbestos/IAQ Unit of project modifications by fax (number above) or e-mail (address above) and the appropriate county health department by fax. Project modifications include changes in the scope of work or the scheduled work dates, etc.

This demolition approval notice is valid beginning 11/16/2018.
The actual scheduled work dates are from 11/16/2018 through 12/17/2018.

Approval issued on: 11/15/2018
Record number: 143396
Notice Number: 18DE7653D
For the location specified below:

AP- 185 Residential

4542 Fillmore St.
Denver
Denver County

Fee Paid: $60.00
Check number: 5567

Asbestos Building Inspector:
Logan Greenfield
Cerification No.: 20715

Inspection Date: 06/08/2018

This notice has been issued to:

JKS Industries, Inc.
747 Sheridan Blvd. Unit 9A
Lakewood, CO 80214

Issued by: SK

Colorado Department of Public Health and Environment

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

Demolition Contractor

Company Name: JKS Industries
Street: 747 Sheridan Blvd. Unit 9A
City: Lakewood | State: CO | Zip Code: 80214
Telephone #: (303) 238-0207 | Fax #: (303) 238-0452
Project Manager: Jeff Knight | Cell Phone #: (720) 402-4410
I certify that the Certified Asbestos Building Inspector has informed me about any remaining asbestos-containing materials in the facility to be demolished.
Signature: [signature] | Print Name: Jeffrey Knight
Landfill Receiving Building Debris: Denver Arapahoe Disposal Site

Demolition Site

Building Name: AP-185 Residential
Square footage of footprint of facility or portion of facility to be demolished: 1100
Street: AP-185 4542 Fillmore Street
City: Denver | County: Denver | Zip Code: 80216
Proposed Start Date: 11/16/18 | Proposed Completion Date: 12/7/18
Method/Means of Demolition:
☒ Wrecking ☐ Burning† ☐ Implosion ☐ Moving ☐ Other, specify:

†Burning requires additional authorization – Please call (303) 692-3100 and ask to speak to the Open Burning Permit Coordinator

Asbestos Removal Contractor

General Abatement Contractor (GAC): NA
CDPHE Asbestos Permit #:
Date Removal Completed | Telephone #
Type(s) of Asbestos-Containing Material Removed:

Building Owner

Owner's Name: CDOT
Street: 2000 S Holly Street
City: Denver | State: CO | Zip Code: 80222
Contact's Name: Anthony Davito | Telephone #: (303) 512-5900

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)** [signature] | Printed Name: Logan Greenfield
Date of Final Inspection: 6-8-18 | CO Cert #: 20715 | Expiration Date: Oct. 18, 2019 | Telephone #: (719) 545-0375 | 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 | Date: 11/1/18
Signature: [signature] | Print Name: JEFF KNIGHT

THIS BOX IS FOR CDPHE USE ONLY:

Postmark or Hand Delivery Date: 10/23/18 | Approved By: SEN | Code: ☒ initial-310 ☐ transfer-380
Form of Payment & #: check #5567 - $60 | Permit #: 18DE1053D | Record #: 143396 | 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.

APPROVED
DATE 11/6/18 CDPHE: SEN

RECEIVED
OCT 23 2018
APCD

Form: DNA08 Rev. 01/30/08

Colorado Department of Public Health and Environment
Air Pollution Control Division – Indoor Environment Program – Asbestos/IAQ Air Unit
4300 Cherry Creek Drive South, APCD-IE-B1
Denver, Colorado 80246-1530
Phone: 303-692-3100 – Fax: 303-782-0278
E-mail: asbestos@state.co.us

DEMOLITION APPROVAL NOTICE

This approval notice is granted subject to Colorado Air Quality Control Commission Regulation No. 8, Part B, adopted December 21, 2007, and effective January 30, 2008 and the Colorado Air Pollution Prevention and Control Act C.R.S. (25-7-101 and 25-7-501 et seq). This notice signifies that the structure was inspected for asbestos, luminous exit signs (containing radioactive material), and Ozone-Depleting Refrigerants and the demolition contractor has properly notified the Colorado Department of Public Health and Environment pursuant to Regulation No. 8, Part B.

As a contractor, you may be subject to other demolition licenses and permits, depending on the requirements of the county and municipality in which the work is being performed. The Colorado Department of Public Health and Environment, Air Pollution Control Division, strongly suggests that you check with county and municipal authorities in order to determine any other local building/permitting requirements that must be met.

Please note that certain asbestos-containing materials (ACM) may remain in the structure during demolition. Therefore, any demolition debris left behind after the completion of post-demolition site cleanup may constitute a "reason to know of asbestos-contaminated soil" at the site, subject to the requirements of Section 5.5 of the Solid Waste Regulations (6 CCR 1007-2, Part 1).

THE ORIGINAL APPROVAL NOTICE MUST BE POSTED ON SITE AT ALL TIMES.

Immediately notify the Asbestos/IAQ Unit of project modifications by fax (number above) or e-mail (address above) and the appropriate county health department by fax. Project modifications include changes in the scope of work or the scheduled work dates, etc.

This demolition approval notice is valid beginning 11/16/2018.
The actual scheduled work dates are from 11/16/2018 through 11/23/2018.

Approval issued on: 11/15/2018
Record number: 143400
Notice Number: 18DE7657D
For the location specified below:

AP-185 Garage

4542 Fillmore St.
Denver
Denver County

Fee Paid: $55.00
Check number: 5645

Asbestos Building Inspector:
Richard L. Ralston
Cerification No.: 4261

Inspection Date: 11/02/2018

This notice has been issued to:

JKS Industries, Inc.
747 Sheridan Blvd. Unit 9A
Lakewood, CO 80214

Issued by: SK

Colorado Department of Public Health and Environment

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 = $ 55.00
(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

Demolition Contractor

Company Name: JKS Industries
Street: 747 Sheridan Blvd. #9A
City: Lakewood | State: CO | Zip Code: 80214
Telephone #: (303) 238-0207 | Fax #: (303) 238-0452
Project Manager: Jeffrey Knight | Cell Phone #: (720) 402-4410

I certify that the Certified Asbestos Building Inspector has informed me about any remaining asbestos-containing materials in the facility to be demolished.

Signature: [signature] | Print Name: Jeffrey Knight

Landfill Receiving Building Debris: Denver Arapahoe Disposal Site

Demolition Site

Building Name: AP-185 Garage
Square footage of footprint of facility or portion of facility to be demolished: 450
Street: 4542 Fillmore St.
City: Denver | County: Denver | Zip Code: 80216
Proposed Start Date: 11/16/18 | Proposed Completion Date: 11/23/18

Method/Means of Demolition:

☒ Wrecking ☐ Burning† ☐ Implosion ☐ Moving ☐ Other, specify:

†Burning requires additional authorization – Please call (303) 692-3100 and ask to speak to the Open Burning Permit Coordinator

Asbestos Removal Contractor

General Abatement Contractor (GAC): N/A
CDPHE Asbestos Permit # | Total Quantity of Asbestos Removed
Date Removal Completed | Telephone #
Type(s) of Asbestos-Containing Material Removed:

Building Owner

Owner's Name: CDOT
Street: 2000 S Holly St.
City: Denver | State: CO | Zip Code: 80222
Contact's Name: Anthony DaVito | Telephone #: (303) 512-5900

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)** [signature] | Printed Name: Richard Ralston
Date of Final Inspection: 11/2/2018 | CO Cert #: 4261 | Expiration Date: MAY 12- 2019 | Telephone #: (719) 545-0753 | Cell Phone #: ( )

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 | Date: 11/1/18
Signature: [signature] | Print Name: JEFFREY KNIGHT

THIS BOX IS FOR CDPHE USE ONLY:

Postmark or Hand Delivery Date: 11/06/18 | Approved By: SEN | Code: ☐ initial-310 ☐ transfer-380
Form of Payment & #: CK 5645 $55 | Permit #: 18DA7160 | Record #4340 | 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.

APPROVED
DATE 11/6/18 CDPHE: SEN

Form: DNA08 Rev. 01/30/08

Colorado Department of Public Health and Environment
Air Pollution Control Division – Indoor Environment Program – Asbestos/IAQ Air Unit
4300 Cherry Creek Drive South, APCD-IE-B1
Denver, Colorado 80246-1530
Phone: 303-692-3100 – Fax: 303-782-0278
E-mail: asbestos@state.co.us

DEMOLITION APPROVAL NOTICE

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As a contractor, you may be subject to other demolition licenses and permits, depending on the requirements of the county and municipality in which the work is being performed. The Colorado Department of Public Health and Environment, Air Pollution Control Division, strongly suggests that you check with county and municipal authorities in order to determine any other local building/permitting requirements that must be met.

Please note that certain asbestos-containing materials (ACM) may remain in the structure during demolition. Therefore, any demolition debris left behind after the completion of post-demolition site cleanup may constitute a "reason to know of asbestos-contaminated soil" at the site, subject to the requirements of Section 5.5 of the Solid Waste Regulations (6 CCR 1007-2, Part 1).

THE ORIGINAL APPROVAL NOTICE MUST BE POSTED ON SITE AT ALL TIMES.

Immediately notify the Asbestos/IAQ Unit of project modifications by fax (number above) or e-mail (address above) and the appropriate county health department by fax. Project modifications include changes in the scope of work or the scheduled work dates, etc.

This demolition approval notice is valid beginning 11/16/2018.
The actual scheduled work dates are from 11/16/2018 through 11/23/2018.

Approval issued on: 11/15/2018
Record number: 143399
Notice Number: 18DE7656D

Fee Paid: $55.00
Check number: 5645

For the location specified below:

AP-185 Shed

4542 Fillmore St.
Denver
Denver County

Asbestos Building Inspector:
Richard L. Ralston
Cerification No.: 4261

Inspection Date: 11/02/2018

This notice has been issued to:

JKS Industries, Inc.
747 Sheridan Blvd. Unit 9A
Lakewood, CO 80214

Issued by: SK

Colorado Department of Public Health and Environment

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 = $ 55.00

(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

Demolition Contractor

Company Name: JKS Industries
Street: 747 Sheridan Blvd. #9A
City: Lakewood | State: CO | Zip Code: 80214
Telephone #: (303) 238-0207 | Fax #: (303) 238-0452
Project Manager: Jeffrey Knight | Cell Phone #: (720) 402-4410

I certify that the Certified Asbestos Building Inspector has informed me about any remaining asbestos-containing materials in the facility to be demolished.

Signature: [signature] | Print Name: Jeffrey Knight

Landfill Receiving Building Debris: Denver Arapahoe Disposal Site

Demolition Site

Building Name: AP-185 Shed
Square footage of footprint of facility or portion of facility to be demolished: 256
Street: 4542 Fillmore St.
City: Denver | County: Denver | Zip Code: 80216
Proposed Start Date: 11/16/18 | Proposed Completion Date: 11/23/18

Method/Means of Demolition:

☒ Wrecking ☐ Burning† ☐ Implosion ☐ Moving ☐ Other, specify:

†Burning requires additional authorization – Please call (303) 692-3100 and ask to speak to the Open Burning Permit Coordinator

Asbestos Removal Contractor

General Abatement Contractor (GAC): N/A
CDPHE Asbestos Permit # | Total Quantity of Asbestos Removed
Date Removal Completed | Telephone #
Type(s) of Asbestos-Containing Material Removed:

Building Owner

Owner's Name: CDOT
Street: 2000 S Holly St.
City: Denver | State: CO | Zip Code: 80222
Contact's Name: Anthony DaVito | Telephone #: (303) 512-5900

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)** Richard Ralston | Printed Name: Richard Ralston

Date of Final Inspection: 11/6/2018 | CO Cert #: 4261 | Expiration Date: MAY 12, 2019 | Telephone #: ( ) | Cell Phone #: ( )

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 | Date: 11/1/18

Signature: [signature] | Print Name: JEFFREY KNIGHT

THIS BOX IS FOR CDPHE USE ONLY:

Postmark or Hand Delivery Date: 11/06/18 | Approved By: SEH | Code: ☑ initial-310 ☐ transfer-380
Form of Payment & #: CK 5645 $55 | Permit #: [illegible] | Record #: 143398 | 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.

APPROVED
DATE 11/6/18 CDPHE SEH

Form: DNA08

Rev. 01/30/08

3. Project Design

3a. SSAR

July 26, 2018

Structure Survey Assessment Report AP-185

4542 Fillmore Street

Denver, CO 80216

Contents

LIST OF REPORT ACRONYMS/ABBREVIATIONS

ACMs	Asbestos Containing Materials
AHERA	Asbestos Hazard Emergency 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
mg/L	Milligrams per Liter
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
RACM	Regulated Asbestos Containing Material
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

Tables

Figures

Appendices

APEC Project # 18-3066-023

Prepared for

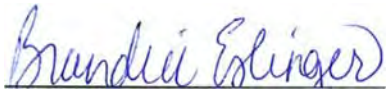
Kiewit Meridiam Partners

Prepared by

Logan Greenfield, CABI & AMS #20715

VP of Field Services

Reviewed by



Brandice Eslinger, EP, CABI & PD # 5494

President

1 Introduction

All Phase Environmental Consultants Inc. (APEC) was contracted to complete an environmental building survey for suspect Asbestos Containing Material (ACM), Lead Based Paint (LBP), and Regulated Building Material (RBM) at 4542 Fillmore Street, Denver, CO 80216. This survey idrentified 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:	4542 Fillmore Street, Denver, CO 80216
Building Type	Residential House
Building Size	Building is approximately 933 square feet
Construction Date:	1894 – Based on the City and County of Denver Assessor's Records
Building Uses:	Residential
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 the 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 Code of Federal 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

On June 8, 2018, APEC certified personnel Logan Greenfield, conducted an asbestos survey for demolition at 4542 Fillmore Street, Denver, CO 80216. The asbestos survey (inspection/sampling) was completed in accordance with the SSAP and follows guidelines established under the USEPA's Asbestos Hazardous Emergency Response Act (AHERA) program as required by USEPA regulation 40 Code of Federal Regulations (CFR) Part 61, National Emissions Standards for Hazardous Air Pollutants (NESHAP). Bulk sampling of suspected ACMs was performed in strict accordance with AHERA sampling procedures detailed in 40 CFR 763.86. These include but are not limited to labeling each sample, recording each sample on a chain of custody, taking a photo of the sample and recording the 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 Occupational Safety and Health Administration (OSHA), the Environmental Protection Agency (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. The laboratory is a member of the National Voluntary Laboratory Accreditation Program (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 Polarized Light Microscopy (PLM) and dispersion staining as established in 40 CFR Part 763.

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 June 8, 2018, APEC certified personnel Rick Ralston conducted the LBP survey. The survey was conducted to evaluate the absence and/or presence of LBP or Lead Containing Paint (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 was the use of a heat gun and/or scraping a portion of the paint 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 Flame Atomic Absorption (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/cm^2) as measured with an X-ray Fluorescence (XRF) or 5,000 parts per million (ppm) when measured by weight, or 0.5 percent (%) by weight.

A total of 8 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. Representative photographs of LBP and/or LCP were taken and are 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.

Based on the analytical results for the 8 samples, a Toxicity Characteristic Leachate Procedure (TCLP) sample was analyzed by collecting a representative sample (approximately 105 grams) of combined suspect building materials. The sample results are located in Appendix D.

2.3 SURVEY OF SUSPECTED RBMS

On June 8, 2018, 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 Universal Waste Rule (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 polychlorinated biphenyls (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 and until done so should be handled with care.

3 Findings

3.1 ASBESTOS SURVEY

A total of 57 bulk samples, including 2 duplicate samples, were collected from 17 suspect homogenous materials throughout the structure. The results of the PLM analysis are presented in Table 2. **No samples analyzed positive for asbestos.**

Point Counts

Point count analysis occurs for samples with <1% of asbestos. Point count analysis was not performed because the initial PLM analysis content was nondetect for asbestos. The laboratory analytical report is included as Appendix C.

Duplicate Samples

For quality assurance purposes, duplicate samples are taken approximately every 20th sample, per the EPA "pink book" that is used by Colorado Regulation 8 for sampling protocol. Duplicate samples are listed as a duplicate (Q) in the sample location column of Table 2 . Two sample was collected because a total of 55 samples were obtained, and are identified as:

- 4542F-R9-TD6Q
- 4542F-R8-L12Q

3.2 LEAD-BASED PAINT SURVEY

A total of 8 homogeneous paint color variations were analyzed for the presence of LBPs and LCPs (Table 4; 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).

Two lead samples (4542F-R9-2L and 4542F-2Q) were found to be greater than 0.06 % by weight and less than 0.5 % by weight and are considered LCP. Three samples (4542F-R3-5L, 4542F-R5-6L, and 4542F-R5-7L) were found to be greater than 0.5 % by weight and are considered LBP (Table 4). 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

Since two samples analyzed as an LCP and three samples as an LBP, TCLP analysis of lead was performed. 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 analysis was performed for landfill compliance and the Toxicity Characteristic (TC) maximum concentration is 5 milligrams per liter (mg/L). The results of the TCLP analysis is 1.1 mg/L, which is below the regulated limit and therefore not considered hazardous. The analytical report is included in Appendix D.

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 4, and selected locations of the RBMs are depicted in Figure 4.

4 Conclusions and Recommendations

4.1 ASBESTOS

No ACM was identified throughout the structures; however, if additional suspect materials, not sampled during this investigation, are identified during demolition, they should either be assumed to be ACM or should be sampled prior to disturbance.

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.

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 personal protective equipment (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 LCP threshold in 2 of the 8 samples and above the LBP threshold in 3 of the 8 samples. The remaining 3 samples are considered non-lead containing (NLC). Although LCP was identified in the samples analyzed, the TC limit of 5 mg/L was not exceeded in the TCLP lead analysis. No lead abatement is required prior to demolition. TCLP results confirmed that the waste stream is not hazardous with respect to lead content.

While the TCLP results indicate that the waste stream is not characteristically hazardous with respect to lead content, LCP and LBP are still present in the building materials. Therefore, the contractor responsible for demolition of this structure is notified with receipt of this report of the presence or potential presence of LCP and/or LBP in the building materials that comprise the building. The contractor should also notify their employees of the presence of LCP or LBP prior to any disturbance and make the US Department of Labor OSHA publication number 3142-12R 2004 available to their workers. ("Lead in Construction", http://www.osha.gov/Publications/osha3142.pdf). The standards address topics such as PELs for workers, exposure assessment, protection of employees during assessment of exposure, employee notification, PPE, medical surveillance, along with other topics related to working with LCP and LBP.

4.3 REGULATED BUILDING MATERIALS

Materials 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 regard to RBMs, if listed in Table 4, it is likely that the ballasts in the fluorescent light fixtures do contain PCBs. Where a manufactures' 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 manufacture'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 held responsible for the mishandling of the information contained herein.

APEC utilized destructive inspection methods in performing this survey, however accessibility may have been a limiting condition. If additional impacted suspect materials are discovered during 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, lead or other regulated materials; or assume the material(s) to be containing, 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.

Tables

Table 2 Non-Asbestos Containing and OSHA Regulated Samples

Sample Name	Sample Location	Lab Results/ Asbestos Type	Detection Method(s)	Condition	Material Description	Material Location	NESHAP Classification
4542-R4-TD1A	ROOM 4	ND	PLM	Good	TEXTURED DRYWALL	WALLS AND CEILINGS OF ROOM 1 & 4	NA
4542-R4-TD1B		ND	PLM	Good			NA
4542-R1-TD1C	ROOM 1	ND	PLM	Good			NA
4542-R2-DJ2A	ROOM 2	ND	PLM	Good	DRYWALL/JOINT COMPOUND	WALLS AND CEILING OF ROOM 2	NA
4542-R2-DJ-2B		ND	PLM	Good			NA
4542-R2-DJ-2C		ND	PLM	Good			NA
4542-R3-TD3A	ROOM 3	ND	PLM	Good	TEXTURED DRYWALL	WALLS AND CEILINGS OF ROOM 3	NA
4542-R3-TD3B		ND	PLM	Good			NA
4542-R3-TD3C		ND	PLM	Good			NA
4542-R6-TD4A	ROOM 6	ND	PLM	Good	TEXTURED DRYWALL	WALLS AND CEILINGS OF ROOM 6	NA
4542-R6-TD4B		ND	PLM	Good			NA
4542-R6-TD4C		ND	PLM	Good			NA
4542-R7-PL5A	ROOM 7	ND	PLM	Good	TEXTURED PLASTER	WALLS AND CEILIND OF ROOM 5,7&8	NA
4542-R8-PL5B	ROOM 8	ND	PLM	Good			NA
4542-R8-PL5C		ND	PLM	Good			NA
4542-R5-PL5D	ROOM 5	ND	PLM	Good			NA
4542-R5-PL5E		ND	PLM	Good			NA
4542-R9-TD6A	ROOM 9	ND	PLM	Good	TEXTURED DRYWALL	WALLS AND CEILINGS OF ROOMS 9&10	NA
4542-R9-TD6B		ND	PLM	Good			NA

Sample Name	Sample Location	Lab Results/ Asbestos Type	Detection Method(s)	Condition	Material Description	Material Location	NESHAP Classification
4542-R9-TD6C	ROOM 9	ND	PLM	Good	TEXTURED DRYWALL	WALLS AND CEILINGS OF ROOMS 9&10	NA
4542-R9-TD6Q		ND	PLM	Good			NA
4542-R10-TD6D	ROOM 10	ND	PLM	Good			NA
4542-R10-TD6E		ND	PLM	Good			NA
4542-R9-L7A	ROOM 9	ND	PLM	Good	8" SQUARE PATTERN LINOLEUM	FLOORS OF ROOMS 5,9&7	NA
4542-R7-L7B	ROOM 7	ND	PLM	Good			NA
4542-R5-L7C	ROOM 5	ND	PLM	Good			NA
4542-R5-FT8A	ROOM 5	ND	PLM	Good	GREEN FLOOR TILE	FLOOR OF ROOM 5	NA
4542-R5-FT8B		ND	PLM	Good			NA
4542-R5-FT8C		ND	PLM	Good			NA
4542-R5-FT9A		ND	PLM	Good	TAN FLOOR TILE	FLOOR OF ROOM 5	NA
4542-R5-FT9B		ND	PLM	Good			NA
4542-R5-FT9C		ND	PLM	Good			NA
4542-R7-FT10A	ROOM 7	ND	PLM	Good	MARBLE PATTERN FLOOR TILE	FLOOR OF ROOM 7	NA
4542-R7-FT10B		ND	PLM	Good			NA
4542-R7-FT10C		ND	PLM	Good			NA
4542-R1-L11A	ROOM 1	ND	PLM	Good	12" SQUARE PATTERN LINOLEUM	FLOOR OF ROOM 1	NA
4542-R1-L11B		ND	PLM	Good			NA
4542-R1-L11C		ND	PLM	Good			NA

Sample Name	Sample Location	Lab Results/ Asbestos Type	Detection Method(s)	Condition	Material Description	Material Location	NESHAP Classification
4542-R8-L12A	ROOM 8	ND	PLM	Good	SQUARE PATTERN LINOLEUM W/ BLACK MASTIC	FLOOR OF ROOM 8	NA
4542-R8-L12B		ND	PLM	Good			NA
4542-R8-L12Q		ND	PLM	Good			NA
4542-R8-L12C		ND	PLM	Good			NA
4542-R4-CM13A	ROOM 4	ND	PLM	Good	CERAMIC TILE/MORTAR	FLOOR OF ROOM 4	NA
4542-R4-CM13B		ND	PLM	Good			NA
4542-R4-CM13C		ND	PLM	Good			NA
4542-EX-S14A	EXTERIOR	ND	PLM	Good	BRICK PATTERN SIDING	EXTERIOR WALLS	NA
4542-EX-S14B		ND	PLM	Good			NA
4542-EX-S14C		ND	PLM	Good			NA
4542-EX-IN15A		ND	PLM	Good	EXTERIOR INSULATION BACKING	EXTERIOR WALLS	NA
4542-EX-IN15B		ND	PLM	Good			NA
4542-EX-IN15C		ND	PLM	Good			NA
4542-EX-R16A		ND	PLM	Good	ROOFING	ROOF	NA
4542-EX-R16B		ND	PLM	Good			NA
4542-EX-R16C		ND	PLM	Good			NA
4542-EX-WC17A		ND	PLM	Good	WINDOW CAULKING	WINDOWS	NA
4542-EX-WC17B		ND	PLM	Good			NA
4542-EX-WC17C		ND	PLM	Good			NA

ND=Non-Detect
PLM=Polarized Light Microscopy
NA=Not Applicable

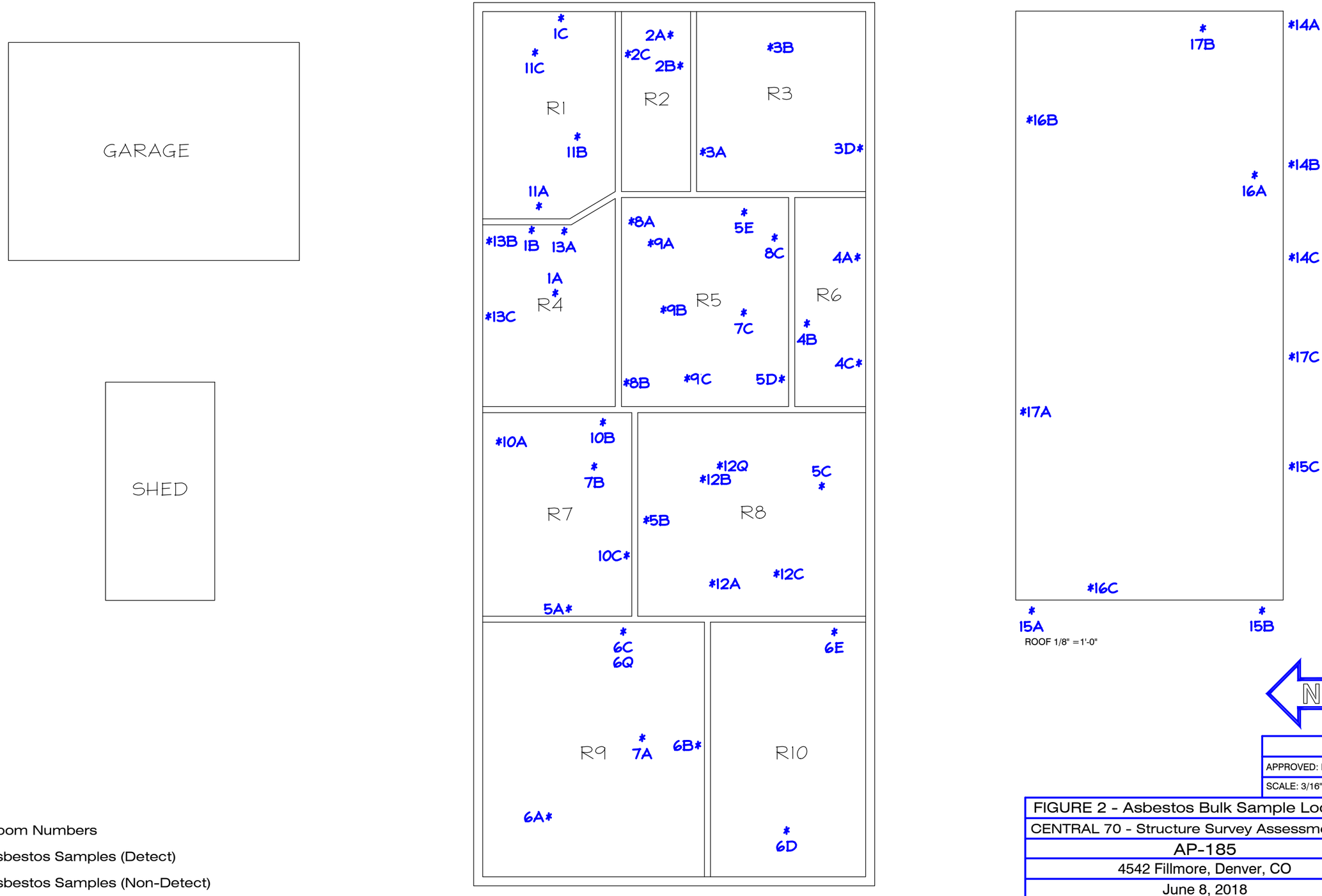
Table 3 Summary of Paint Chip Analysis for Lead

Sample Number	Sample Location	Lead Concentration (% wt.)	Component	Paint Description	Classification
4542F-EX-1L	Exterior	<0.0080	Masonite	Brown	NLC
4542F-R9-2L	**Room 9**	**0.19**	**Wood**	**White**	**LCP**
4542F-2Q	**Control**	**0.18**	**Wood**	**White**	**LCP**
4542F-R9-3L	Room 9	<0.0080	Wood	White	NLC
4542F-R2-4L	Room 2	0.011	Wood	Dark Blue/White	NLC
4542F-R3-5L	**Room 3**	**2.0**	**Wood**	**Light Blue/White**	**LBP**
4542F-R5-6L	**Room 5**	**3.3**	**Drywall**	**Robin Egg Blue**	**LBP**
4542F-R5-7L	**Room 5**	**2.2**	**Drywall**	**Light Blue/Green**	**LBP**
4542F-G-8L	Garage	<0.0080	Wood	Gray	NLC

Table 4 Summary of Regulated Building Materials

Room	Material	Location	Quantity Fixture/Bulbs each
Exterior	Gas Meter	South Side house	1
Room 6	Furnace	Middle	1
Room 4	Refridgerator	North Side of Room	1
Exterior	Electrical Meter	East Side of House	1
Exterior	Breaker Box	East Side of House	1

FIGURE 1
AP-185



R1 = Room Numbers

4B = Asbestos Samples (Detect)

4B = Asbestos Samples (Non-Detect)

APPROVED: B.N.E.

SCALE: 3/16" =1'-0"

FIGURE 2 - Asbestos Bulk Sample Locations

CENTRAL 70 - Structure Survey Assessment Map

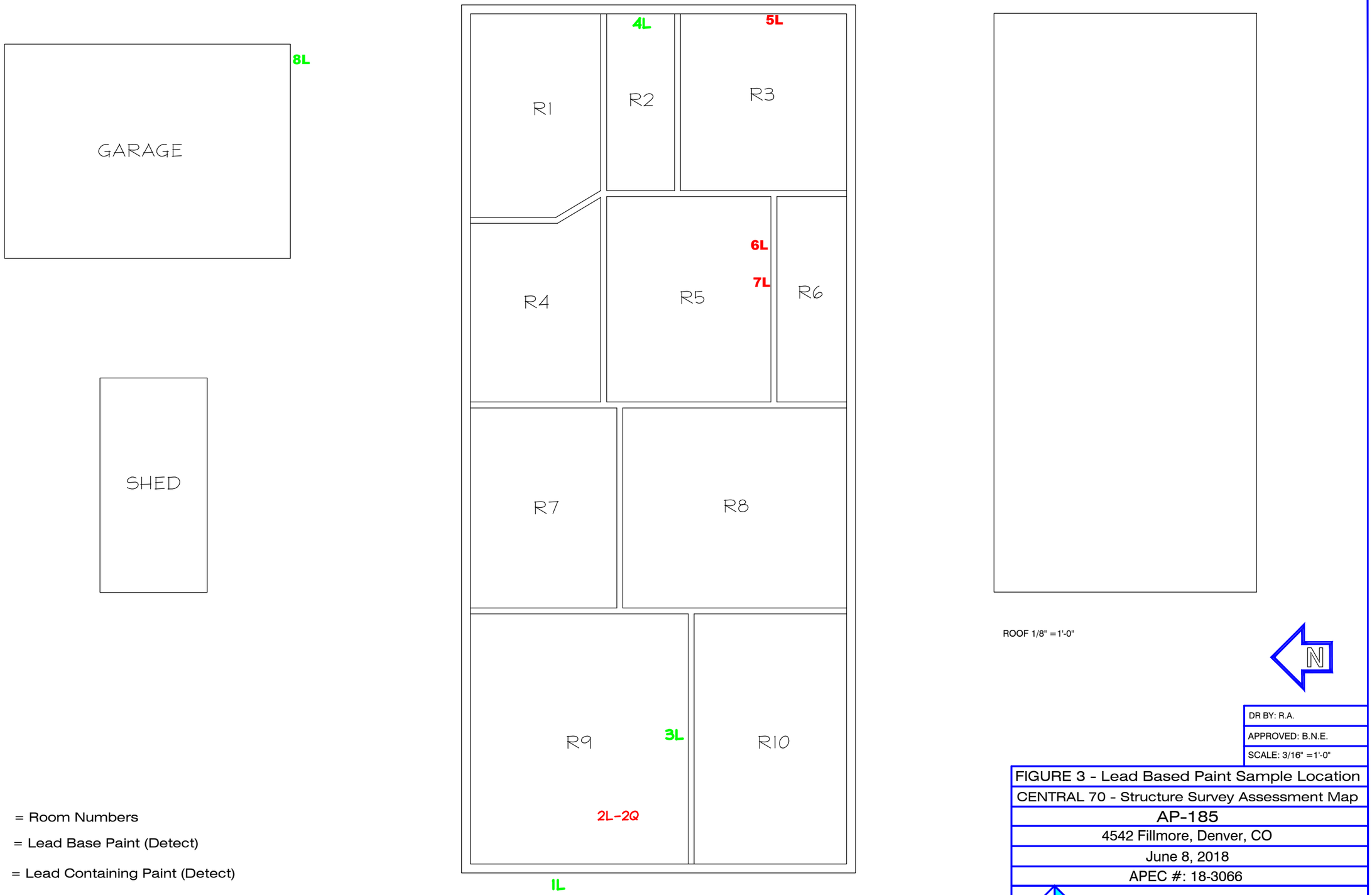
AP-185

4542 Fillmore, Denver, CO

June 8, 2018

APEC #: 18-3066

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



ROOF 1/8" =1'-0"

N

R1 = Room Numbers

4 = Lead Base Paint (Detect)

4 = Lead Containing Paint (Detect)

4 = Lead Base Paint (Non-Detect)

DR BY: R.A.
APPROVED: B.N.E.
SCALE: 3/16" =1'-0"

FIGURE 3 - Lead Based Paint Sample Location

CENTRAL 70 - Structure Survey Assessment Map

AP-185

4542 Fillmore, Denver, CO

June 8, 2018

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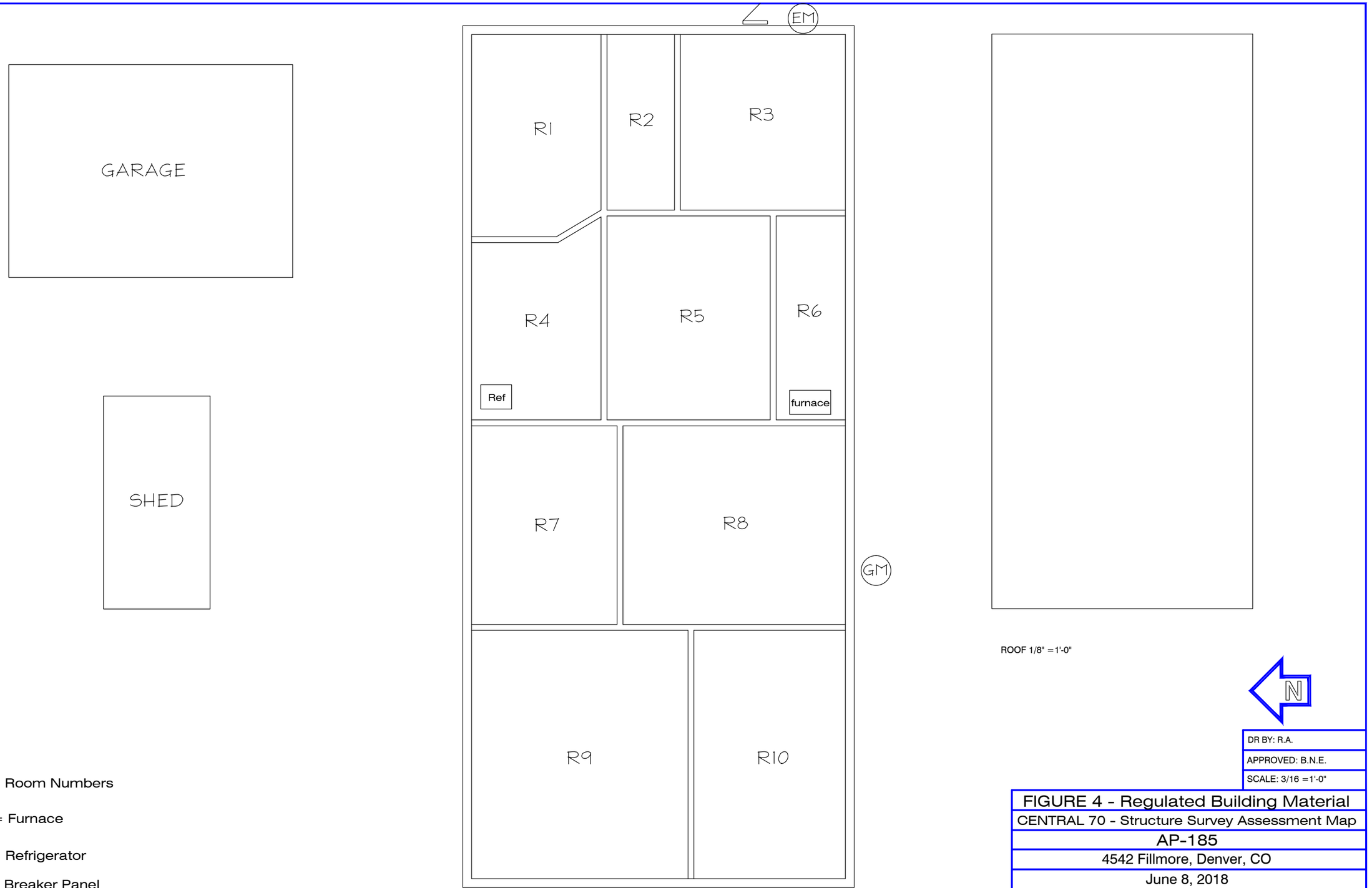
ALL-PHASE
ENVIRONMENTAL CONSULTANTS, INC.
721 W 9TH STREET
Pueblo, CO 81003 Ph: (719) 545-0375



ROOF 1/8" =1'-0"

R1 = Room Numbers

furnace = Furnace

Ref = Refrigerator

= Breaker Panel

GM = Gas Meter

EM = Electric Meter

N

DR BY: R.A.

APPROVED: B.N.E.

SCALE: 3/16 =1'-0"

FIGURE 4 - Regulated Building Material

CENTRAL 70 - Structure Survey Assessment Map

AP-185

4542 Fillmore, Denver, CO

June 8, 2018

APEC #: 18-3066

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

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: **October 18, 2017**

Expires: **October 18, 2018**

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

Authorized APCD Representative

SEAL

CHC TRAINING

1775 West 55th Avenue
Denver, CO 80221
303.410.4941
trainingchc.com

Certifies that

Logan Greenfield

20715

Has Successfully Completed the EPA- Approved Annual Asbestos Refresher Training Course Under Section 206 of the Toxic Substance Control Act (TSCA), Title II.

BUILDING INSPECTOR

Course Date: September 20, 2017
Certificate No.: R17-1661-AI-CO
No. of Hours: 4
Expiration Date: September 20, 2018

Certification not valid without watermark

Frank Hulce - Instructor

Danaya Benedetto- Training Program Manager

Colorado Department
of Public Health
and Environment

LEAD-BASED PAINT CERTIFICATION*

This certifies that

Richard L. Ralston

Certification No.: 9130

has met the requirements of 25-7-1104, C.R.S. and Air Quality Control Commission Regulation No. 19, and is hereby certified by the state of Colorado in the following discipline:

Risk Assessor*

Issued: **February 10, 2017**

Expires: **February 10, 2019**

** This certificate is valid only with the possession of a valid lead-based paint training certificate in the discipline specified above, issued by either a Colorado approved training provider, an EPA approved training provider, or a training provider approved by another EPA authorized program.*

Authorized APCD Representative

SEAL

CHC TRAINING

1775 West 55th Avenue
Denver, CO 80221
303.410.4941
trainingchc.com

Certifies that

Richard Ralston

Has successfully completed the required training hours and passed the examination required by the Colorado Department of Public Health and Environment for:

Lead-Based Paint Risk Assessor Refresher

For the purposes of accreditation under the Colorado Department of Public Health and Environment Regulation No. 19 and other standard developed by EPA pursuant to Title IV of TSCA

Course Date: April 6, 2016
Certificate No.: R16-031-LRA-CO
No. of Hours: 8
Expiration Date: April 6, 2019

Certification not valid without watermark

Luis E. Peon

Luis Peon - Instructor

Danaya Benedetto

Danaya Benedetto - Training Program Manager

United States Department of Commerce
National Institute of Standards and Technology

Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 200828-0

EMSL Analytical, Inc.

Denver, CO

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

Asbestos Fiber Analysis

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2018-04-01 through 2019-03-31

Effective Dates

For the National Voluntary Laboratory Accreditation Program

NVLAP® National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

EMSL Analytical, Inc.
1010 Yuma Street
Denver, CO 80204
Ms. Amanda Lang
Phone: 303-740-5700
Email: alang@emsl.com
http://www.emsl.com

ASBESTOS FIBER ANALYSIS — NVLAP LAB CODE 200828-0

Bulk Asbestos Analysis

Code	*Description*
18/A01	EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

Airborne Asbestos Analysis

Code	*Description*
18/A02	U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.

For the National Voluntary Laboratory Accreditation Program

AIHA Laboratory Accreditation Programs, LLC

acknowledges that

EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Laboratory ID: 100194

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2005 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories* in the following:

LABORATORY ACCREDITATION PROGRAMS

✓	**INDUSTRIAL HYGIENE**	Accreditation Expires: September 01, 2018
✓	**ENVIRONMENTAL LEAD**	Accreditation Expires: September 01, 2018
✓	**ENVIRONMENTAL MICROBIOLOGY**	Accreditation Expires: September 01, 2018
☐	**FOOD**	Accreditation Expires:
☐	**UNIQUE SCOPES**	Accreditation Expires:

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached **Scope of Accreditation**. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2005 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached **Scope of Accreditation**. Please review the AIHA-LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

William Walsh, CIH
Chairperson, Analytical Accreditation Board

Cheryl O. Morton
Managing Director, AIHA Laboratory Accreditation Programs, LLC

Revision 15: 03/30/2016

Date Issued: 08/31/2016

AIHA Laboratory Accreditation Programs, LLC
SCOPE OF ACCREDITATION

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077

Laboratory ID: **100194**
Issue Date: 08/31/2016

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or withdrawal of accreditation.

The EPA recognizes the AIHA-LAP, LLC ELLAP program as meeting the requirements of the National Lead Laboratory Accreditation Program (NLLAP) established under Title X of the Residential Lead-Based Paint Hazard Reduction Act of 1992 and includes paint, soil and dust wipe analysis. Air analysis is not included as part of the NLLAP.

Environmental Lead Laboratory Accreditation Program (ELLAP)

Initial Accreditation Date: 01/18/1995

Field of Testing (FoT)	Technology sub-type/ Detector	Method	Method Description (*for internal methods only*)
Paint		EPA SW-846 3050B	
		EPA SW-846 7000B	
Soil		EPA SW-846 3050B	
		EPA SW-846 7000B	
Settled Dust by Wipe		EPA SW-846 3050B	
		EPA SW-846 7000B	
Airborne Dust		NIOSH 7082	
Composited Wipes		EPA SW-846 3050B	
		EPA SW-846 7000B	

A complete listing of currently accredited Environmental Lead laboratories is available on the AIHA-LAP, LLC website at: http://www.aihaaccreditedlabs.org

B

POSITIVE LEAD SAMPLE MATERIAL PHOTOGRAPHS

 White - LCP	Samples Represented – 4542F-R9-2L 4542F-2Q
 Lt. Blue/White - LBP	Sample Represented – 4542F-R3-5L
 Robin Egg Blue - LBP	Sample Represented – 4542F-R5-6L

 Light Blue/Green - LBP	Sample Represented – 4542F-R5-7L

C

LABORATORY RESULTS & CHAIN OF CUSTODY- ASBESTOS

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: 221804257
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: 06/12/2018 10:05 AM
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Project: 18-3066-CDOT-A-AP185

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
4542-R4-TD1A-Dry wall *221804257-0001*	Textured Drywall	Brown/White Fibrous Heterogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other)	**None Detected**
			Inseparable paint / coating layer included in analysis		
4542-R4-TD1B-Joint Compound *221804257-0002*	Textured Drywall	White Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	**None Detected**
4542-R4-TD1B-Dry wall *221804257-0002A*	Textured Drywall	Brown/White Fibrous Heterogeneous		15% Ca Carbonate 70% Gypsum 15% Non-fibrous (Other)	**None Detected**
			Inseparable paint / coating layer included in analysis		
4542-R1-TD1C-Dry wall *221804257-0003*	Textured Drywall	Gray/Beige Fibrous Heterogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other)	**None Detected**
			Inseparable paint / coating layer included in analysis		
4542-R2-DJ2A-Joint Compound *221804257-0004*	Drywall/Joint Compound	White Non-Fibrous Homogeneous		20% Ca Carbonate 80% Non-fibrous (Other)	**None Detected**
4542-R2-DJ2A-Dry wall *221804257-0004A*	Drywall/Joint Compound	Brown/White Fibrous Homogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other)	**None Detected**
4542-R2-DJ2B-Joint Compound *221804257-0005*	Drywall/Joint Compound	White Non-Fibrous Homogeneous		20% Ca Carbonate 80% Non-fibrous (Other)	**None Detected**
4542-R2-DJ2B-Dry wall *221804257-0005A*	Drywall/Joint Compound	Brown/White Fibrous Homogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other)	**None Detected**
4542-R2-DJ2C-Joint Compound *221804257-0006*	Drywall/Joint Compound	White Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	**None Detected**

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
4542-R2-DJ2C-Dry wall *221804257-0006A*	Drywall/Joint Compound	Gray/Beige Fibrous Homogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other)	**None Detected**
4542-R3-TD3A-Dry wall *221804257-0007*	Textured Drywall	Brown/White Fibrous Heterogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other)	**None Detected**
		Inseparable paint / coating layer included in analysis			
4542-R3-TD3B-Texture *221804257-0008*	Textured Drywall	Tan/White Non-Fibrous Heterogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	**None Detected**
		Inseparable paint / coating layer included in analysis			
4542-R3-TD3B-Tape *221804257-0008A*	Textured Drywall	Beige Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	**None Detected**
4542-R3-TD3B-Joint Compound *221804257-0008B*	Textured Drywall	White Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	**None Detected**
4542-R3-TD3B-Dry wall *221804257-0008C*	Textured Drywall	Brown/White Fibrous Homogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other)	**None Detected**
4542-R3-TD3C-Texture *221804257-0009*	Textured Drywall	White Non-Fibrous Heterogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	**None Detected**
		Inseparable paint / coating layer included in analysis			
4542-R3-TD3C-Dry wall *221804257-0009A*	Textured Drywall	Gray/Beige Fibrous Homogeneous	15% Cellulose	65% Gypsum 20% Non-fibrous (Other)	**None Detected**
4542-R6-TD4A-Texture *221804257-0010*	Textured Drywall	White Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	**None Detected**
		Inseparable paint / coating layer included in analysis			

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
4542-R6-TD4A-Tape *221804257-0010A*	Textured Drywall	Beige Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	**None Detected**
4542-R6-TD4A-Joint Compound *221804257-0010B*	Textured Drywall	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	**None Detected**
4542-R6-TD4A-Dry wall *221804257-0010C*	Textured Drywall	Brown/Beige Fibrous Homogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other)	**None Detected**
4542-R6-TD4B-Dry wall *221804257-0011*	Textured Drywall	Brown/White Fibrous Homogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other)	**None Detected**
			Inseparable paint / coating layer included in analysis		
4542-R6-TD4C-Texture *221804257-0012*	Textured Drywall	White/Beige Non-Fibrous Heterogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	**None Detected**
			Inseparable paint / coating layer included in analysis		
4542-R6-TD4C-Tape *221804257-0012A*	Textured Drywall	Yellow Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	**None Detected**
4542-R6-TD4C-Joint Compound *221804257-0012B*	Textured Drywall	White Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	**None Detected**
4542-R6-TD4C-Dry wall *221804257-0012C*	Textured Drywall	White/Beige Fibrous Heterogeneous	15% Cellulose	65% Gypsum 20% Non-fibrous (Other)	**None Detected**
			Inseparable paint / coating layer included in analysis		
4542-R7-PL5A-Skim Coat *221804257-0013*	Textured Plaster	White/Beige Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	**None Detected**
			Inseparable paint / coating layer included in analysis		

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Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
4542-R7-PL5A-Plaster *221804257-0013A*	Textured Plaster	Gray Non-Fibrous Homogeneous	2% Hair	98% Non-fibrous (Other)	**None Detected**
4542-R8-PL5B-Skim Coat *221804257-0014*	Textured Plaster	White/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	**None Detected**
			Inseparable paint / coating layer included in analysis		
4542-R8-PL5B-Plaster *221804257-0014A*	Textured Plaster	Gray Non-Fibrous Homogeneous	<1% Hair	100% Non-fibrous (Other)	**None Detected**
4542-R8-PL5C-Skim Coat *221804257-0015*	Textured Plaster	White/Beige Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	**None Detected**
			Inseparable paint / coating layer included in analysis		
4542-R8-PL5C-Plaster *221804257-0015A*	Textured Plaster	Gray Non-Fibrous Homogeneous	<1% Hair	100% Non-fibrous (Other)	**None Detected**
4542-R5-PL5D-Wall paper *221804257-0016*	Textured Plaster	Brown/White Non-Fibrous Heterogeneous	90% Cellulose	10% Non-fibrous (Other)	**None Detected**
			Inseparable paint / coating layer included in analysis		
4542-R5-PL5D-Skim Coat *221804257-0016A*	Textured Plaster	White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	**None Detected**
4542-R5-PL5D-Plaster *221804257-0016B*	Textured Plaster	Beige Fibrous Homogeneous	<1% Hair	100% Non-fibrous (Other)	**None Detected**
4542-R5-PL5E-Wall paper *221804257-0017*	Textured Plaster	Brown/Tan Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	**None Detected**

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
4542-R5-PL5E-Skim Coat *221804257-0017A*	Textured Plaster	White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	**None Detected**
4542-R5-PL5E-Plaster *221804257-0017B*	Textured Plaster	Beige Fibrous Homogeneous	<1% Hair	100% Non-fibrous (Other)	**None Detected**
4542-R9-TD6A-Drywall *221804257-0018*	Textured Drywall	Brown/White Fibrous Heterogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other) Inseparable paint / coating layer included in analysis	**None Detected**
4542-R9-TD6B-Texture *221804257-0019*	Textured Drywall	White Non-Fibrous Heterogeneous		25% Ca Carbonate 75% Non-fibrous (Other) Inseparable paint / coating layer included in analysis	**None Detected**
4542-R9-TD6B-Drywall *221804257-0019A*	Textured Drywall	Brown/White Fibrous Homogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other)	**None Detected**
4542-R9-TD6C-Drywall *221804257-0020*	Textured Drywall	Brown/White Fibrous Heterogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other) Inseparable paint / coating layer included in analysis	**None Detected**
4542-R9-TD6Q-Drywall *221804257-0021*	Textured Drywall	Brown/White Fibrous Heterogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other) Inseparable paint / coating layer included in analysis	**None Detected**
4542-R10-TD6D-Texture *221804257-0022*	Textured Drywall	White Non-Fibrous Heterogeneous		15% Ca Carbonate 85% Non-fibrous (Other) Inseparable paint / coating layer included in analysis	**None Detected**

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
4542-R10-TD6D-Tape *221804257-0022A*	Textured Drywall	Yellow Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	**None Detected**
4542-R10-TD6D-Joint Compound *221804257-0022B*	Textured Drywall	White Non-Fibrous Homogeneous		20% Ca Carbonate 80% Non-fibrous (Other)	**None Detected**
4542-R10-TD6D-Drywall *221804257-0022C*	Textured Drywall	Tan Fibrous Homogeneous	15% Cellulose	65% Gypsum 20% Non-fibrous (Other)	**None Detected**
4542-R10-TD6E-Drywall *221804257-0023*	Textured Drywall	Tan Fibrous Heterogeneous	15% Cellulose	65% Gypsum 20% Non-fibrous (Other)	**None Detected**
		Inseparable paint / coating layer included in analysis			
4542-R9--L7A *221804257-0024*	8" Square Pattern Linoleum	Tan Fibrous Homogeneous	55% Cellulose 5% Glass	40% Non-fibrous (Other)	**None Detected**
4542-R7-L7B *221804257-0025*	8" Square Pattern Linoleum	Tan Fibrous Homogeneous	55% Cellulose 5% Glass	40% Non-fibrous (Other)	**None Detected**
4542-R5-L7C *221804257-0026*	8" Square Pattern Linoleum	Beige Fibrous Homogeneous	20% Cellulose 2% Glass	78% Non-fibrous (Other)	**None Detected**
4542-R5-FT8A-Flooring *221804257-0027*	Green Floor Tile	Brown/Green Fibrous Homogeneous	45% Cellulose	55% Non-fibrous (Other)	**None Detected**
4542-R5-FT8A-Tan Mastic *221804257-0027A*	Green Floor Tile	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	**None Detected**
4542-R5-FT8A-Underlayment *221804257-0027B*	Green Floor Tile	Brown Fibrous Homogeneous	55% Cellulose	45% Non-fibrous (Other)	**None Detected**

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
4542-R5-FT8A-Brown Mastic *221804257-0027C*	Green Floor Tile	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	**None Detected**
4542-R5-FT8B-Flooring *221804257-0028*	Green Floor Tile	Brown/Green Fibrous Homogeneous	55% Cellulose	45% Non-fibrous (Other)	**None Detected**
4542-R5-FT8B-Mastic *221804257-0028A*	Green Floor Tile	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	**None Detected**
4542-R5-FT8C-Flooring *221804257-0029*	Green Floor Tile	Green Non-Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	**None Detected**
4542-R5-FT8C-Mastic *221804257-0029A*	Green Floor Tile	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	**None Detected**
4542-R5-FT8C-Underlayment *221804257-0029B*	Green Floor Tile	Black Fibrous Homogeneous	55% Cellulose	45% Non-fibrous (Other)	**None Detected**
4542-R5-FT9A-Flooring *221804257-0030*	Tan Floor Tile	Brown/Tan Fibrous Homogeneous	55% Cellulose	45% Non-fibrous (Other)	**None Detected**
4542-R5-FT9A-Mastic *221804257-0030A*	Tan Floor Tile	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	**None Detected**
4542-R5-FT9B-Flooring *221804257-0031*	Tan Floor Tile	Brown/Tan Fibrous Homogeneous	55% Cellulose	45% Non-fibrous (Other)	**None Detected**
4542-R5-FT9B-Mastic *221804257-0031A*	Tan Floor Tile	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	**None Detected**

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Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
4542-R5-FT9C-Flooring *221804257-0032*	Tan Floor Tile	Tan/Black Fibrous Homogeneous	30% Cellulose	70% Non-fibrous (Other)	**None Detected**
4542-R5-FT9C-Mastic *221804257-0032A*	Tan Floor Tile	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	**None Detected**
4542-R5-FT9C-Underlayment *221804257-0032B*	Tan Floor Tile	Black Fibrous Homogeneous	55% Cellulose	45% Non-fibrous (Other)	**None Detected**
4542-R7-FT10A *221804257-0033*	Marble Pattern Floor Tile	Beige/Clear Non-Fibrous Homogeneous		100% Non-fibrous (Other)	**None Detected**
			Result includes a small amount of inseparable attached clear adhesive		
4542-R7-FT10B *221804257-0034*	Marble Pattern Floor Tile	Beige/Clear Non-Fibrous Homogeneous		100% Non-fibrous (Other)	**None Detected**
			Result includes a small amount of inseparable attached clear adhesive		
4542-R7-FT10C-Floor Tile *221804257-0035*	Marble Pattern Floor Tile	Tan/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	**None Detected**
4542-R7-FT10C-Mastic *221804257-0035A*	Marble Pattern Floor Tile	Clear Non-Fibrous Homogeneous		100% Non-fibrous (Other)	**None Detected**
4542-R1-L11A-Flooring *221804257-0036*	12" Square Pattern Linoleum	Beige Fibrous Homogeneous	45% Cellulose 5% Glass	50% Non-fibrous (Other)	**None Detected**
4542-R1-L11B-Flooring *221804257-0037*	12" Square Pattern Linoleum	Beige Fibrous Homogeneous	45% Cellulose 5% Glass	50% Non-fibrous (Other)	**None Detected**

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Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
4542-R1-L11B-Mastic *221804257-0037A*	12" Square Pattern Linoleum	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	**None Detected**
4542-R1-L11C-Flooring *221804257-0038*	12" Square Pattern Linoleum	Beige Fibrous Homogeneous	30% Cellulose 2% Glass	68% Non-fibrous (Other)	**None Detected**
4542-R8-L12A *221804257-0039*	Square Pattern Linoleum w/Black Mastic	Black/Beige Fibrous Homogeneous	55% Cellulose	45% Non-fibrous (Other)	**None Detected**
4542-R8-L12B *221804257-0040*	Square Pattern Linoleum w/Black Mastic	Black/Beige Fibrous Homogeneous	55% Cellulose	45% Non-fibrous (Other)	**None Detected**
4542-R8-L12Q *221804257-0041*	Square Pattern Linoleum w/Black Mastic	Black/Beige Fibrous Homogeneous	55% Cellulose	45% Non-fibrous (Other)	**None Detected**
4542-R8-L12C-Flooring *221804257-0042*	Square Pattern Linoleum w/Black Mastic	Tan/Beige Non-Fibrous Homogeneous	25% Cellulose	75% Non-fibrous (Other)	**None Detected**
4542-R8-L12C-Mastic *221804257-0042A*	Square Pattern Linoleum w/Black Mastic	Black Fibrous Homogeneous	25% Cellulose	75% Non-fibrous (Other)	**None Detected**
4542-R4-CM13A-Ceramic Tile *221804257-0043*	Ceramic tile/Mortar	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	**None Detected**
4542-R4-CM13A-Drywall *221804257-0043A*	Ceramic tile/Mortar	Brown/White Fibrous Homogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other)	**None Detected**
4542-R4-CM13B-Ceramic Tile *221804257-0044*	Ceramic tile/Mortar	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	**None Detected**

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Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0

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Pueblo, CO 81003

Project: 18-3066-CDOT-A-AP185

Phone: (719) 250-0036
Fax: (719) 542-2807
Received Date: 06/12/2018 10:05 AM
Analysis Date: 06/16/2018
Collected Date: 05/08/2018

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
4542-R4-CM13B-Mastic *221804257-0044A*	Ceramic tile/Mortar	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	**None Detected**
4542-R4-CM13C-Ceramic Tile *221804257-0045*	Ceramic tile/Mortar	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	**None Detected**
4542-R4-CM13C-Mastic *221804257-0045A*	Ceramic tile/Mortar	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	**None Detected**
4542-EX-S14A *221804257-0046*	Brick Pattern Siding	Brown/Red/Black Fibrous Heterogeneous	40% Cellulose	60% Non-fibrous (Other)	**None Detected**
4542-EX-S14B *221804257-0047*	Brick Pattern Siding	Brown/Red/Black Fibrous Heterogeneous	40% Cellulose	60% Non-fibrous (Other)	**None Detected**
4542-EX-S14C *221804257-0048*	Brick Pattern Siding	Tan/Red/Black Fibrous Homogeneous	25% Cellulose	75% Non-fibrous (Other)	**None Detected**
4542-EX-IN15A *221804257-0049*	Exterior Insulation Backing	Brown/Black/Silver Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	**None Detected**
4542-EX-IN15B *221804257-0050*	Exterior Insulation Backing	Brown/Black/Silver Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	**None Detected**
4542-EX-IN15C *221804257-0051*	Exterior Insulation Backing	Black/Silver Fibrous Heterogeneous	55% Cellulose	45% Non-fibrous (Other)	**None Detected**
			Result includes a small amount of inseparable attached material		
4542-EX-R16A-Shingle *221804257-0052*	Roofing	Black Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	**None Detected**

Initial report from: 06/16/2018 12:37:06

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: 221804257
Customer ID: ALLP62
Customer PO:
Project ID:

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

Project: 18-3066-CDOT-A-AP185

Phone: (719) 250-0036
Fax: (719) 542-2807
Received Date: 06/12/2018 10:05 AM
Analysis Date: 06/16/2018
Collected Date: 05/08/2018

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
4542-EX-R16A-Tar Paper *221804257-0052A*	Roofing	Black Fibrous Homogeneous	55% Cellulose	45% Non-fibrous (Other)	**None Detected**
4542-EX-R16B-Shingle *221804257-0053*	Roofing	Black Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	**None Detected**
4542-EX-R16B-Tar Paper *221804257-0053A*	Roofing	Black Fibrous Homogeneous	55% Cellulose	45% Non-fibrous (Other)	**None Detected**
4542-EX-R16C-Shingle *221804257-0054*	Roofing	Black Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	**None Detected**
4542-EX-R16C-Tar Paper *221804257-0054A*	Roofing	Black Fibrous Homogeneous	45% Cellulose 5% Glass	50% Non-fibrous (Other)	**None Detected**
4542-EX-WC17A *221804257-0055*	Window Caulk	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	**None Detected**
4542-EX-WC17B *221804257-0056*	Window Caulk	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	**None Detected**
4542-EX-WC17C *221804257-0057*	Window Caulk	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	**None Detected**

Initial report from: 06/16/2018 12:37:06

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: 221804257
Customer ID: ALLP62
Customer PO:
Project ID:

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

Project: 18-3066-CDOT-A-AP185

Phone: (719) 250-0036
Fax: (719) 542-2807
Received Date: 06/12/2018 10:05 AM
Analysis Date: 06/16/2018
Collected Date: 05/08/2018

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:	06/12/2018	Sample Receipt Time:	10:05 AM
Analysis Completed Date:	06/16/2018	Analysis Completed Time:	12:28 PM

Analyst(s):

Gentry Catlett PLM (62)

Timothy Kleehammer PLM (39)

Samples Reviewed and approved by:

Amanda Lang, Asbestos Laboratory Manager
or other approved signatory

Initial report from: 06/16/2018 12:37:06

OrderID: 221804257

EMSL Analytical, Inc.
1010 Yuma Street

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

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*: 221804257

Company: All-Phase Environmental Consultants, Inc.		**EMSL-Bill to:** ☐ Different ☑ Same If Bill to is Different note instructions in Comments** *Third Party Billing requires written authorization from third party*	
Street: 721 W. 9th Street			
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: 18-3066-CDOT-A-AP185		**Please Provide Results:** ☐ FAX ☑ E-mail ☐ Mail	
U.S. State Samples Taken: CO		**Connecticut Samples:** ☐ Commercial ☐ 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 ☐ Check if samples are from NY
- ☐ NIOSH 7400
- ☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
- ■ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)

Point Count
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)

Point Count w/Gravimetric
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
- ☐ NYS 198.1 (friable in NY)
- ☐ NYS 198.6 NOB (non-friable-NY)
- ☐ NIOSH 9002 (<1%)

TEM – Air ☐ **4-4.5hr TAT (AHERA only)**
- ☐ AHERA 40 CFR, Part 763
- ☐ NIOSH 7402
- ☐ EPA Level II
- ☐ ISO 10312

TEM - Bulk
- ☐ TEM EPA NOB
- ☐ NYS NOB 198.4 (non-friable-NY)
- ☐ Chatfield SOP
- ☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
- Fibers >10µm ☐ Waste ☐ Drinking
- All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
- ☐ Microvac - ASTM D 5755
- ☐ Wipe - ASTM D6480
- ☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
- ☐ PLM CARB 435 - A (0.25% sensitivity)
- ☐ PLM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - C (0.01% sensitivity)
- ☐ TEM Qual. via Filtration Technique
- ☐ TEM Qual. via Drop-Mount Technique

Other:
- ☐

☐ **Check For Positive Stop – Clearly Identify Homogenous Group** | **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
4542F-R4-TD1A	Textured Drywall	—	6-8-18
4542F-R4-TD1B	↓	—	↓
4542F-R1-TD1C	↓	—	↓
4542F-R2-DJ2A	Drywall/Joint Compound	—	↓
4542F-R2-DJ2B	↓	—	↓
4542F-R2-DJ2C	↓	—	↓
4542F-R3-TD3A	Textured Drywall	—	↓
4542F-R3-TD3B	↓	—	↓

Client Sample # (s): - **Total # of Samples:** 57

Relinquished (Client): [signature] **Date:** 6-11-18 **Time:** 510

Received (Lab): MR **Date:** 6/12/18 **Time:** 10:05

Comments/Special Instructions:

EFY 7955 0259 ~~0257~~ 4860

3/4

MR 6/12/18

Page 1 of 4 pages

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

EMSL Analytical, Inc.
1010 Yuma Street

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

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*:

221804257

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
4542F-R3-TD3C	Textured Drywall	—	6-8-18
4542F-R6-TD4A	Textured Drywall	—	↓
4542F-R6-TD4B	↓	↓	↓
4542F-R6-TD4C	↓	↓	↓
4542F-R7-PL5A	Textured Plaster	↓	↓
4542F-R8-PL5B	↓	↓	↓
4542F-R8-PL5C	↓	↓	↓
4542F-R5-PL5D	↓	↓	↓
4542F-R5-PL5E	↓	↓	↓
4542F-R9-TD6A	Textured Drywall	↓	↓
4542F-R9-TD6B	↓	↓	↓
4542F-R9-TD6C	↓	↓	↓
4542F-R9-TD6Q	↓	↓	↓
4542F-R10-TD6D	↓	↓	↓
4542F-R10-TD6E	↓	↓	↓
4542F-R9-L7A	8" Square Pattern Linoleum	↓	↓
4542F-R7-L7B	↓	↓	↓
4542F-R5-L7C	↓	↓	↓
4542F-R5-FT8A	Green Floor Tile	↓	↓
4542F-R5-FT8B	↓	↓	↓
4542F-R5-FT8C	↓	↓	↓
4542F-R5-FT9A	Tan Floor Tile	↓	↓
4542F-R5-FT9B	↓	↓	↓
4542F-R5-FT9C	↓	↓	↓

***Comments/Special Instructions:**

Page 2 of 4 pages

EMSL Analytical, Inc.
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Denver, CO 80204
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EMSL ANALYTICAL, INC.
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Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*:

221804257

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
4542F-R7-FT10A	Marble Pattern Floor Tile		6-8-18
4542F-R7-FT10B	↓		↓
4542F-R7-FT10C	↓		
4542F-R1-L11A	12" Square Pattern Linoleum		
4542F-R1-L11B	↓		
4542F-R1-L11C	↓		
4542F-R8-L12A	Square Pattern Linoleum w/black mastic		
4542F-R8-L12B	↓		
4542F-R8-12Q	↓		
4542F-R8-12C	↓		
4542F-R4-CM13A	Ceramic Tile/Mortar		
4542F-R4-CM13B	↓		
4542F-R4-CM13C	↓		
4542F-EX-S14A	Brick Pattern Siding		
4542F-EX-S14B	↓		
4542F-EX-S14C	↓		
4542F-EX-IN15A	Exterior Insulation Backing		
4542F-EX-IN15B	↓		
4542F-EX-IN15C	↓		
4542F-EX-R16A	Roofing		
4542F-EX-R16B	↓		
4542F-EX-16C	↓		
4542F-EX-WC17A	Window Caulk		
4542F-EX-WC17B	↓		↓

***Comments/Special Instructions:**

Page 3 of 4 pages

EMSL Analytical, Inc.
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Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*:

221804257

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
4542F-EX-WC17C	Window Caulk	—	6-8-18

*Comments/Special Instructions:

Page 4 of 4 pages

D

LABORATORY RESULTS & CHAIN OF CUSTODY - LEAD & TCLP

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:	201806330
CustomerID:	ALLP62
CustomerPO:	
ProjectID:	

Attn: **Richard Ralston**
All-Phase Environmental Consultants, Inc
721 West 9th Street
Pueblo, CO

Phone:	(719) 225-6953
Fax:	(719) 542-2807
Received:	06/13/18 9:00 AM
Collected:	6/8/2018

Project: **18-3066-C70-L-AP-185**

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

Client Sample Description	*Lab ID*	*Collected*	*Analyzed*	*Weight*	*Lead Concentration*
4542F-EX-1L	*201806330-0001*	6/8/2018	6/14/2018	0.2572 g	<0.0080 % wt
	Site: Exterior - Masonite - Brown				
4542F-R9-2L	*201806330-0002*	6/8/2018	6/14/2018	0.2553 g	0.19 % wt
	Site: Door Frame R9 - White				
4542F-2Q	*201806330-0003*	6/8/2018	6/14/2018	0.2512 g	0.18 % wt
4542F-R9-3L	*201806330-0004*	6/8/2018	6/14/2018	0.2541 g	<0.0080 % wt
	Site: R9 Door Frame - Wood - White				
4542F-R2-4L	*201806330-0005*	6/8/2018	6/14/2018	0.2582 g	0.011 % wt
	Site: Room 2 - Wood Door - Dk Blue/White				
4542F-R3-5L	*201806330-0006*	6/8/2018	6/14/2018	0.2524 g	2.0 % wt
	Site: Room 3 - Window Frame - Lt Blue/White				
4542F-R5-6L	*201806330-0007*	6/8/2018	6/14/2018	0.2518 g	3.3 % wt
	Site: Room 5 - Robin Egg Blue				
4542F-R5-7L	*201806330-0008*	6/8/2018	6/14/2018	0.2538 g	2.2 % wt
	Site: Room 5 - Light Bl/Green				
4542F-G-8L	*201806330-0009*	6/8/2018	6/14/2018	0.2528 g	<0.0080 % wt
	Site: Garage - E End - Gray				

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 06/15/2018 17:05:34

OrderID: 201806330

(LRAP)
4542 = Fillmore

EMSL ANALYTICAL, INC.
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Lead (Pb) Chain of Custody

EMSL Order ID *(Lab Use Only)*: 201806330

EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ 08077
PHONE: 1-800-220-3675
FAX: (856) 786-5974

Company: All-Phase Environmental Consultants, Inc	**EMSL-Bill to:** ☑ Same ☐ Different If Bill to is Different note instructions in Comments** *Third Party Billing requires written authorization from third party*
Street: 721 West 9th Street	
City: Pueblo **State/Province:** CO	**Zip/Postal Code:** 81003 **Country:** US
Report To (Name): Richard Ralston	**Telephone #:** 7192256953
Email Address: rick@allphaseenvironmental.com	**Fax #:** 719-542-2807 **Purchase Order:**
Project Name/Number: 18-3066-C70-L-AP- 185	**Please Provide Results:** ☐ Fax ☑ Email
U.S. State Samples Taken: CO	**CT Samples:** ☐ Commercial/Taxable ☐ 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 ☒ % by wt. ☐ mg/cm² ☐ ppm (mg/kg)	SW846-7000B	Flame Atomic Absorption	0.01%	☒
Air PER RICK 6/13/18 DM	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	☐
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	☐
	NIOSH 7300M/NIOSH 7303	ICP-OES	0.5 µg/filter	☐
Wipe* ASTM ☐ non ASTM ☐ *if no box checked, non-ASTM Wipe assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	☐
	SW846-6010B or C	ICP-OES	1.0 µg/wipe	☐
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW846-1311/SW846-6010B or C	ICP-OES	0.1 mg/L (ppm)	☐
SPLP	SW846-1312/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW846-1312/SW846-6010B or C	ICP-OES	0.1 mg/L (ppm)	☐
TTLC	22 CCR App. II, 7000B/7420	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	22 CCR App. II, SW846-6010B or C	ICP-OES	2 mg/kg (ppm)	☐
STLC	22 CCR App. II, 7000B/7420	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	22 CCR App. II, SW846-6010B or C	ICP-OES	0.1 mg/L (ppm)	☐
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	SW846-6010B or C	ICP-OES	2 mg/kg (ppm)	☐
Wastewater Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.7	ICP-OES	0.020 mg/L (ppm)	☐
Drinking Water Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	☐
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.5	ICP-OES	0.003 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50	ICP-OES	12 µg/filter	☐
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	☐
Other:				☐

Name of Sampler: Richard Ralston **Signature of Sampler:** RRalston

Sample #	Location	Volume/Area	Date/Time Sampled
4542F-EX 1L	EXTERIOR - MASONITE	BROWN	6/8/2018
4542F-RG 2L	DOOR FRAME RG	white	↓

Client Sample #s - **Total # of Samples:** 5

Relinquished (Client):	RRalston	**Date:**	6/8/18	**Time:**	16:00
Received (Lab):	EX	**Date:**	6/12/18	**Time:**	605p

Comments:
BillTo: All-Phase Environmental Consultants, Inc, 721 West 9th Street, Pueblo, CO, 81003, US
Attention: Brandice Eslinger Phone: 719-240-4690 Email: brandice@allphaseenvironmental.com Purchase Order:

add 2Q TO THIS ORDER
PER RICK 6/13/18 DM

QRP

OrderID: 201806330

Used

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

LEAD (Pb) CHAIN OF CUSTODY

EMSL ORDER ID *(Lab Use Only)*: 201806330

EMSL Analytical, Inc.
200 Route 130 North

Cinnaminson, NJ 08077

PHONE: 1-800-220-3675
FAX: (856) 786-5974

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

Sample #	Location	Volume/Area	Date/Time Sampled
45428 - R9-3L	R9 DOOR FRAME WOOD	white	
45428 - R2 4L	Room 2 - wood door	DR Blue/white	
45428 - R3-5L	Room 3 - window frame	4 Blue / white.	
45428 - R5 6L	Room 5	Robin Egg blue	
45428 - R5 7L	Room 5	Light BL/GREEN	
45428 G-8L	GARAGE - (E) end.	SQFT	

Comments/Special Instructions:

BillTo: All-Phase Environmental Consultants, Inc, 721 West 9th Street, Pueblo, CO, 81003, US
Attention: Brandice Eslinger Phone: 719-240-4690 Email: brandice@allphaseenvironmental.com Purchase Order:

Page 2 of 2 pages

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:	201806333
CustomerID:	ALLP62
CustomerPO:	
ProjectID:	

Attn: **Richard Ralston**
All-Phase Environmental Consultants, Inc
721 West 9th Street
Pueblo, CO

Phone:	(719) 225-6953
Fax:	(719) 542-2807
Received:	06/13/18 9:00 AM
Collected:	6/8/2018

Project: **18-3066-C70-L-AP-185 / 4542 Filmore**

Test Report: Toxicity Characteristic Leachate Procedure (1311/7000B)

Client Sample Description	*Lab ID*	*Collected*	*Analyzed*	*Lead* ***Concentration***
AP185-TCLP	*201806333-0001*	6/8/2018	6/15/2018	1.1 mg/L
	Site: Tclp- Throughout			

Phillip Worby, Lead Laboratory Manager
or other approved signatory

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAP Certifications: NJ 03036, NY 10872, PA 68-00367

Initial report from 06/18/2018 13:08:45

OrderID: 201806333

TCLP 4542 Fillmore

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Lead (Pb) Chain of Custody

EMSL Order ID *(Lab Use Only)*: 201806333

EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ 08077
PHONE: 1-800-220-3675
FAX: (856) 786-5974

Company : All-Phase Environmental Consultants, Inc	**EMSL-Bill to:** ☑ Same ☐ Different If Bill to is Different note instructions in Comments** *Third Party Billing requires written authorization from third party*
Street: 721 West 9th Street	
City: Pueblo **State/Province:** CO	**Zip/Postal Code:** 81003 **Country:** US
Report To (Name): Richard Ralston	**Telephone #:** 7192256953
Email Address: rick@allphaseenvironmental.com	**Fax #:** 719-542-2807 **Purchase Order:**
Project Name/Number: 18-3066-C70-L-AP- 185	**Please Provide Results:** ☐ Fax ☑ Email
U.S. State Samples Taken: CO	**CT Samples:** ☐ Commercial/Taxable ☐ 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 ☐ % by wt. ☐ mg/cm² ☐ ppm (mg/kg)	SW846-7000B	Flame Atomic Absorption	0.01%	☐
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	☐
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	☐
	NIOSH 7300M/NIOSH 7303	ICP-OES	0.5 µg/filter	☐
Wipe* ASTM ☐ non ASTM ☐ *if no box checked, non-ASTM Wipe assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	☐
	SW846-6010B or C	ICP-OES	1.0 µg/wipe	☐
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☒
	SW846-1311/SW846-6010B or C	ICP-OES	0.1 mg/L (ppm)	☐
SPLP	SW846-1312/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW846-1312/SW846-6010B or C	ICP-OES	0.1 mg/L (ppm)	☐
TTLC	22 CCR App. II, 7000B/7420	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	22 CCR App. II, SW846-6010B or C	ICP-OES	2 mg/kg (ppm)	☐
STLC	22 CCR App. II, 7000B/7420	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	22 CCR App. II, SW846-6010B or C	ICP-OES	0.1 mg/L (ppm)	☐
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	SW846-6010B or C	ICP-OES	2 mg/kg (ppm)	☐
Wastewater Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.7	ICP-OES	0.020 mg/L (ppm)	☐
Drinking Water Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	☐
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.5	ICP-OES	0.003 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50	ICP-OES	12 µg/filter	☐
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	☐
Other:				☐

Name of Sampler: Rich Ralston **Signature of Sampler:** RRalston

Sample #	Location	Volume/Area	Date/Time Sampled
1 AP185-TCLP	1 clip - Throughout	Approx ½ lb.	6/8/2018

Client Sample #s - **Total # of Samples:** 1

Relinquished (Client):	RRalston	**Date:**	6/8/2018	**Time:**	16:00
Received (Lab):	CAFX	**Date:**	6/12/18	**Time:**	6:05P

Comments:
BillTo: All-Phase Environmental Consultants, Inc, 721 West 9th Street, Pueblo, CO, 81003, US
Attention: Brandice Eslinger Phone: 719-240-4690 Email: brandice@allphaseenvironmental.com Purchase Order: cancelled MK 6/13/18 9am

3b. Pre-Demolition Engineering Survey

ANCHOR
ENGINEERING, INC.
www.anchoreng.com

Pre-Demolition Survey
And General Demolition Plan
For
4542 Fillmore Street
Denver, CO 80216

Engineers: David A. Poe, P.E., S.E.
Glen L. Wilson, E.I.

October 1, 2018
Project No: 180113

❖ 2535 17TH STREET, DENVER, CO 80211 ❖ 303-783-4797 ❖ 303-830-9133 FAX ❖

ANCHOR
ENGINEERING, INC.
www.anchoreng.com

October 1, 2018

Stephen P. Di Nardo
JKS Industries, LLC
747 Sheridan Blvd #9A
Lakewood, CO 80214

Re: 4542 Fillmore Street, Denver, CO 80216
Pre-Demolition Engineering Survey per OSHA 1926.850(a)
And General Demolition Plan

Date of Observation: 06/27/18

Dear Mr. Di Nardo:

At the request of JKS Industries (JKS), a representative from Anchor Engineering, Inc. (AEI) performed a site observation at the above-referenced structure on Wednesday, June 27, 2018.

For the purpose of this report, there are three buildings on the property. The front elevation of the residence faces west and is parallel to Fillmore Street. There are two detached garages at the east side of the property adjacent to the alley. At the time of our visit the buildings were vacant.

The purpose of our site visit was twofold:

1. To give an assessment of the current condition of the structure as it relates to structurally related hazards before the proposed demolition activities. OSHA 1926.850 is stated below, along with project specific applicability to the subject building.

    a. ***OSHA 1926.850(a):*** *Prior to permitting employees to start demolition operations, an engineering survey shall be made, by a competent person, of the structure to determine the condition of the framing, floors, and walls, and possibility of unplanned collapse of any portion of the structure. Any adjacent structure where employees may be exposed shall also be similarly checked. The employer shall have in writing evidence that such a survey has been performed.*

    Project Specific Applicability: The information contained in this report satisfies the requirement of this guideline. The subcontractor shall review this report and make a copy available to all employees on the project at the pre-project meeting, and it shall also be included in the job site books. Structures on this property may not be structurally adequate for entry. Refer to the "Existing Condition Observation" section of this report for more information.

    b. ***OSHA 1926.85(b):*** *When employees are required to work within a structure to be demolished which has been damaged by fire, flood, explosion, or other cause, the walls or floor shall be shored or braced.*

    Project Specific Applicability: 4542 Fillmore Street, Denver, CO 80216 has not been damaged by any fire, flood, explosion, or any other event. Therefore, no shoring or bracing is required.

    c. ***OSHA 1926.850(c):*** *All electric, gas, water, steam, sewer, and other service lines shall be shut off, capped, or otherwise controlled, outside the building line before demolition work is started. In each case, any utility company which is involved shall be notified in advance.*

    Project Specific Applicability: The contractor and subcontractor will ensure all electric, gas, water, steam, sewer, and other services are to be cut off prior to any work being performed. Contractor shall confirm

with KMP through the pre-demolition check list and present the necessary information in the pre-demolition meetings.

d. ***OSHA 1926.850(d):*** *If it is necessary to maintain any power, water or other utilities during demolition, such lines shall be temporarily relocated, as necessary, and protected.*

Project Specific Applicability: The demolition of 4542 Fillmore Street, Denver, CO 80216 does not require any power, water or other utilities.

e. ***OSHA 1926.850(e):*** *It shall also be determined if any type of hazardous chemicals, gases, explosives, flammable materials, or similarly dangerous substances have been used in any pipes, tanks, or other equipment on the property. When the presence of any such substances is apparent or suspected, testing and purging shall be performed and the hazard eliminated before demolition is started.*

Project Specific Applicability: Demo contractor should not enter these site structures unless it is known any of the above materials exist within. Then only enter with due caution.

f. ***OSHA 1926.850(f):*** *Where a hazard exists from fragmentation of glass, such hazards shall be removed.*

Project Specific Applicability: All hazards from fragmentation of glass shall be removed in the normal course of demolition.

g. ***OSHA 1926.850(g):*** *Where a hazard exists to employees falling through wall openings, the opening shall be protected to a height of approximately 42 inches.*

Project Specific Applicability: No employees are permitted to enter the structure once demolition begins. Rule applies to interior demolition.

h. ***OSHA 1926.850(h):*** *When debris is dropped through holes in the floor without the use of chutes, the area onto which the material is dropped shall be completely enclosed with barricades not less than 42 inches high and not less than 6 feet back from the projected edge of the opening above. Signs, warning of the hazard of falling materials, shall be posted at each level. Removal shall not be permitted in this lower area until debris handling ceases above.*

Project Specific Applicability: No employees are permitted to enter the structure once demolition begins. Rule applies to interior demolition.

i. ***OSHA 1926.850(i):*** *All floor openings, not used as material drops, shall be covered over with material substantial enough to support the weight of any load which may be imposed. Such material shall be properly secured to prevent its accidental movement.*

Project Specific Applicability: The building is a single story structure. Refer to the demolition sequencing section of this report for further information.

OSHA 1926.850(j): *Except for the cutting of holes in floors for chutes, holes through which to drop materials, preparation of storage space, and similar necessary preparatory work, the demolition of exterior walls and floor construction shall begin at the top of the structure and proceed downward. Each story of exterior wall and floor construction shall be removed and dropped into the storage space before commencing the removal of exterior walls and floors in the story next below.*

Project Specific Applicability: The building is a single story structure. Refer to the demolition sequencing section of this report for further information.

j. ***1926.850(k):*** *Employee entrances to multistory structures being demolished shall be completely protected by sidewalk sheds or canopies, or both, providing protection from the face of the building for a minimum of 8 feet. All such canopies shall be at least 2 feet wider than the building entrances or openings (1 foot wider on each side thereof), and shall be capable of sustaining a load of 150 pounds per square foot.*

Project Specific Applicability: Not applicable. Building is a single story structure. No employees are permitted to enter the structure once demolition begins.

2. Provide a general outline of the demolition procedures and sequence that is proposed to be used in the demolition of the subject structure. These outlined procedures/sequences are subject to change by AEI and/or the demolition contractor based on the observed response of the structure overall and components thereof during actual demolition operations.

No architectural or structural drawings were provided for our review.

The primary structure is a single-story residential structure approximately 22'x50'. No foundation system was visible at the time of our observation. The primary building on this structure appears to be compiled of several additions that may not be safe for entry as they appear to be in very poor condition.. Portions of the structure appear to be cobbled together from repurposed building materials. The structure is assumed to have wood-framed exterior walls and roof framing. Additionally, there are two garages located on the east side of the property. The garages appear to be wood or metal framed with metal siding and roofing. The garage structures both appear to be damaged and unsafe for entry.

Existing Condition Observation

During our site visit we made visual observations around the building perimeters only. Many portions of the structures were not visible. The existing structural systems that were exposed to view appeared to be in poor condition. We saw no evidence of a structural system that could be considered as adequate to support the code required dead and live loads. It is our professional opinion that the possibility of un-planned collapse of any portion of the existing structures is moderate. We recommend that workers may be allowed to enter the building to remove regulated building materials provided that no destructive methods of removal which could affect the structural elements of the building are used. After the buildings have been demolished, any recyclable material may be sorted at that time.

Outline of Proposed Demolition Procedures, Equipment, and Sequence

Equipment

We anticipate demolition for this structure to be completed with heavy equipment including:

- "Track-hoe" excavators capable of reaching structural elements to be demolished. Excavators may be equipped at times with buckets/grapples, hydraulically actuated demolition hammers or shears, and other custom extensions for demolition and/or holding elements for temporary stability.
- Small skid steer loaders may also be utilized from time to time during demolition

Demolition Sequencing

General

After the commencement of demolition with heavy equipment, by necessity, structural systems from this point forth will be destroyed. Demolition should proceed as fast as practical until the structure is demolished in its entirety. The lateral stability of the buildings are provided by the perimeter wood-framed walls.

During demolition operations, care must be taken to protect and prevent damage to any active or live utilities both above and below ground.

During demolition, water will be used to wet down the area that is being demolished prior to starting the demolition. During the demolition process a water spray will be used to minimize the fugitive particulate matter emissions. The ground will be sprayed with water either by water truck or some type of water spray to minimize fugitive particulate emissions from haul trucks and demolition equipment.

Sequence

The residence superstructure may be collapsed starting at either the east or west sides of the building and proceeding thru the length of the building in the east/west direction. Do not drive equipment on to the footprint of the buildings until the structures have been collapsed. The detached garages shall be demolished starting from the east or west sides and proceeding in the east/west direction. The alley will require temporary closure during demolition procedures to prevent public endangerment. The south side of one of the garages is in close proximity to the south property line. The property located to the south was not scheduled for demolition at the time of our observation. Once the roof, wall, and floor systems are demolished, the slab on grade and foundations can be removed in any sequence.

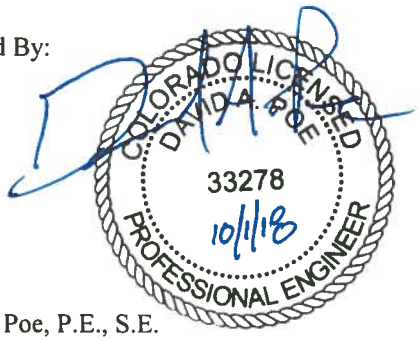
Closing

This report constitutes an engineering review and summary of the pre-demolition condition of the structural systems of the subject buildings as well as a general outline of demolition procedures and sequencing. Note that the conclusions drawn are based on visual observations and our expertise and experience with structural engineering of building structures. Unless noted otherwise, no non-destructive or destructive testing of any kind was performed, nor was any formal engineering analysis completed. These procedures/sequences outlined herein are subject to change by AEI and/or the demolition contractor based on the observed response of the structure overall and components thereof during actual demolition operations. Anchor Engineering, Inc. shall be held harmless for damage of any kind to surrounding structures or property or for injury of any kind to any person or persons. The demolition contractor is responsible for jobsite safety. The conclusions presented in this report are based on conditions noted at the time of the observation. Commentary or recommendations regarding environmental issues are beyond the scope of this report. Should questions arise, or if further information is required regarding the content of this report, please contact our office.

Sincerely,
Anchor Engineering, Inc.

Glen L. Wilson, E.I.
Design Engineer

Reviewed By:



David A. Poe, P.E., S.E.
Principal

4. Materials Summary

December 26, 2018

Jenn Bradtmueller
Kiewit Infrastructure Co.
160 Inverness Drive West, Suite 110
Englewood, CO 80112

RE: AP-185 4542 Fillmore St. – Summary of Removed Materials

Dear Jenn,

Below is a summary of the materials removed from 4542 Fillmore St. Denver, CO 80216.

Material Removed	**Quantity**
Regulated Building Materials	6 Lightbulbs, 1 gal Latex Paint, 1 gal Gasoline, 1 Thermostat
Clean Demolition Debris	352,800 lbs
Recycled Metals (Steel and Copper, Unsegregated)	2,840 lbs

If you have any questions or require further information regarding these quantities, please contact me at 303-238-0207.

Sincerely,
JKS Industries, LLC

Jeffrey Knight
President

5. Waste Manifests

5a. Regulated Building Materials (RBMs) Waste Manifests

WASTE BILL OF LADING & CERTIFICATE OF RECYCLING

BOL#: 27201

X Universal Waste	____4' Jumbo ____4' Box ____8' Jumbo ____8' Box
____ TSCA Waste	____ HID Box ____ Battery Box ____6.5 Gallon Pale
____ Special Waste	____ 14-G PD ____ 30-G PD ____55-G PD ____ CY Bx
	____ 95-G PD ____ 55-G SD ____ 85-G SD ____ GL Box

P/U Fees: $25__$30__$40__$45__$55__
$65__$75__$85__$95__$105__
$115__$125__$135__$145__$155__
Labor Charges: $ _____
Off Spec. Charge: $ _____

Shipment Date: 11/6/18

Generator Of Waste:

Name:
Address:
City, State, Zip:
Contact:
Phone: Fax:
PO# Job#

Bill To: JKS Ins

Name: JKS Industries
Address: 747 Sheridan Blvd.
City, State, Zip: Lakewood Co. 80214
Contact: Jeff Knight
Phone: 720-402-4410 Fax:
PO# Job#

Emergency Contact
(877) 331-2149
Extension 4

WASTE BROKERAGE FACILITY:

X 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

Container Count	Container Type	Waste Common Name	DOT Description	Total Quantity	Unit / Wt. Volume
		4' & UNDER FLUORESCENT LAMP/S RECYCLING	Non-DOT Regulated (per 49 CFR 173.164(e))		
2	CF	5' & OVER FLUORESCENT LAMP/S RECYCLING	Non-DOT Regulated (per 49 CFR 173.164(e))	12	ea.
		UTUBE FLUORESCENT LAMP/S RECYCLING	Non-DOT Regulated (per 49 CFR 173.164(e))		
		CIRCULAR FLUORESCENT LAMP/S RECYCLING	Non-DOT Regulated (per 49 CFR 173.164(e))		
1	CF	COMPACT FLUORESCENT LAMP/S RECYCLING	Non-DOT Regulated (per 49 CFR 173.164(e))	49	ea
		HID MERCURY/HALIDE/SODIUM LAMP/S RECYCLING	Non-DOT Regulated (per 49 CFR 173.164(e))	24	ea
		SHIELD/COATED/GROOVED LAMP/S RECYCLING	Non-DOT Regulated (per 49 CFR 173.164(e))		
		INCANDESCENT LAMP/S RECYCLING	Non-DOT Regulated (per 49 CFR 173.164(e))	36	ea.
		UV/ARC/IGNITRON LAMP/S RECYCLING	Non-DOT Regulated (per 49 CFR 173.164(e))		
		BROKEN LAMP/S RECYCLING	Non-DOT Regulated (per 49 CFR 173.164(e))		
		CRUSHED FLUORESCENT LAMP/S RECYCLING (processed)	Non-DOT Regulated (per 49 CFR 173.164(e))		
		PCB WASTE RECYCLE/INCINERATION/MICROENCAP	RQ, UN3432, Polychlorinated biphenyls, Solid, 9, PGIII, ERG#171		
		NON-PCB BALLAST RECYCLE/MICROENCAPSULATION	Non-RCRA / Non-DOT Regulated Waste		
		ESCRAP RECYCLING	Non-DOT Regulated	110	P
		MERCURY DEVICE RECYCLING	UN3506, Mercury Contained in Manufactured Articles, 8 (6.1), PGIII, ERG#172		
		LEAD ACID BATTERY RECYCLING	UN2794, Batteries, Wet Filled w/ Acid, 8, PGIII, ERG#154		
		ALKALINE BATTERY RECYCLING	Batteries, Dry, sealed, n.o.s. Specail Provision 130		
		NICKEL (Ni-Cad) BATTERY RECYCLING	Batteries, Dry, sealed, n.o.s. Specail Provision 130		
		LITHIUM METAL BATTERY RECYCLING - DOT 173.185(d)	UN3090, Lithium Batteries, 9, PGII, ERG#138		
		LITHIUM Ion BATTERY RECYCLING - DOT 173.185(d)	UN3480, Lithium Batteries, 9, PGII, ERG#138		
		WASTE OIL RECYCLING	Special Waste Liquid	1	GAL
		WASTE GLYCOL RECYCLING	Special Waste Liquid		
		WASTE AEROSOLS	UN1950,Aerosols,Flammable,2.1,ERG#126		
71	Gallons	WASTE LATEX PAINT	Special Waste Liquid	71	GAL
		LOW RADIATION CONTAINING SMOKE DETECTORS	Special Waste Solid, Nuclear Regulatory Law 10 CFR 32.37		
		FIRE EXTINGUISHER(S)	Special Waste Solid		
		METALS RECYCLING	Special Waste Solid		
		MISCELLANEOUS RECYCLING 3 Microwaves			
		MISCELLANEOUS RECYCLING 6 Lrg Fridges		6	ea.

Generator Certification: **This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transpotation.**

Unpaid invoices will be assigned to a licensed Collection Agency and subject to Collection Agency Fee's, Attroney's Fee's, Court Costs and Interest.

Signature: _____ Title: Operator Print Name: Jesus Cusado Date: 11-6-18

Transporter 1 Name: Jesus Cosado
Phone Number: 720-245-1685
Signature _____ Date 11-6

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 11/6/18

6. Weight Tickets

6a. Daily Load Trackers and Associated Truck Tickets

JKS INDUSTRIES
Environmental Abatement Services

Daily Load Tracker

Date: 11-19-18 Project: AP-185 Prepared By: Jesus Casad

	Arrival Time		Departure Time		Load #	Truck #	Material Code	Description	Tons/Yards	Dump Site	Dump Site Ticket Number
11-19	8:00	am / pm	8:25	am / pm	1	CH343	trash	DEMO debris	18 yds	Dads	
	8:30	am / pm	8:50	am / pm	2	CH575	trash	DEMO debris	18 yds	Dads	
	8:50	am / pm	9:15	am / pm	3	CH279	trash	DEMO debris	18 yds	Dads	
	10:35	am / pm	11:00	am / pm	4	CH343	trash	DEMO debris	18 yds	Dads	
	11:00	am / pm	11:15	am / pm	5	CH575	trash	DEMO debris	18 yds	Dads	
	11:15	am / pm	11:30	am / pm	6	CH279	trash	DEMO debris	18 yds	Dads	
	1:00	am / pm	1:20	am / pm	7	CH575	Steel	Rockies M			
	1:20	am / pm	145	am / pm	8	CH343	trash	DEMO debris	18 yds	Dads	
	2:10	am / pm	2:25	am / pm	9	CH279	trash	DEMO debris	18 yds	Dads	
	2:40	am / pm	3:10	am / pm	10	CH575	trash	DEMO debris	18 yds	Dads	
11-20	7:00	am / pm	7:20	am / pm	11	CH333	trash	DEMO debris	18 yds	Dads	
	7:20	am / pm	7:40	am / pm	12	CH575	trash	DEMO debris	18 yds	Dads	
	7:40	am / pm	7:55	am / pm	13	CH279	trash	DEMO debris	18 yds	Dads	
	9:55	am / pm	10:20	am / pm	14	CH575	trash	DEMO debris	18 yds	Dads	
	10:25	am / pm	10:45	am / pm	15	CH279	trash	DEMO debris	18 yds	Dads	
		am / pm		am / pm							
		am / pm		am / pm							
		am / pm		am / pm							
		am / pm		am / pm							
		am / pm		am / pm							
		am / pm		am / pm							
		am / pm		am / pm							
		am / pm		am / pm							
		am / pm		am / pm							
		am / pm		am / pm							
		am / pm		am / pm							

Legend:

Materials:
R = Recycle
T = Trash

Description:
Concrete, Asphalt, Asbestos, Lumber, Construction Debris, Trash, Metals,

AP-185

CHACONS
construction & transport

No. 7635

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

BILL TO: JKS Industries III

DISPATCHED BY:

DATE: 11-20-18

TRUCK # 279

TANDEM ☐ TRAILER ☒

MATERIAL Demo

JOB DESCRIPTION:

	LOADS	UNLOADS
JOB#	Ticket #	Dump Site
LOAD AT Fillmore ST / 46TH AV Denver	AP 185	DADS
	AP 185	DADS
UNLOAD AT DADS		
RATE $		
HOURLY ☒ TONMILE ☐		
START TIME 7:00		
STOP TIME 12:30 PM		
TOTAL HOURS 5½ hrs		
	OWNER OF TRUCK: Chacon Const	

DRIVER'S NAME	AUTHORIZED SIGNATURE
MACA	[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.

AP- 180

№ 50344

2920 W. 73rd Ave
Westminster, CO 80030
FAX 303-487-5731
PH 720-357-1448

BILL TO:	S-H-S
DISPATCHED BY:	
DATE 11/20/18	JOB DESCRIPTION: Demo
TRUCK # Ch525	
TANDEM ☐ TRAILER ☐	
MATERIAL Demo	

	LOADS	UNLOADS
JOB#	1	D-A-D-S
LOAD AT 46th & Fillmore	1	DADS
UNLOAD AT DADS		
RATE $		
HOURLY ☐ TONMILE ☐		
START TIME 7:00		
STOP TIME 12:00 PM		
TOTAL HOURS		
5 hrs		
	OWNER OF TRUCK:	

DRIVER'S NAME	AUTHORIZED SIGNATURE
JGC	

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.

Ap 185

CHACONS
construction & transport

№ 50343

2920 W. 73rd Ave
Westminster, CO 80030
FAX 303-487-5731
PH 720-357-1448

BILL TO: S.A.S.		
DISPATCHED BY: Chacons		
DATE 11/19/16	JOB DESCRIPTION: Demo	
TRUCK # 105-75		
TANDEM ☐ TRAILER ☒		
MATERIAL Demo		
	LOADS	UNLOADS
JOB#	1	D.A.S
LOAD AT 1st + 1 Filmore	1	D.A.S
	1	Rocky Mountain
	1	DA.DS
UNLOAD AT DA.DS Rocky Mountain Rec.		
RATE $		
HOURLY ☐ TONMILE ☐		
START TIME 8:00		
STOP TIME 4:15		
TOTAL HOURS		
8.15 hrs		
	OWNER OF TRUCK:	

DRIVER'S NAME	AUTHORIZED SIGNATURE
Jose	[illegible 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.

Ap-185

CHACON'S
construction & transport

No. 8066

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

BILL TO: JHS Const

DISPATCHED BY: Chacons Const

DATE: 11-19-18	JOB DESCRIPTION:	
TRUCK # CH343		
TANDEM ☐ TRAILER ☐		
MATERIAL Dirt		
	LOADS	UNLOADS
JOB#	loads #	
LOAD AT 4542 Fillmore st Denver Co	8:40 dads	Ap-185
	11:00 dads	Ap 185
UNLOAD AT dads Pit		
RATE $		
HOURLY ☐ TONMILE ☐		
START TIME 8:00		
STOP TIME 3:15 PM		
TOTAL HOURS 7.25 hrs		
	OWNER OF TRUCK:	

DRIVER'S NAME	AUTHORIZED SIGNATURE
Tristin Castillo	[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.

AP-185

CHACONS
construction & transport

No. 7633

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

BILL TO: JKS industries inc

DISPATCHED BY:

DATE: 11-19-18

TRUCK # 279

TANDEM ☐ TRAILER ☒

MATERIAL Demo

JOB DESCRIPTION: Central 70 Project

	LOADS	UNLOADS
JOB#	Ticket #	SITE
LOAD AT Fillmore ST 46TH AVE Denver	AP 185	DADS
	AP 185	DADS
	AP 185	DADS
UNLOAD AT DADS		
RATE $		
HOURLY ☒ TONMILE ☐		
START TIME 8:00AM		
STOP TIME 3:30PM		
TOTAL HOURS		
7 1/2 hrs	OWNER OF TRUCK: Chacon Const	

DRIVER'S NAME	AUTHORIZED SIGNATURE
M A 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.

6b. Recycling Weight Tickets

Rocky Mountain Recycling, Inc.
6510 Brighton Blvd.
Phone 303 288-6868
Fax 303 288-0250
Colorado Certified Scale #2

57144
JKS INDUSTRIES
414 14TH STREET
DENVER, CO 80202

November 19, 2018

Ticket# 5123217
Total $ $0.00
Total Lbs 2,840

Weighmaster: JMADERA
Driver:
Tag No:
Notes: 70 & BRIGHTON

Driver: Outside Carriers,
Truck#:

Description: CHACON'S
Container In:
Container Out:

Commercial Ticket - Number: 5123217

Commodity	Gross	Tare	Tare2	Deduct	Net	UM	Price	Total
Iron #2 HMS Unprepared	39,240	36,400			2,840	N	0.0000	.00
	39,240	36,400			2,840			.00
							ATM Fee	.00
							Ticket Total	.00

ACCEPTED BY_____

I DECLARE THAT I AM THE SOLE AND RIGHTFUL OWNER OF THIS MATERIAL, AND/OR HAVE THE AUTHORITY TO SELL IT.

6c. Waste Weight Tickets

WASTE MANAGEMENT

2476934

Denver Arapahoe Disposal
3500 S Gun Club , PO Box 460397
Aurora, CO, 80018
Ph: (720) 876-2620

Original
Ticket# 3268293

Customer Name JKSINDUSTRIESLLC JKS Industri
Ticket Date 11/19/2018
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest
Destination
PO
Profile ()
Generator

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

Volume

	Time	Scale	Operator	Inbound	Gross	2 lb*
In	11/19/2018 07:13:06	MANUAL WT	SLA		Tare	1 lb*
Out	11/19/2018 07:13:06		SLA		Net	1 lb
			* Manual Weight		Tons	

Comments 9 loads on green drop tickets =162 cyds total REPLACEMENT TICKET FOR TICKET #

PLEASE MAKE SURE YOUR TICKET IS CORRECT BEFORE SIGNING.

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1 CDY-CONST DEBRIS - 100		162.00	Yards				

Total Fees
Total Ticket

402WM-N

Date: 11-19-18 Ticket#: AP-185

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS ✓ 25 YDS HIGHSIDES _____

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

9 loads x 18 = 162 CY
for all → TOTAL loads

DRIVER

Signature: _____

Date: 11-19-18 Ticket#: AP- 185

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS ✓ 25 YDS HIGHSIDES _____

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

DRIVER

Signature: M.AC

Date: 11-19-18 Ticket#: AP-185

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS ✓ 25 YDS HIGHSIDES_____

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

DRIVER:

Signature: Justin Castello

Date: 11-19-18 Ticket#: AP-185

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS ✓ 25 YDS HIGHSIDES_____

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

DRIVER:

Signature: MAC

Date: 11-19-18 Ticket#: AP-185

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS ✓ 25 YDS HIGHSIDES _____

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

DRIVER:

Signature: _____

Date: 11-19-18 Ticket#: AP-185

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS ✓ 25 YDS HIGHSIDES _____

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

DRIVER:

Signature: Justin Cook

Date: 11-19-18 Ticket#: AP-185

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS ✓ 25 YDS HIGHSIDES_____

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

DRIVER:

Signature: [signature]

Date: 11-19-18 Ticket#: AP-185

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS ✓ 25 YDS HIGHSIDES_____

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

DRIVER:

Signature: [signature]

Date: 11-19-18 Ticket#: AP-185

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS ✓ 25 YDS HIGHSIDES_____

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

DRIVER:

Signature:

WASTE MANAGEMENT

2476935

Denver Arapahoe Disposal
3500 S Gun Club , PO Box 460397
Aurora, CO, 80018
Ph: (720) 876-2620

Original
Ticket# 3268294

Customer Name JKSINDUSTRIESLLC JKS Industri
Ticket Date 11/21/2018
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest
Destination
PO
Profile ()
Generator

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

Volume

	Time	Scale	Operator	Inbound	Gross
In	11/21/2018 06:33:07	MANUAL WT	SLA		Tare
Out	11/21/2018 06:33:07		SLA		Net
					Tons

Comments 5 loads on green drop tickets = 90cyds total for all loads from 11/20/18 centra

PLEASE MAKE SURE YOUR TICKET IS CORRECT BEFORE SIGNING.

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	CDY-CONST DEBRIS - 100		90.00	Yards				

Total Fees
Total Ticket

402WM-N

Date: 11-20-18 Ticket#: Ap 185

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS ✓ 25 YDS HIGHSIDES_____

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

DRIVER:

Signature: _____ 5 loads x 18 = 90 cyds

Date: 11-20-18 Ticket#: Ap 185

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

✓

CDY 18 YDS_____ 25 YDS HIGHSIDES_____

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

DRIVER:

Signature: _____

Date: 11-20-18 Ticket#: AP-185

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS ✓ 25 YDS HIGHSIDES_____

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

DRIVER

Signature: MAC

Date: 11-20-18 Ticket#: AP-185

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS ✓ 25 YDS HIGHSIDES_____

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

DRIVER:

Signature:

Date: 11-20-18 Ticket#: AP-185

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS ✓ 25 YDS HIGHSIDES

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

DRIVER
Signature: Justin Castello

7. Dump Diversion Summary

JKS Industries

AP-185: 4542 Fillmore St.

Descriptions		Dump Diversion / Recycle %								
Phase	Activity	Unit of Measure	# of Yards per Container	# of Containers	Total Number of Yards	Pounds Per Yard **	Total Lbs	Recycled Yes/No	Pounds of Recycle or Dump Diversion	% of Recycle or Dump Diversion
Abatement	Trash Rolloff	Cubic Yard	-	-	-	450.00	-			
Abatement	Asbestos Containers	Cubic Yard	-	-	-	500.00	-			
					-		-			
Demolition	Demolition Construction Debris	Cubic Yard	18	14	252.00	1,400.00	352,800			
Demolition	Concrete Debris	Cubic Yard	12	-	-	4,050.00	-	x	-	0.00%
Demolition	Trees	Cubic Yard	-	-	-	500.00	-	x	-	0.00%
Demolition	Steel	Lbs	-	-	-	-	2,840	x	2,840	0.80%
Demolition	Copper	Lbs					-	x	-	0.00%
				14	252.00		355,640		2,840	0.80%

STUDY NOTES

1 The source material used for the Volume to Weight conversions came from Waste Management web site.
2 Conversions ratio's have been modified based on estimated compaction.

8. Daily Logs

JKS Industries

ON-SITE DAILY SIGN- IN SHEET

Date : 11-16-18
Project Name: AP- 185
Project NO:
Supervisor: Jesus Casado

NAME	Initial	EMPLOYER	TIME IN	TIME OUT	TIME IN	TIME OUT	TOTAL
Josus Casado	JC	JKS	6:00 AM	2:00 PM			
Jaimob Ramirez	JR	JKS	6:00AM	200 PM			

TOTAL

JKS Industries

ON-SITE DAILY SIGN- IN SHEET

Date : 11-19-18
Project Name: Ap-185
Project NO:
Supervisor: Jesus Casado

NAME	Initial	EMPLOYER	TIME IN	TIME OUT	TIME IN	TIME OUT	TOTAL
Jesus Casado	JC	JKS	7:00 AM	3:00 PM			
Jamab Ramirez	JR	JKS	7:00 AM	3:00 PM			
Justin Castillo	JC	Chacons	8:00 AM				
Jose Sanchez	JS	Chacons	8:00				
M A Ch	M A	Chacons	8:00				
						TOTAL	

JKS Industries

ON-SITE DAILY SIGN- IN SHEET

Date : 11-20-18
Project Name: AP-185
Project NO:
Supervisor: Jesus Casado

NAME	Initial	EMPLOYER	TIME IN	TIME OUT	TIME IN	TIME OUT	TOTAL
Jesus Casado	JC	JRS	7:00 AM	11:00 AM			
Jamab Ramirez	JR	JRS	7:00 AM	11:00 AM			
Justin Castillo	JC	Chacons	7:00 AM				
Jose Sanchez	JS	Chacons	7:00				
[illegible] Ch	MA	Chacons	7:00 AM				
						TOTAL	