

Close Out Documents

AP-77 – 4615 Fillmore St.

Asbestos Abatement and Structural Demolition

Prepared for:

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

JKS INDUSTRIES

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1. Closeout Letter



December 26, 2018

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

Re: SSCR AP-77 4615 Fillmore St.

Dear Kiewit Infrastructure Co.

This letter is confirm that all the work associated with the asbestos abatement and demolition of the structure located at 4615 Fillmore St. Denver, CO 80216, also referred as parcel AP-77, is complete.

The scope of work included the removal of Regulated Building Materials (RMBs), asbestos abatement, demolition of a 1,255 square foot residential structure, demolition of a 453 square foot detached garage 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 Asbestos Abatement Permit

Colorado Department of Public Health and Environment

Air Pollution Control Division - Indoor Environment Program - Asbestos/IAQ 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

ASBESTOS ABATEMENT PERMIT

This permit is granted subject to Colorado Air Quality Control Commission Regulation No. 8, Part B, adopted December 21, 2007, and effective January 30, 2008, the Colorado Air Pollution Prevention and Control Act (25-7-101 or 25-7-501 et seq., C.R.S.) and the following provisions. It is only for the purpose of allowing asbestos abatement.

ADDITIONAL PERMIT PROVISIONS:

By performing work under this permit the abatement contractor agrees that the Division may revoke or suspend this permit should the Division find that the contractor:

- has violated or has aided and abetted in the violation of 25-7-101 or 25-7-501 et seq., C.R.S. or Regulation No. 8, Part B, or an order of the Division or Commission,
- has failed to meet any permit and notification requirement or failed to correct any violations cited by the Division during any inspection within a reasonable period of time, as may be determined by the Division,
- has used misrepresentation or fraud in obtaining this permit, or,
- has committed any act or omission which does not meet generally accepted standards of the practice of asbestos abatement.

As a contractor, you may be subject to other 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.

THE ORIGINAL PERMIT 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 asbestos abatement permit is valid beginning 10/8/2018 through 11:59 PM on 11/6/2018. The actual scheduled work dates are from 10/8/2018 through 10/26/2018.

Approval issued on: 10/1/2018

Notice Number: 18DE6500A

Variance: None Comments: None

Record number: 142027

For the location specified below:

AP-77 residential Bedrooms, kitchen closet, & living room 4615 Filmore St. Denver **Denver County**

This permit has been issued to:

Fee paid: \$400.00 Check number: 5465

Project Supervisor: George W. Thomas Cerification No.: 17192

Project AMS:

Logan Greenfield

Cerification No.: 20715

Project Manager:

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

Issued by: TS

Frevor Strosvider

ASBESTOS ABATEMENT NOTIFICATION and PERMIT APPLICATION FORM

FEE MUST ACCOMPANY THIS FORM. INCOMPLETE APPLICATIONS WILL BE RETURNED.

OF COLOR	
Colorado Department of Public Health	

and Environment

Single Family Residential Dwelling (SFRD) > 50 LF or 32 SF or a 55-gal. drum, but ≤ 260 LF or 160 SF or a 55-gallon drum			Public and Commercial Building, School, and Single-F Residential Dwelling: > 260 LF or 160 SF or a 55-gallon drum				
[code 200] [code 205] [code 210] [code 230] [code 230] [code 290] [code 265] [cod	\$0 \$60 \$60 \$180 \$300	Courtesy Notice Non-Public Access Notice (Opt Out) Notice 30-Day Permit 90-Day Permit 365-Day Permit	[code 100]	\$0 \$80 \$80 \$400 \$800	Courtesy Notice Non-Public Access Notice Notice 30-Day P&C/SFRD Permit 90-Day P&C/SFRD Permit 365-Day P&C/SFRD Permit		
[code 180/280]	\$55	Notice or Permit Transfer	[code 177] 🗌		Phaseof Multiple Phase Permit #		

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

Abatement Contractor			Abaten	nent Site		Building Owner				
Company Name	ndustries		Building Name	AP-77 I	Residential		Owner Name CDOT			
Street Address	n Blvd. Unit 9A		Specify location in the buil Bedroor	ding where wor ms, Kitchen	k will take place (e.g. f Closet and Living l	floor, room, wing, etc.) Room	Contact	hony DaVito		
City	State	Zip code 80214	Street Address	4615 Fil	more Street		Street Address	00 S. Holly St.		
Telephone #	Fax # (303) 238-045	52	City	Coun	ty Denver	Zip code 80216	City Denver	1	State CO	Zip code 80222
(303) 238-0207 Project Supervisor George Thomas		. Cert # 17192	Building Contact Doug M	essier	Cell Pho (817) 3	one # 320-6749	Telephone # (303) 512-5900	Fax# ()		
Project	Personnel		L. F	Project I	nformation		Dis	posal Site	9	
CO Project Mgr. Name	Required		Start Date 10/08/201	8 /	End Date	26/2018	Landfill Name Denver	Arapahoe Dispo	osall	
Cell Phone #	CO Project Design	gner#	Start Time 6:30am AM	1	End Time	AM 5:00 PM	Street Address 3500 So	outh Gun Club R	Road	
CO Project Designer Name			Check the day(s) of	operation: S	u M Tu W Th	F Sa	City Aurora		State	Zip code 80018
Cell Phone #	CO Project Desi	gner#	Emergency?	Type	of ACM: TSI, Tex	dure, VAT, etc.		HE Use Or		
Consulting Firm Name All Phase Consulting,		gistration # 15979	Linear Feet / Type		Feet / Type 55	5 gal. Drums	Postmark or Delivery date	120/18	Approv	ed by: Swg
A.M.S. Name	Greenfield	10070	-1		F of Textured drywall		Form of Payment & # C/L S	5465 \$460	PM req	Y N W
Cell Phone # (719) 545-0375	CO A.M.S. Cert 20715	#					Permit #_ 1817 (05170A	Record #	Date Is	

Please describe below the work practices and procedures to be employed in conducting the abatement of asbestos. <u>BE SPECIFIC</u>. Indicate type(s) of ACBM to be abated (e.g. VAT, ceiling tile, TSI, etc.). Use another page if necessary.

This project will consist in removal and disposal of 2,382 SF of textured drywall with in a full containment. The friable materials will be removed using small hand tools (carpenters hammer, cats claw, crow bar and chisels) the material will be kept wet (1500 psi airless sprayer with amended water) The full containment will employ negative air pressure greater than --0.02cw, a fully functional decon, 1'x1' view port and two chamber waste loadout. All work will be in accordance with Colorado Regulation #8 Part B. The full containment will be inspected and cleared by a State Certified AMS.



A ... 11/20/2008



3. 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 postdemolition 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 11/14/2018. The actual scheduled work dates are from 11/14/2018 through 12/14/2018.

Approval issued on: 11/15/2018

Record number: 143416 Notice Number: 18DE7774D

For the location specified below:

AP-77 Garage

4615 Fillmore St.

Denver

Denver County

Fee Paid: \$55.00

Check number: 5652

Asbestos Building Inspector:

Richard L. Ralston Cerification No.: 4261

Inspection Date:

11/08/2018

This notice has been issued to:

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



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

					15 3 F N		
	Company Name:	To decide			Building Name:	D 77 Com	
		Industries		AP-77 Garage Square footage of footprint of facility or portion of facility to be demolished 453 Street:			
	Street: 747 Sher	idan Blvd. #9A			Square lootage of lootprint of fac		be demonstred
0	City:	State:	Zip Code:		Street:	433	
ä	Lakewood	CO	80214	Site	The Control of the Co	15 Fillmore St.	
Tt.	Telephone #	Fax#		S	City:	County:	Zip Code:
ō	(303) 238-0207	(303) 238-0	452	- C	Denver	Denver	80216
u	Project Manager:	Cell Phone #	440	Ē	Proposed-Start-Date	Proposed Comple	
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		Jeffre	y Knight				
					†Burning requires additional outh	perization Diagno call (2)	12) 602 3100 and ack
	Denver Arap	ahoe Disposal Si	ite				03) 692-3100 and ask
	General Abatement Contractor (G	AC)			Owner's Name:		
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al	CDPHE Asbestos Permit #	Total Quantity of	Asbestos Removed	>	Street:		
Asbestos Removal Contracto		4.60.0000000			20	00 S Holly St.	
be m	Date Removal Completed	Telephone #		i.	City:	State:	Zip Code:
As Re				P	Denver	CO	80222
	Type(s) of Asbestos-Containing N	Material Removed:		Ba	Contact's Name:		
					Anthony DaVito	(303) 5	12-5900
Certified Asbestos Inspector Certification	an Asbestos Building In in the Demolition Site by a NVLAP-a facility.* I also certify the asbestos-containing may of ACM remaining, below Winyl asbestos floor Spray-applied tar consignature. (In Blue Ink) Date of Final Inspection Containing may be supported by the second signature. (In Blue Ink)	aspector. I also lock above, sar accredited laborate I have informaterial allowed tow: (check apportile (VAT) \begin{array}{ c c c c c c c c c c c c c c c c c c c	certify that I hampled all suspendently, and have need the owner/o stay in the faropriate box(e) AT mastic [AT mastic Glazing	exe the ect mare detect mare detect mare detect mare detection mar	proughly inspected the facerials, had all samples a rmined that no Regulate or of the facility or the denust remain non-friable dust remain non-friable dust impregnated roofing ther, specify: I Name: Lichard Resolution: (719) 545-03	cility to be demolisinallyzed for the produced for the produced ACM exists anyone molition contractor uring demolition. g Asphaltic pip	shed, as listed esence of where in the r that any Specify type(s) e coatings
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DATE 11/13/18 COPHE SEE

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

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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.

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

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This demolition approval notice is valid beginning 11/14/2018. The actual scheduled work dates are from 11/14/2018 through 12/14/2018.

Approval issued on: 11/15/2018

Record number: 143415 Fee Paid: \$60.00

Notice Number: 18DE7773D Check number: 5

Notice Number: 18DE7773D Check number: 5652

For the location specified below:

AP-77 Residential

Asbestos Building Inspector:

4615 Fillmore St.

Richard L. Ralston

Cerification No.: 4261

Denver County Inspection Date: 11/08/2018

This notice has been issued to:

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

Issued by



of Public Health

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)

and Environment _ 2 20 See: \$50 + \$5 per 1000 ft2 of area to be demolished = \$_

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

Rev. 01/30/08

	OCD	(occ ma	ruction #1 on rev	CIOC GI					
	Company Name:				Building Name:	town of the sa			
		dustries			AP-77 Residential Square footage of footprint of facility or portion of facility to be demolished				
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racto	City: Lakewood	State: CO	Zip Code: 80214	Site	Street: 461:	5 Fillmore St.			
ntı	Telephone #	Fax #	450	S	City: Denver	County: Denver	Zip Code: 80216		
ŏ	(303) 238-0207 Project Manager:	(303) 238-0 Cell Phone #	432	tion	Proposed Start-Date	Proposed Comple			
lon	Jeffrey Knight	(720) 402-4		emolition	(11/14/18)	12/14/	18		
Demolition Contractor	I certify that the Certified Asbestos B about any remaining asbestos-conta demolished.	uilding Inspector h ining materials in the	as informed me ne facility to be	Dem	Method/Means of Demolition:	Nosion D Moving D C	When enecify:		
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	Landfill Receiving Building Debris: Denver Arapal	oe Disposal S	ite		[†] Burning requires additional autho to speak to the Open Burning Perr	rization – Please call (30 nit Coordinator	03) 692-3100 and ask		
	General Abatement Contractor (GAC JKS In	c) idustries		ner	Owner's Name:	CDOT			
Asbestos Removal Contractor	CDPHE Asbestos Permit # Total Quantity of Asbestos Removed 2382 SF			Owner	Street: 2000 S Holly St.				
sbe	Date Removal Completed	Telephone #		Building	City:	State:	Zip Code:		
S R S	11/2/2018	(303) 238-02	207	i i	Denver	CO	80222		
		SF TDW			Contact's Name: Anthony DaVito Telephone # (303) 512-5900 HERA accreditation and state of Colorado certification as				
Certified Asbestos Inspector Certification	an Asbestos Building Inspin the Demolition Site bloasbestos by a NVLAP-actacility.* I also certify that asbestos-containing mate of ACM remaining, below Vinyl asbestos floor ti Spray-applied tar coasignature: (In Blue Ink)	ck above, sar credited labo I have informatical allowed to check app (check app	mpled all susperatory, and havened the owner/o stay in the faropriate box(e	ect mate detection of the comperation of the comper	terials, had all samples an rmined that no Regulated or of the facility or the der nust remain non-friable du phalt impregnated roofing	alyzed for the property ACM exists any molition contractoring demolition.	esence of where in the or that any Specify type(s)		
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Building Owner or Contractor	I verify that all refrigerants from 15 (for information on CFC requisions) of in accordance with CHECK THE APPROPRIATE BOX	irements call 69 6 CCR 1007-1 s	2-3100), I further v	erify tha	it all luminous exit signs (contain	ing radioactive mater	rial) have been		
Ow Con	Building Owner Signature:	Contractor		Other Print N	lame:	Date: 11/9/18			
	12	,		V	EFFACY HNIST	f			
	i -	I	HIS BOX IS FOR	CDPHE	USE ONLY:				
Postmark o	or Hand Delivery Date: (1/9)	18	Approved By	: \$	ED Cod	e: X initial-310	transfer-380		
Form of Pa	ayment & #: check # 50	52-50	Permit#:	177	73D Record #43+1	Spate 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.

DATE 11/3/8 COPHE SEK



4. JKS Asbestos Certifications



Colorado Department of Public Health and Environment

General Abatement Contractor

This certifies that

JKS Industries, LLC

GAC No.: 18531

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

Issued: July 18, 2018

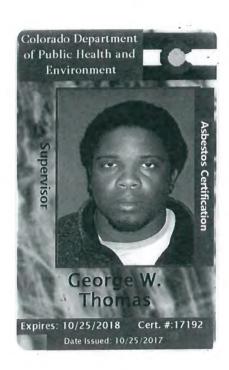
Expires: July 18, 2019

Authorized APCD Representative

SEAL



5. JKS Workers Asbestos Certifications



INTERNATIONAL.



Environmental and Safety Training LLC 720 Billings Street Unit F Aurora, Colorado 80011 Phone # (720) 859-3134 Fax # (720) 859-0660

CERTIFIES THAT

GEORGE W. THOMAS

Has successfully completed

The EPA- APPROVED AHERA ANNUAL ASBESTOS REFRESHER

COURSE for CONTRACTOR/SUPERVISOR

And passed the requirements examination in that discipline

This course is EPA-Approved under Section 206 of the **Toxic Substance Control Act (TSCA)**

Course Date 10/06/2018

No. Hours

Certificate No.

CO100618-04ASR

Expires

10/06/2019

This course meets the requirements of

AQCC Reg. #8 Part B



Training Director

Midtown Occupational Health Services 2490 W. 26th Ave. Ste. 300-A Denver, CO 80211 Phone: (303) 831-9393 Fax: (303) 831-6335

OSHA Asbestos Certification Applicants Name The above individual was seen by me on - 06 - 20 18 in accordance to 29 CFR 1926.1101(Asbestos Certification) and 29CFR1910.134 (Respirator Certification). The following was preformed: Completion and review of the standardized medical questionnaire and work history with special emphasis directed to the pulmonary, cardiovascular, and 1. gastrointestinal systems per Appendix D in 1926.1101 Reviewed the employer's description of this individual's duties as they relate 2. to asbestos exposure, the anticipated exposure level, and the personal protective and respiratory equipment to be utilized by this individual. Review of information from previous medical examinations, if available. 3. A physical examination with emphasis upon the pulmonary, cardiovascular, 4. and gastrointestinal systems, including a pulmonary function test of forced vital capacity (FVC) and forced expiratory volume at one second (FEV-1). Determined that a chest roentgenogram was was not I required as part of 5. this examination. (note: according to CFR 1926.1101 (M)(2)(ii)(C) it is at the discretion of the physician whether or not a chest X-ray is required) Reviewed OSHA's Medical Evaluation Questionnaire in Appendix C Part A 6. Section 2 in accordance with 29CFR 1910.134 and have determined that this individual may may not use a respiratory device while performing his/her required duties. The employee has been instructed to report any difficulties in using the 7. respirators or any change of physical status to their supervisor or physician. In accordance with OSHA requirements, I have fully explained the results of 8. the medical examination and laboratory tests to the above named patient. In accordance with OSHA I have informed this individual of the health risks 9. involved with smoking, of the synergistic relationship between cigarette smoking and

asbestos exposure in producing lung cancer, and that cessation of smoking will

reduce the risk of lung cancer.

Midtown Occupational Health Services 2490 W. 26th Ave. Ste. 300-A Denver, CO 80211 Phone: (303) 831-9393 Fax: (303) 831-6335 OSHA Asbestos Certification

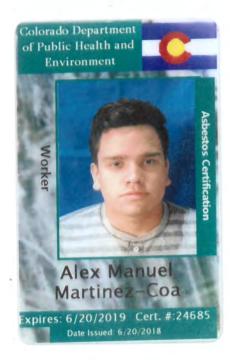
risk of material health impairment from expos	which would place this employee at an increased fire to asbestos, and there are no recommended e of personal protective equipment or respirator.
There is a detected medical condition(s) See comments below for limitations:	which places this employee at an increased risk.
Comments/ Limitations	
Balse Sym 114 C Examining Provider	02/06/18

Richard Kraus M.S., PA.-C Midtown Occupational Health Services, P.C. 2490 W. 26th Ave., Bldg. A, Suite 300 Denver, CO 80211 303-831-9393



Respirator Fit Test

I, GEORGE THOMAS acknowledge that I have been fit tested and trained for the proper use and
care of my respirator. I have read and understand JKS's written respiratory program manual.
Date of Fit Test: 5 7 18 Fit Test Conductor: Ruben Domingo
Respirator Information
Manufacturer: North
2. Model: 7700M
3. Size (Circle one): SMALL MEDIUM LARGE
4. Approval Number: TC-84A-0592
Irritant smoke used (Circle one)? YES NO
Please initial the following as each test is completed:
Breathe normally through the respirator
breathe normally through the respirator
Breathe deeply through the respirator. Be certain that your breaths are deep and regular
Turn your head from one side to the other to the fullest extent about every second without bumping the respirator of your shoulders. Ensure that your movement is complete. Inhale on each side.
Nod your head up and down to the fullest extent about every second without bumping the respirator on your chest. Ensure that your movement is complete and can be completed quickly. Inhale when you are facing up.
Do several jumping jacks to ensure that the respirator does not come loose from your face.
Move your mouth to its fullest extent; for example, yawn, move your jaw around, etc. Ensure that you can move you mouth as necessary without compromising the fit of the respirator.
Read the Rainbow Passage
When the sunlight strikes raindrops in the air, they act like a prism and form a rainbow. A rainbow is a division of whi light into many beautiful colors. These take the shape of a long round arch with its path high above and its two ends apparently beyond the horizon. There is, according to legend, a boiling pot of gold at one end. People look, but no or ever finds it. When a man looks for something beyond his reach his friends say he is looking for the pot of gold at the end of the rainbow.
Employee Signature: 5.7.18
Fit Test Conductor Signature: Date: 5/01/18



INTERNATIONAL



Environmental and Safety Training L.LC. 720 Billings Street Unit F Aurora, Colorado 80011 Phone # (720) 859-3134 Fax # (720) 859-0660

CERTIFIES THAT

ALEX MANUEL MARTINEZ COA

Has successfully completed

The **EPA**– APPROVED **AHERA** ASBESTOS COURSE for **WORKER**And passed the requirements examination in that discipline

This course is **EPA-Approved** under Section 206 of the **Toxic Substance Control Act (TSCA)**

Course Date

06/11/2018 - 06/14/2018

Exam Date

06/14/2018

No. Hours

32

Certificate No

CO061418-01AWI

Expires

06/14/2019

[warmen]

This course meets the

AQCC Reg. #8 Part B

requirements of

Training Director

Invalid without raised seal

Midtown Occupational Health Services 2420 W. 26th Ave. Ste. 200-D Denver, CO 80211 Phone: (303) 831-9393 Fax: (303) 831-6335

OSHA Asbestos Certification

Applicants	Name Alex Martinez
The above 1926.1101 was prefor	individual was seen by me or 6 - 8 in accordance to 29 CFR (Asbestos Certification) and 29 CFR 1910.134 (Respirator Certification). The following med:
1.	Completion and review of the standardized medical questionnaire and work history with special emphasis directed to the pulmonary, cardio ascular, and gastrointestinal systems per Appendix D in 1926.1101
2.	Reviewed the employer's description of this individual's duties as they relate to asbestos exposure, the anticipated exposure level, and the personal protective and respiratory equipment to be utilized by this individual.
3.	Review of information from previous fredical examinations, if available.
4,	A physical examination with temphasis upon the pulmonary, cardiovascular, and gastrointestinal systems, including a pulmonary function test of forced vital capacity (FVC) and forced expiratory volume at one second (FEV-1).
5.	Determined that a chest roentgenogram was was not required as part of this examination. (note according to CFR 1926.1101 (M)(2)(ii)(C) it is at the discretion of the physician whether or not a chest X-ray is required)
6.	Reviewed OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2 in accordance with 29CFR 1910.134 and have determined that this individual may imay not use a respiratory device while performing his/her required duffes.
7.	The employee has been instructed to report any difficulties in using the nespirators or any change of physical status to their supervisor or physician.
8.	In accordance with OSHA requirements, I have fully explained the results of the medical examination and laboratory tests to the above named patient.
9.	In accordance with OSHA I have informed this individual of the health risks involved with smoking, of the synergistic relationship between cigarette smoking and asbestos exposure in producing lung cancer, and that cessation of smoking will reduce the risk of lung cancer.

Midtown Occupational Health Services 2420 W. 26th Ave. Ste. 200-D Denver, CO 80211 Phone: (303) 831-9393 Fax: (303) 831-6335

OSHA Asbestos Certification

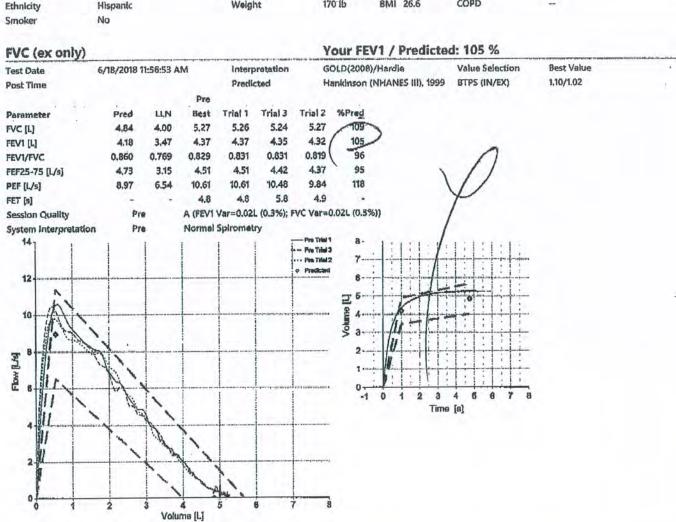
There is no detected medical condition which would place this employee at an increased risk of material health impairment from exposure to asbestos, and there are no recommended, limitations on the employee concerning the use of personal protective equipment or respirator.

There is a detected medical condition(s) which places this employee at an inchested risk. See comments below for limitations: Comments/ Limitations JUN 1 8 2018 Examining Providenacher, M.D. Date J. Raschbacher, M.D. Midtown Occupational Health Services, P.C. 2490 W. 26th Ave., Bldg. A, Suite 300 Denver, CO 80211 303-831-9393

Midtown Occupational Health Services

2490 W 26th Ave Bld A Ste 300, Denver, CO 80219

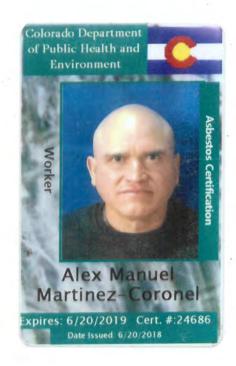
Martinez,	Alex		ID: 790	00 /	Age: 18	3 (11/23/1999	9)	
Gender	Male	Height	67 In			Asthma	No	
Ethnicity	Hispanic	Weight	170 lb	BMI	26.6	COPD		
Committee	No							



JKS INDUSTRIES

Respirator Fit Test

care of my respirator. I have read and understa	nd JKS's written respirat	ory program	manual.
Date of Fit Test: 6/21/2018	Fit Test Conductor:	Ruben	Domingo
Respirator Information 1. Manufacturer: North 2. Model: 7700M 3. Size (Circle one): SMALL 4. Approval Number: TC-84A-0592	EDIUM LARGE		
Irritant smoke used (Circle one)?	s) NO		
Please initial the following as each test is comp	leted:		
Breathe normally through the respirator			
Breathe deeply through the respirator. Be continued from one side to the other to	o the fullest extent about	every second	
your shoulders. Ensure that your movement			
Nod your head up and down to the fullest extensure that your movement is complete and	xtent about every second of the can be completed quickly	without bump y. Inhale wher	oing the respirator on your chest. In you are facing up.
Do several jumping jacks to ensure that the	respirator does not come	loose from yo	our face.
Move your mouth to its fullest extent; for exmouth as necessary without compromising	xample, yawn, move your the fit of the respirator.	jaw around, e	etc. Ensure that you can move your
Read the Rainbow Passage			
When the sunlight strikes raindrops in the a light into many beautiful colors. These take apparently beyond the horizon. There is, ac ever finds it. When a man looks for someth end of the rainbow.	the shape of a long round cording to legend, a boiling	arch with its g pot of gold iends say he i	path high above and its two ends at one end. People look, but no one
Employee Signature:		Date:	1 1 2018
Fit Test Conductor Signature:		Date:	6/21/2018



INTERNATIONAL



Environmental and Safety Training L.LC. 720 Billings Street Unit F Aurora, Colorado 80011 Phone # (720) 859-3134 Fax # (720) 859-0660

CERTIFIES THAT

ALEX MANUEL MARTINEZ CORONEL

Has successfully completed
The **EPA**– APPROVED **AHERA** ASBESTOS COURSE for **WORKER**

And passed the requirements examination in that discipline

This course is **EPA-Approved** under Section 206 of the **Toxic Substance Control Act (TSCA)**

Course Date

06/11/2018 - 06/14/2018

Exam Date

06/14/2018

No. Hours

32

Certificate No

CO061418-02AWI

Expires

06/14/2019

Training Director

This course meets the

AQCC Reg. #8 Part B

requirements of

Invalid without raised seal

Midtown Occupational Health Services 2420 W. 26th Ave. Ste. 200-D Denver, CO 80211 Phone: (303) 831-9393 Fax: (303) 831-6335

OSHA Asbestos Certification

1926.11 was pre	01(Asbestos Certification) and 29CFR1910.134 (Respirator Certification). The following formed:
1.	Completion and review of the standardized medical questionnairs and work history with special emphasis directed to the pulmonary, cardio ascular, and gastrointestinal systems per Appendix D in 1926.1101
2.	Reviewed the employer's description of this individual's duties as they relate to asbestos exposure, the anticipated exposure level; and the personal protective and respiratory equipment to be utilized by this individual.
3.	Review of information from previous medical examinations, if available.
4.	A physical examination with emphasis upon the pulmonary, cardiovascular, and gastrointestinal systems, including a pulmonary function test of forced vital capacity (FVC) and forced expiratory volume at one second (FEV-1).
5.	Determined that a chest roentgenogram was was not required as part of this examination. (note according to CFR 1926.1101 (M)(2)(ii)(C) it is at the discretion of the physician whether or not a chest X-ray is required)
6.	Reviewed OSEA's Medical Evaluation Questionnaire in Appendix C Part A Section 2 in accordance with 29CFR 1910.134 and have determined that this individual may may not use a respiratory device while performing his/her required duties.
7,	The employee has been instructed to report any difficulties in using the respirators or any change of physical status to their supervisor or physician.
8.	the medical examination and laboratory tests to the above named patient.
9.	In accordance with OSHA I have informed this individual of the health risks involved with smoking, of the synergistic relationship between cigarette smoking and asbestos exposure in producing lung cancer, and that cessation of smoking will reduce the risk of lung cancer.

Midtown Occupational Health Services 2420 W. 26th Ave. Ste. 200-D Denver, CO 80211 Phone: (303) 831-9393 Fax: (303) 831-6335

OSHA Asbestos Certification

There is no detected medical condition which would place this employee at an increased risk of material health impairment from exposure to asbestos, and there are no recommended, limitations on the employee concerning the use of personal protective equipment or respirator.

There is a detected medical condition(s) which places this employee at an increased risk. See comments below for limitations:

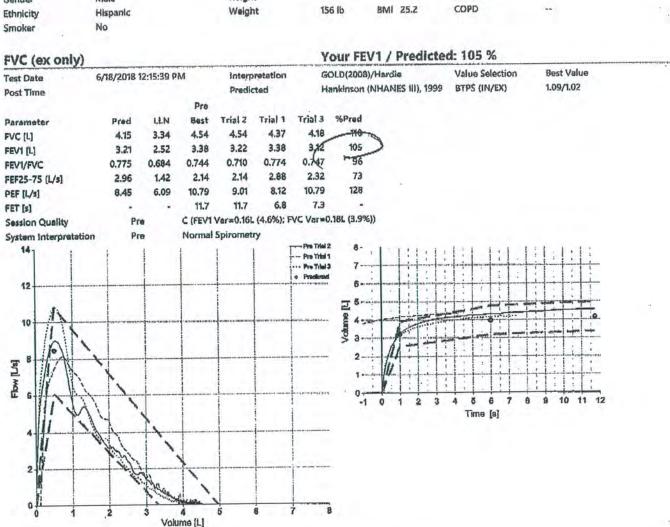
omments/ Limitations		618		
	- MD			
J. Raschbac	her, M.B.	10	Date	
J. 1195				
		a 1		

J. Naschbacher, M.D. Midtown Occupational Health Services, P.C. 2490 W. 26th Ave., Bldg. A. Suite 300 Denver, CO 80211

Midtown Occupational Health Services

2490 W 26th Ave Bld A Ste 300, Denver, CO 80219

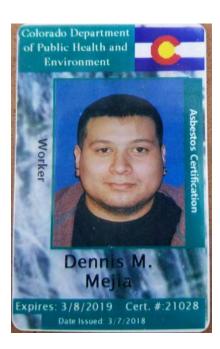
Alex, Martinez			ID: 0506 Age: 57 (10/10/1960)					
Gender	Male	Height	66 ln			Asthma	Na	
Ethnicity	Hispanic	Weight	156 16	BMI	25.2	COPD	144	
Smoker	No							





Respirator Fit Test

I, Alex Martinez Coronell, acknowledge that I have	
care of my respirator. I have read and understand JKS's writ	ten respiratory program manual.
Date of Fit Test: (0 21 2019 Fit Test	Conductor: Ruben Ooming
Respirator Information	
Manufacturer: North	
2. Model: 7700M	
 Size (Circle one): SMALL Approval Number: TC-84A-0592 	LARGE
Irritant smoke used (Circle one)?	NO
Please initial the following as each test is completed:	
Breathe normally through the respirator	
Breathe deeply through the respirator. Be certain that you	ur breaths are deep and regular
Turn your head from one side to the other to the fullest e your shoulders. Ensure that your movement is complete.	extent about every second without bumping the respirator on Inhale on each side.
Nod your head up and down to the fullest extent about extension that your movement is complete and can be complete.	very second without bumping the respirator on your chest. pleted quickly. Inhale when you are facing up.
Do several jumping jacks to ensure that the respirator do	es not come loose from your face.
Move your mouth to its fullest extent; for example, yawn mouth as necessary without compromising the fit of the research to th	, move your jaw around, etc. Ensure that you can move your respirator.
Read the Rainbow Passage	
light into many beautiful colors. These take the shape of apparently beyond the horizon. There is, according to leg	se a prism and form a rainbow. A rainbow is a division of white a long round arch with its path high above and its two ends gend, a boiling pot of gold at one end. People look, but no one is reach his friends say he is looking for the pot of gold at the
end of the rainbow.	
Employee Signature:	Date: 6/21/18
Fit Test Conductor Signature:	Date: 6/21/2018



NTERNATIONAL



Environmental and Safety Training L.LC. 720 Billings Street Unit F Aurora, Colorado 80011 Phone # (720) 859-3134 Fax # (720) 859-0660

CERTIFIES THAT

DENNIS MICHAEL MEJIA

Has successfully completed

The EPA- APPROVED AHERA ANNUAL ASBESTOS REFRESHER

COURSE for WORKER

And passed the requirements examination in that discipline

This course is EPA-Approved under Section 206 of the **Toxic Substance Control Act (TSCA)**

Course Date

02/17/2018

No. Hours

Certificate No. CO021718-02AWR

Expires

02/17/2019

This course meets the requirements of AQCC Reg. #8



Invalid without raised seal

Training Director

Midtown Occupational Health Services 2420 W. 26th Ave. Ste. 200-D Denver, CO 80211 Phone: (303) 831-9393 Fax: (303) 831-6335

OSHA Asbestos Certification

Applican	ts Name Dennis Mejia						
The abov 1926.110 was prefe	e individual was seen by me on 2/1/13 in accordance to 29 CFR 1/2 (Asbestos Certification) and 29 CFR 1910.134 (Respirator Certification). The following ormed:						
1.	Completion and review of the standardized medical questionnaire and work history with special emphasis directed to the pulmonary, cardiovascular, and gastrointestinal systems per Appendix D in 1926.1101						
2.	Reviewed the employer's description of this individual's duties as they relate to asbestos exposure, the anticipated exposure level and the personal protective and respiratory equipment to be utilized by this individual.						
3.	Review of information from previous medical examinations, if available.						
4.	A physical examination with emphasis upon the pulmonary, cardiovascular, and gastrointestinal systems, including a pulmonary function test of forced vital capacity (FVC) and forced expiratory volume at one second (FEV-1).						
5.	Determined that a chest roentgenogram was was not \square required as part of this examination. (note-according to CFR 1926.1101 (M)(2)(ii)(C) it is at the discretion of the physician whether or not a chest X-ray is required)						
6.	Reviewed OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2 in accordance with 29CFR 1910.134 and have determined that this individual may imay not use a respiratory device while performing his/her required duffes.						
7.	The employee has been instructed to report any difficulties in using the respirators or any change of physical status to their supervisor or physician.						
8.	In accordance with OSHA requirements, I have fully explained the results of the medical examination and laboratory tests to the above named patient.						
9.	In accordance with OSHA I have informed this individual of the health risks involved with smoking, of the synergistic relationship between cigarette smoking and asbestos exposure in producing lung cancer, and that cessation of smoking will reduce the risk of lung cancer.						

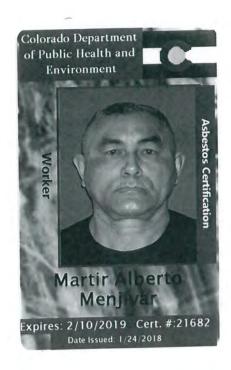
Midtown Occupational Health Services 2420 W. 26th Ave. Ste. 200-D Denver, CO 80211 Phone: (303) 831-9393 Fax: (303) 831-6335

OSH	A Asbestos Certification
risk of material health impairment fro	ondition which would place this employee at an increased om exposure to asbestos, and there are no recommended ing the use of personal protective equipment or respirator.
There is a detected medical cor See comments below for limitations:	ndition(s) which places this employee at an incheased risk.
Comments/ Limitations (2 2 3	200 - La 2 - Co 1/2 2002
באסיוענטה פנן	The of the state o
100000000000000000000000000000000000000	
Examining Provider	3/2/18
CANADAMINETED TITLE TATAL	Date

Matthew Edwards, PA.-C Midtown Occupational Health Services, P.C. 2490 W. 26th Ave., Bldg. A, Suite 300 Denver, CO 80211 303-831-9393

Respirator Fit Test

I, Dennis Mejro , acknowledge that I have been fit tested and trained for the proper use and
care of my respirator. I have read and understand JKS's written respiratory program manual.
Date of Fit Test: 05-10-2018 Fit Test Conductor: Kuben
Respirator Information
1. Manufacturer: North
2. Model: 7700M
3. Size (Circle one): SMALL MEDIUM LARGE
4. Approval Number: TC-84A-0592
Irritant smoke used (Circle one)? YES NO
Please initial the following as each test is completed:
Breathe normally through the respirator
Breathe deeply through the respirator. Be certain that your breaths are deep and regular
Turn your head from one side to the other to the fullest extent about every second without bumping the respirator or your shoulders. Ensure that your movement is complete. Inhale on each side.
Nod your head up and down to the fullest extent about every second without bumping the respirator on your chest. Ensure that your movement is complete and can be completed quickly. Inhale when you are facing up.
Do several jumping jacks to ensure that the respirator does not come loose from your face.
Move your mouth to its fullest extent; for example, yawn, move your jaw around, etc. Ensure that you can move your mouth as necessary without compromising the fit of the respirator.
Read the Rainbow Passage
When the sunlight strikes raindrops in the air, they act like a prism and form a rainbow. A rainbow is a division of whit light into many beautiful colors. These take the shape of a long round arch with its path high above and its two ends apparently beyond the horizon. There is, according to legend, a boiling pot of gold at one end. People look, but no on ever finds it. When a man looks for something beyond his reach his friends say he is looking for the pot of gold at the end of the rainbow.
Employee Signature: Date: 05-10-2018
Fit Test Conductor Signature: Julie Domps Date: \$ 10/2018



NTERNATIONAL



Environmental and Safety Training L.LC. 720 Billings Street Unit F Aurora, Colorado 80011 Phone # (720) 859-3134 Fax # (720) 859-0660

CERTIFIES THAT

MARTIR ALBERTO MENJIVAR

Has successfully completed

The EPA- APPROVED AHERA ANNUAL ASBESTOS REFRESHER

COURSE for WORKER

And passed the requirements examination in that discipline

This course is **EPA-Approved** under Section 206 of the **Toxic Substance Control Act (TSCA)**

Course Date 01/13/2018

No. Hours

Certificate No. CO011318-16AWR

01/13/2019 **Expires**

This course meets the requirements of AQCC Reg. #8



Training Director

(FAX)303 531 5637

Midtown Occupational Health Services 2490 W. 26th Ave. Ste. 300-A Denver, CO 80211 Phone: (303) 831-9393 Fax: (303) 831-63 Fax: (303) 831-6335 **OSHA** Asbestos Certification

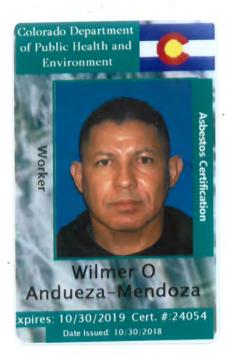
Applican	ts Name Mondivar, Martin
The above 1926.110 was prefer	e individual was seen by me on 1/22/18 in accordance to 29 CFR 1(Asbestos Certification) and 29CPR1910.134 (Respirator Certification). The following ormed:
1.	Completion and review of the standardized medical questionnaire and work history with special emphasis directed to the pulmonary, cardiovascular, and gastrointestinal systems per Appendix D in 1926.1101
2.	Reviewed the employer's description of this individual's duties as they relate to asbestos exposure, the anticipated exposure level, and the personal protective and respiratory equipment to be utilized by this individual.
3.	Review of information from previous medical examinations, if available,
4.	A physical examination with emphasis upon the pulmonary, cardiovascular, and gastrointestinal systems, including a pulmonary function test of forced vital capacity (FVC) and forced expiratory volume at one second (FEV-1).
5.	Determined that a chest roentgenogram was was not required as part of this examination. (note: according to CFR 1926.1101 (M)(2)(II)(C) it is at the discretion of the physician whether or not a chest X-ray is required)
6.	Reviewed OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2 in accordance with 29CFR 1910.134 and have determined that this individual may may not use a respiratory device while performing his/her required duties.
7.	The employee has been instructed to report any difficulties in using the respirators or any change of physical status to their supervisor or physician.
8.	In accordance with OSHA requirements, I have fully explained the results of the medical examination and laboratory tests to the above named patient.
9.	In accordance with OSHA I have informed this individual of the health risks involved with smoking, of the synergistic relationship between cigarette smoking and asbestos exposure in producing lung cancer, and that cessation of smoking will reduce the risk of lung cancer.

Midtown Occupational Health Services 2490 W. 26th Ave. Ste. 300-A Denver, CO 80211 Phone: (303) 831-9393 Fax: (303) 831-6335 OSHA Asbestos Certification

There is no detected medical condition wrisk of material health impairment from exposulimitations on the employee concerning the use	rhich would place this employee at an increased are to asbestos, and there are no recommended of personal protective equipment or respirator.	
There is a detected medical condition(s) which places this employee at an increased risk. See comments below for limitations:		
Comments/ Limitations		
man re	1/09/10	
Examining Provider	Date	

Respirator Fit Test

Date of Fit Test: 05/60/2018	Fit Tes	st Conductor:_	Ruben
Respirator Information			
 Manufacturer: North Model: 7700M 			
3. Size (Circle one): SMALL 4. Approval Number: TC-84A-0592	MEDIUM	LARGE	
Irritant smoke used (Circle one)?	YES	NO	
Please initial the following as each test is	completed:		
MM Breathe normally through the respirat	tor		
Breathe deeply through the respirator	r. Be certain that y	our breaths are	deep and regular
Turn your head from one side to the convergence of			very second without bumping the respirator on side.
Nod your head up and down to the fu Ensure that your movement is comple		the contract of the contract o	ithout bumping the respirator on your chest. Inhale when you are facing up.
Do several jumping jacks to ensure the	at the respirator d	oes not come lo	ose from your face.
Move your mouth to its fullest extent mouth as necessary without compron			w around, etc. Ensure that you can move you
MM Read the Rainbow Passage			
light into many beautiful colors. These apparently beyond the horizon. There ever finds it. When a man looks for so	e take the shape o	f a long round a gend, a boiling p	form a rainbow. A rainbow is a division of white rch with its path high above and its two ends pot of gold at one end. People look, but no on ands say he is looking for the pot of gold at the
end of the rainbow.			MM 05/10/2018
Employee Signature: Mappeliar	>		Date: 10/05/2018
Fit Test Conductor Signature:	0		Date: 5/10 /2018



INTERNATIONAL



Environmental and Safety Training L.LC.
720 Billings Street Unit F
Aurora, Colorado 80011
Phone # (720) 859-3134
Fax # (720) 859-0660

CERTIFIES THAT

WILMER O. ANDUEZA MENDOZA

Has successfully completed

The EPA-APPROVED AHERA ANNUAL ASBESTOS REFRESHER

COURSE for WORKER

And passed the requirements examination in that discipline

This course is EPA-Approved under Section 206 of the Toxic Substance Control Act (TSCA)

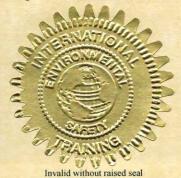
Course Date 09/29/2018

No. Hours 8

Certificate No. CO092918-06AWR

Expires 09/29/2019

This course meets the requirements of AQCC Reg. #8 Part B



Training Director

Midtown Occupational Health Services 2420 W. 26th Ave. Ste. 200-D Denver, CO 80211 Phone: (303) 831-9393 Fax: (303) 831-6335

OSHA Asbestos Certification

A	pplicants	Name Wilmer Andulsa
1	he above 926.1101 vas prefor	individual was seen by me on 11/2/18 in accordance to 29 CFR (Asbestos Certification) and 29 CFR 1910.134 (Respirator Certification). The following med:
1	1.	Completion and review of the standardized medical questionnaire and work history with special emphasis directed to the pulmonary, cardiovascular, and gastrointestinal systems per Appendix D in 1926.1101
	2.	Reviewed the employer's description of this individual's duties as they relate to asbestos exposure, the anticipated exposure level, and the personal protective and respiratory equipment to be utilized by this individual.
	3.	Review of information from previous medical examinations, if available.
	4.	A physical examination with emphasis upon the pulmonary, cardiovascular, and gastrointestinal systems, including a pulmonary function test of forced vital capacity (FVC) and forced expiratory volume at one second (FEV-1).
	5.	Determined that a chest-roentgenogram was \(\subseteq \text{was not } X-required as part of this examination. (note according to CFR 1926.1101 (M)(2)(ii)(C) it is at the discretion of the physician whether or not a chest X-ray is required)
	6.	Reviewed OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2 in accordance with 29CFR 1910.134 and have determined that this individual may may not use a respiratory device while performing his/her required duties
	7.	The employee has been instructed to report any difficulties in using the respirators or any change of physical status to their supervisor or physician.
	87	In accordance with OSHA requirements, I have fully explained the results of the medical examination and laboratory tests to the above named patient.
	9.	In accordance with OSHA I have informed this individual of the health risks involved with smoking, of the synergistic relationship between cigarette smoking and asbestos exposure in producing lung cancer, and that cessation of smoking will reduce the risk of lung cancer.

Midtown Occupational Health Services 2420 W. 26th Ave. Ste. 200-D Denver, CO 80211 Phone: (303) 831-9393 Fax: (303) 831-6335

OSHA Asbestos Certification There is no detected medical condition which would place this employee at an increased risk of material health impairment from exposure to asbestos, and there are no recommended limitations on the employee concerning the use of personal protective equipment or respirator. There is a detected medical condition(s) which places this employee at an increased risk. See comments below for limitations: Comments/Limitations Examining Provider Lon Noel, M.D. Midtown Occupational Health Services, P.C. 2490 W. 26th Ave., Bldg. A, Sulte 300 Denver, CO 80211 303-831-9393

JKS INDUSTRIES

Respirator Fit Test

I, Wilmen Andugo, acknowledge that I have been fit tested and trained for the proper use and
care of my respirator. I have read and understand IKS's written respiratory program manual
Date of Fit Test: 10/05/2018 Fit Test Conductor: Ruben
Respirator Information 1. Manufacturer: North 2. Model: 7700M 3. Size (Circle one): SMALL 4. Approval Number: TC-84A-0592
Irritant smoke used (Circle one)? YES NO
Please initial the following as each test is completed: Breathe normally through the respirator
Breathe deeply through the respirator. Be certain that your breaths are deep and regular
Turn your head from one side to the other to the fullest extent about every second without bumping the respirator on your shoulders. Ensure that your movement is complete. Inhale on each side.
Nod your head up and down to the fullest extent about every second without bumping the respirator on your chest. Ensure that your movement is complete and can be completed quickly. Inhale when you are facing up.
Do several jumping jacks to ensure that the respirator does not come loose from your face.
Move your mouth to its fullest extent; for example, yawn, move your jaw around, etc. Ensure that you can move your mouth as necessary without compromising the fit of the respirator.
Read the Rainbow Passage
When the sunlight strikes raindrops in the air, they act like a prism and form a rainbow. A rainbow is a division of white light into many beautiful colors. These take the shape of a long round arch with its path high above and its two ends apparently beyond the horizon. There is, according to legend, a boiling pot of gold at one end. People look, but no one ever finds it. When a man looks for something beyond his reach his friends say he is looking for the pot of gold at the end of the rainbow. 5/10/18 Employee Signature: Date: 45/3/18 Date: 45/3/18
Fit Test Conductor Signature: Date: S/Co/2018



6. Project Design



6a. SSAR



June 27, 2018



Structure Survey Assessment Report AP-77

4615 Fillmore Street

Denver, CO 80216

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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 InspectorCDOT 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

NLC Non-Lead Containing Paint

NVLAP National Voluntary Laboratory Accreditation Program

OSHA Occupational Safety and Health Administration

PCBs Polychlorinated Biphenyls

PD Project Designer

PEL Permissible Exposure Limits
PLM Polarized Light Microscopy
PPE Personal Protective Equipment

ppm Parts Per Million

RBM Regulated Building Materials

RCRA Resource Conservation and Recovery Act

RHMs Recognized Hazardous Materials
SSAP Structure Survey Assessment Plan

TC Toxicity Characteristic

TCLP Toxicity Characteristic Leaching Procedure USEPA U.S. Environmental Protection Agency

UWR EPA Universal Waste Rule

LIST OF SAMPLING ACRONYMS/ABBREVIATIONS

A Adhesive
BM Brick/Mortar
CB Cove Base
CC Concrete

CER Ceramic Block
CM Ceramic Tile/Mortar

CMU Concrete Masonry Unit/Mortar

CP CarpetCT Ceiling Tile

D Drywall (no surfacing)DJ Drywall/Joint Compound

F Flooring
FT Floor Tile
IN Insulation
L Linoleum
M Mastic

MF Multiple layered Flooring

MT Mortar

PC Popcorn Ceiling

PL Plaster

PM Panel/Mastic R Roofing

RF Roof Flashing

S Siding Stucco

T Texture (no substrate)TC Textured Composite Board

TD Textured Drywall

TSI Thermal System Insulation

VB Vapor Barrier

VP Vent Paste (heating/cooling systems)VW Vent Wrap (heating/cooling systems)

WC Window Caulk

WD Wallpapered Drywall

Tables

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

APEC Project # 18-3066-018

Prepared for

Kiewit Meridiam Partners

Prepared by

Logan Greenfield, CABI & AMS #20715

VP of Field Services

Reviewed by

Brandice Calinger

Brandice Eslinger, EP, CABI & PD # 5494

President

1 Introduction

APEC was contracted to complete an environmental building survey for suspect ACMs, LBP, and RBM. This survey will identify materials that will need to be abated or removed prior to the future demolition activities.

Table 1-1 Project Details

Client Name:	Kiewit Meridiam Partners
Site Location:	4615 Fillmore Street, Denver, CO 80216
Building Type	Residential House
Building Size	Building is approximately 1,722 square feet
Construction Date:	1889 – 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 SSAP, dated March 27, 2018. The SSAP, as defined in Section 23132 of Schedule 17 (Environmental Requirements) of the final Central 70 Project Agreement between CDOT and Kiewit Meridiam Partners, identifies the procedures for completing building and structure surveys for ACMs, LBP and universal wastes or other RHMs, as defined by the RCRA; universal waste, as defined by the USEPA and 6 CCR Part 273 of the Colorado Hazardous Waste Regulations; CFCs, as defined by the Clean Air Act; and PCBs, as defined by the Toxic Substances Control Act.

2 Site Survey Methodology

2.1 ASBESTOS SURVEY

On May 31, 2018, APEC certified personnel Logan Greenfield conducted an asbestos survey for demolition at the aforementioned address. The asbestos survey (inspection/sampling) was completed in accordance with the SSAP and follows guidelines established under the USEPA's AHERA program and as required by USEPA regulation 40 CFR Part 61, NESHAP. Bulk sampling of suspected ACMs were performed in strict accordance with AHERA sampling procedures detailed in 40 CFR 763.86. These include but aren't limited to labeling each sample, recording 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 OSHA, the EPA, the 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 NVLAP and is qualified to perform the required analysis (Appendix A). The analysis conducted was the EPA Interim Method for the Determination of Asbestos in Bulk Samples, using standard PLM and dispersion staining as established in 40 CFR Part 763.

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 May 31, 2018, APEC certified personnel Rick Ralston conducted the LBP survey. The survey was conducted to evaluate the absence and/or presence of LBP or LCP that will be impacted during future demolition activities. The survey consisted of reviewing and inspecting the interior, exterior and roof system of the structure for suspect LBP or LCP. The testing method 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 FAA by EPA Method 7420. EMSL is accredited under the American Industrial Hygiene Association's Environmental Lead Proficiency Analytical Testing program. LBP, according to the EPA, is defined as paint that contains lead in concentrations greater than 1.0 milligrams per square centimeter (mg/cm²) as measured with an XRF or 5000 ppm when measured by weight, or 0.5 percent by weight.

A total of 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 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 May 31, 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 UWR requirements (40 CFR, Part 273). APECs inventory review consisted of the following: potential mercury-containing thermostats/switches; fluorescent light tubes and compact fluorescent bulbs; items potentially containing PCBs (generally ballasts found within the fluorescent light fixtures); tritium powered exit signs; smoke detectors potentially containing Americium-241; and Freon-containing refrigeration systems. The survey of suspected RBMs is 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 34 bulk samples, including 1 duplicate sample, were collected from 9 suspect homogenous materials throughout the structure, and the results of the PLM analysis are presented in Table 3-1A and Table 3-1B. The following samples are positive for ACMs (i.e. present greater than 1%):

Regulated Asbestos Containing Materials (RACM)

- 4615F-R3-TD1A, 4615F-R2-TD1B, 4615F-R4-TD1C, 4615F-R4-TD1D, 4615F-R5-TD1E, 4615F-H-TD1F, 4615F-R6-TD1G, 4615F-C3-TD1H and 4615F-R7-TD1I Light Textured Drywall on the walls of rooms 2,3,4,5,6,7, closets and hallway
- 4615F-R1-TD2A, 4615F-R1-TD2B & 4615F-R1-TD2C Spray Textured Drywall on ceiling of room 1

Point Counts

Point count analysis occurs for samples with <1% of asbestos. Point counts were not needed because the initial results did not exceed 1% asbestos in the homogeneous materials. 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 3-1A or Table 3-1B. One sample, 4615F-R5-PM5Q, was collected because a total of 33 samples were obtained.

3.2 LEAD-BASED PAINT SURVEY

A total of 8 homogeneous paint color variations were analyzed for the presence of LBPs and LCPs (Table 3-2; Figure 3). Under EPA 40 CFR Part 745, LBP is defined as any paint or surface coating that contains lead equal to or exceeding 0.5% (by weight), while LCP is defined as any paint or surface coating containing lead greater than or equal to 0.06% up to 0.5% (by weight). Caution should be taken during demolition to minimize cutting, abrading, or otherwise causing an air disturbance to this material and work must be completed in accordance with the OSHA Lead in Construction Standard (29 CFR 1926.62).

One lead sample (4615F-R3-L-1) was found to be greater than 0.06% by weight and less than 0.5% by weight and is considered LCP. Four samples (4615F-R3-L-4, 4615F-R6-L-6, 4615F-EX-L-7, 4615F-EX-L-8) were found to be greater than 0.5% by weight and are considered LBP (Table 3-2). The remaining 3 samples were less than the LCP and LBP thresholds, and are considered NLC. The laboratory analytical report is included in Appendix D.

3.2.1 TCLP LEAD ANALYTICAL RESULTS

Since one sample analyzed as an LCP and four 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 TC maximum concentration is 5 mg/L. The results of the TCLP analysis is <0.40 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 3-3, and selected locations of the RBMs are depicted in Figure 4.

4 Conclusions and Recommendations

4.1 ASBESTOS

Approximately 2,382 square feet of RACM was identified as light textured drywall located on the walls and ceilings of rooms 2,3,4,5,6,7, closets, hallway and spray textured drywall located on the ceiling of room1. This material will require abatement prior to demolition of the structure because this is easily rendered friable.

No other 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.

General Information

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

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

4.2 LEAD-BASED PAINT

Lead was detected at concentrations above the LCP threshold in 1 of the 8 samples and above the LBP threshold in 4 of the 8 samples. The remaining 3 samples are considered 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 regards to RBMs, if listed in table 3-3, it is likely that the ballasts in the fluorescent light fixtures do contain PCBs. Where a manufacture's label is present indicating "no PCBs", the ballast can be disposed of with recyclable metal or with other municipal waste. During removal for disposal as part of the demolition activities, each ballast should be visually inspected for the 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

Γable 3-1A	Asbestos Containing Samples
Γable 3-1B	Non-Asbestos Containing Samples
Γable 3-2	Summary of Paint Chip Laboratory Analysis for Lead
Γable 3-3	Summary of Regulated Building Materials

Table 3-1A Positive Asbestos Containing Samples

Sample Name	Sample Location	Lab Results/ Asbestos Type	Detection Method(s)	Condition	Material Description	Material Location	NESHAP Classification	Estimated Quantity (Sq. ft.)
4615F-R3-TD1A	ROOM 3	TEXTURE 3% CHRYSOTILE JOINT COMPOUND 3% CHRYSOTILE	PLM	Good			RACM	
4615F-R2-TD1B	ROOM 2	TEXTURE 2% CHRYSOTILE	PLM	Good		WALLS AND CEILINGS OF ROOM 2,3,4,5,6,7 , CLOSETS & HALLWAY	RACM	2,182
4615F-R4-TD1C	ROOM 4	TEXTURE 3% CHRYSOTILE JOINT COMPOUND 3% CHRYSOTILE	PLM	Good	LIGHT TEXTURED DRYWALL		RACM	
4615F-R4-TD1D	ROOM 4	TEXTURE 2% CHRYSOTILE	PLM	Good			RACM	
4615F-R5-TD1E	ROOM 5	TEXTURE 2% CHRYSOTILE	PLM	Good			RACM	
4615F-H-TD1F	HALLWAY	TEXTURE 2% CHRYSOTILE	PLM	Good			RACM	
4615F-R6-TD1G	ROOM 6	TEXTURE 2% CHRYSOTILE	PLM	Good			RACM	
4615F-C3-TD1H	CLOSET 3	Homogeneous to Sample	es 4615F-R3-TI	D1A, 4615F-R2	2-TD1B, 4615F-R4-TD	1C, 4615F-R4-TD1D, 46	615F-R5-TD1E, 461	5F-H-TD1F &
4615F-R7-TD1I	ROOM 7				4615F-R6-TD1G			
4615F-R1-TD2A		TEXTURE 2% CHRYSOTILE	PLM	Good			RACM	
4615F-R1-TD2B	ROOM 1	TEXTURE <1% CHRYSOTILE JOINT COMPOUND <1% CHRYSOTILE	PLM	Good	SPRAY TEXTURED DRYWALL	CEILING OF ROOM 1	RACM	200
4615F-R1-TD2C		TEXTURE 2% CHRYSOTILE	PLM	Good			RACM	

ND=Non-Detect PLM=Polarized Light Microscopy NA=Not Applicable RACM=Regulated Asbestos Containing Materials

Table 3-1B Non-Asbestos Containing and OSHA Regulated Samples

Sample Name	Sample	Lab Results/ Asbestos	Detection	Condition	Material Description	Material	NESHAP
	Location	Туре	Method(s)			Location	Classification
4615F-R2-L3A	ROOM 2	ND	PLM	Good	FLOWER PATTERN LINOLEUM	FLOORS OF ROOMS 2 & 3	N/A
4615F-R2-L3B	NOOW 2						
4615F-R3-L3C	ROOM 3						
4615F-R5-L4A							
4615F-R5-L4B	ROOM 5	ND	PLM	Good	WOOD PATTERN LINOLEUM	FLOOR OF ROOM 5	N/A
4615F-R5-L4C]						
4615F-R5-PM5A							
4615F-R5-PM5B	ROOM 5	ND	PLM	Good	PANEL/MASTIC	WALLS OF ROOM 5	N/A
4615F-R5-PM5Q	- ROOM 5	IND	PLIVI				
4615F-R5-PM5C							
4615F-R1-M6A		ND	PLM	Good	PLAIN DRYWALL/MASTIC	WALLS BEHIND WOOD PANELING	N/A
4615F-R1-M6B	ROOM 1						
4615F-R1-M6C							
4615F-EX-VB7A							
4615F-EX-VB7B	EXTERIOR	ND PLM	PLM Good	VAPOR BARRIER	BEHIND SIDING	N/A	
4615F-EX-VB7C							
4615F-EX-R8A		ND F	PLM	Good	ROOFING	EXTERIOR	N/A
4615F-EX-R8B	EXTERIOR						
4615F-EX-R8C]						
4615F-EX-WG9A	EVTEDIOD	ND	PLM	Good	WINDOW OF AZING	WINDOWS	N/A
4615F-EX-WG9B	EXTERIOR				WINDOW GLAZING		

Sample Name	Sample Location		Detection Method(s)	Condition			NESHAP Classification
4615F-EX-WG9C	EXTERIOR	ND	PLM	Good	WINDOW GLAZING	WINDOWS	N/A

ND=Non-Detect PLM=Polarized Light Microscopy NA=Not Applicable Table 3-2 Summary of Paint Chip Analysis for Lead

Sample Number	Sample Location	Lead Concentration (% wt.)	Component	Paint Description	Classification
4615-R3-L-1	Room 3	0.23	Wood	White	LCP
4615-R4-L-2	Room 4	<0.0080	Drywall	Cream	NLC
4615-R4-L-3	Room 4	<0.0080	Drywall	White	NLC
4615-R4-L-4	Room 4	1.0	Wood	Off-White	LBP
4615-R6-L-5	Room 6	<0.0080	Drywall	Peach	NLC
4615-R6-L-6	Room 3	2.1	Wood	Brown	LBP
4615-Ex-L-7	Exterior	5.6	Wood	Fawn	LBP
4615-Ex-L-8	Exterior	1.7	Wood	Brown	LBP

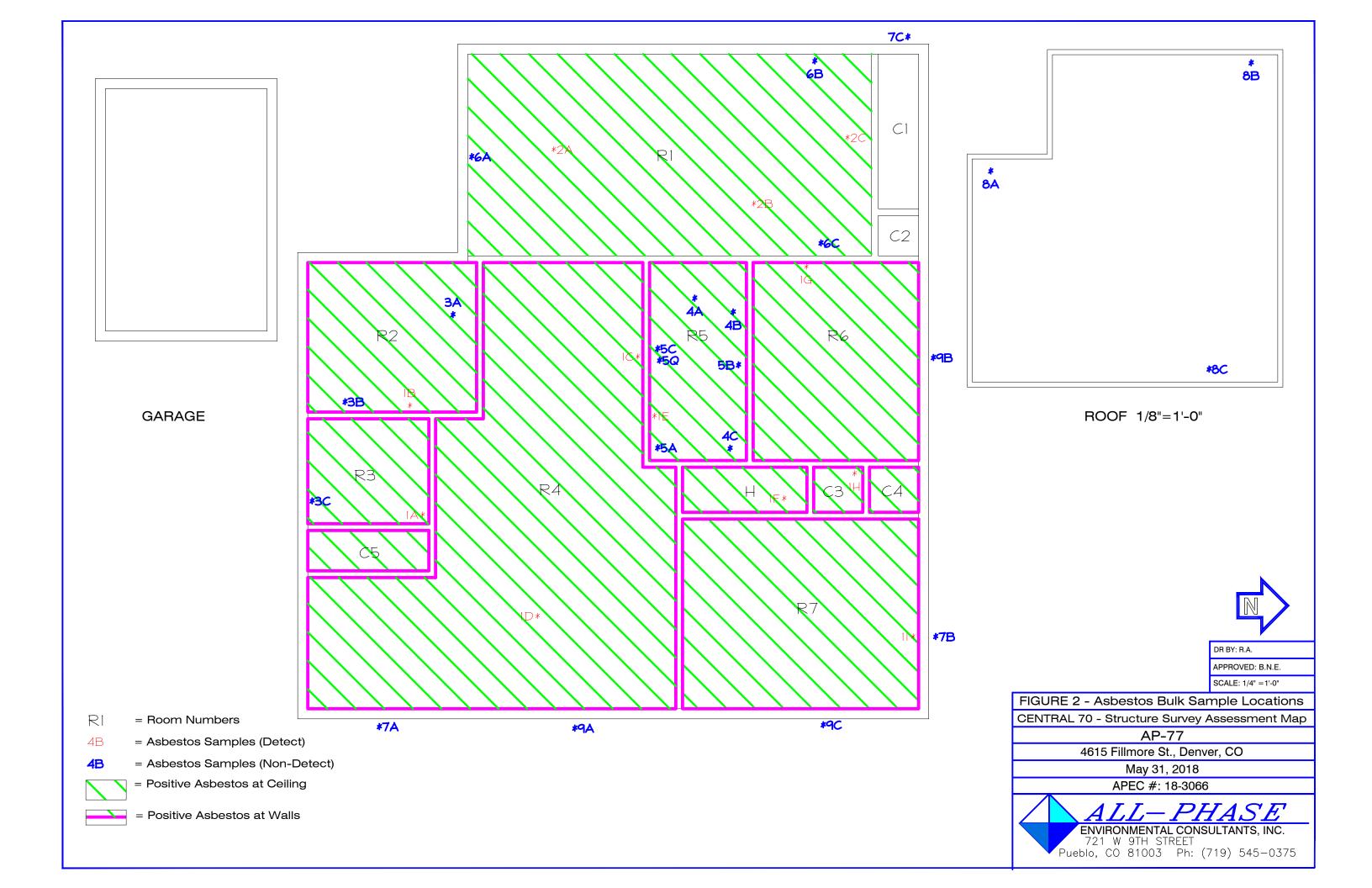
Table 3-3 Summary of Regulated Building Materials

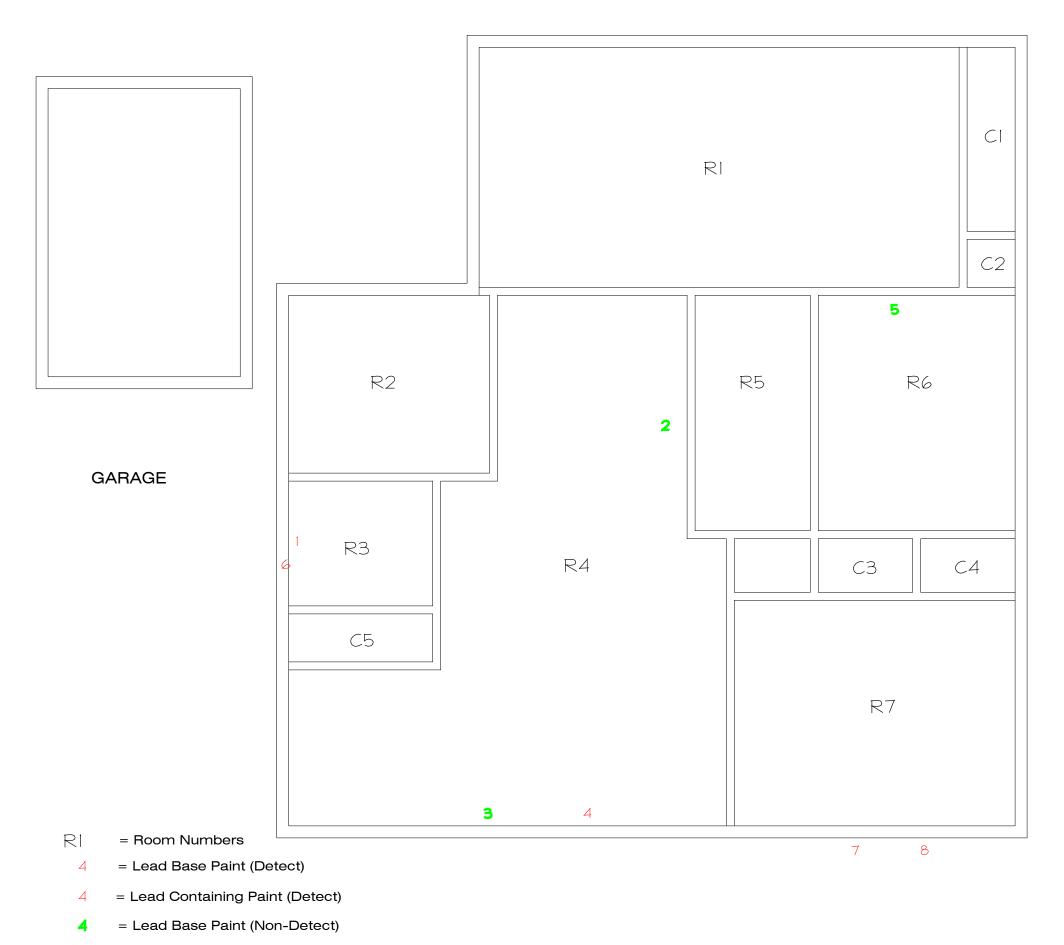
Room	Material	Location	Quantity Fixture/Bulbs each
Garage	Florescence Fixture	Ceiling	I fixture/2 bulbs
Garage	Breaker Panel	North wall	I
Exterior	Gas Meter	Front of house	I
Room 3	Fire alarm	Ceiling	I
Room 3	FreeZer	North Side of Room	1
Room 3	Breaker Panel	West end	1
Exterior	Electrical Meter	South West Corner of House	I
Exterior	Breaker Panel	South West Corner of House	1

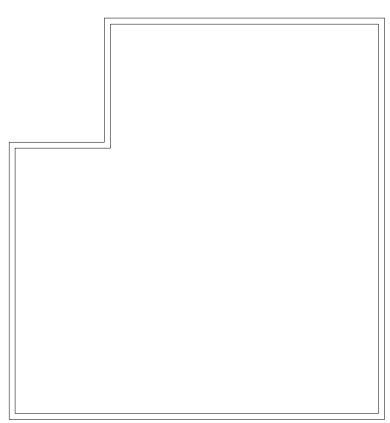
Figures

Figure 1	Site Location
Figure 2	Asbestos Bulk Sample Locations
Figure 3	Lead-Based Paint Sample Locations
Figure 4	Regulated Building Materials









ROOF 1/8"=1'-0"



DR BY: R.A.

APPROVED: B.N.E.

SCALE: 1/8" = 1'-0"

FIGURE 3 - Lead Based Paint Sample Location

CENTRAL 70 - Structure Survey Assessment Map

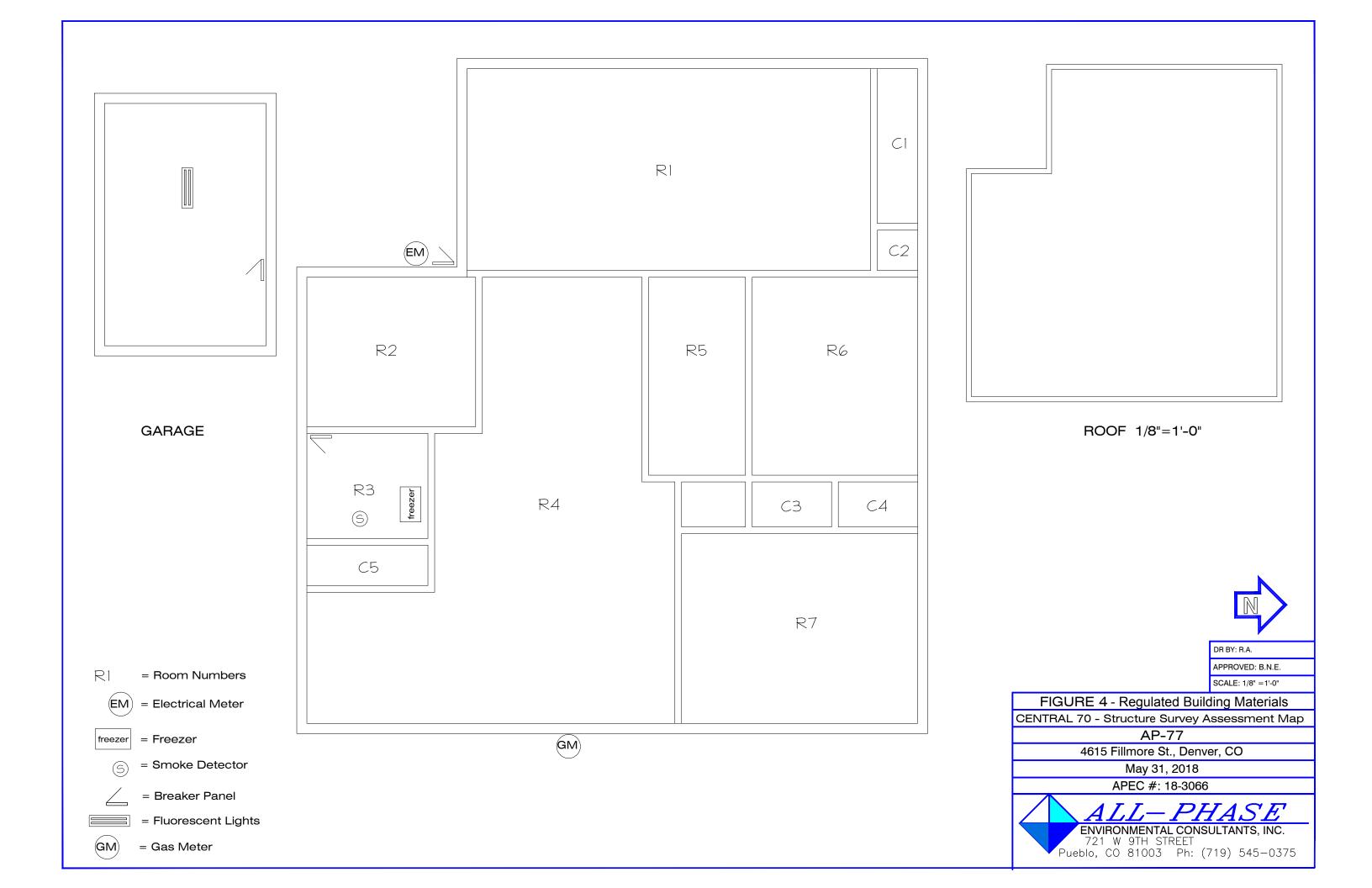
AP-77

4615 Fillmore St., Denver, CO

May 31, 2018

APEC #: 18-3066







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

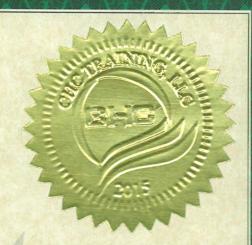
* This certificate is valid only with the possession of a current Division-approved training course certification in the discipline specified above.

Authorized APCD Representative

SEAL



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



Frenk Hulce

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

-Aanaya Boneditts

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



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 Peon - Instructor

Hamaya Baneditts

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.

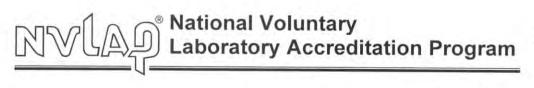
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2018-04-01 through 2019-03-31

Effective Dates



For the National Voluntary Laboratory Accreditation Program





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
- ✓ ENVIRONMENTAL LEAD
- ✓ ENVIRONMENTAL MICROBIOLOGY
- ☐ FOOD
- ☐ UNIQUE SCOPES

Accreditation Expires: September 01, 2018 Accreditation Expires: September 01, 2018 Accreditation Expires: September 01, 2018

Accreditation Expires: 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.

Un much

William Walsh, CIH
Chairperson, Analytical Accreditation Board

Revision 15: 03/30/2016

Cheryl O. Morton

Managing Director, AIHA Laboratory Accreditation Programs, LLC

Date Issued: 08/31/2016



AIHA Laboratory Accreditation Programs, LLC SCOPE OF ACCREDITATION

Laboratory ID: **100194**

EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

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)
Doint		EPA SW-846 3050B	
Paint		EPA SW-846 7000B	
Soil		EPA SW-846 3050B	
5011		EPA SW-846 7000B	
Cottled Duct by Wine		EPA SW-846 3050B	
Settled Dust by Wipe		EPA SW-846 7000B	
Airborne Dust		NIOSH 7082	
Comment of the A. W. Comment		EPA SW-846 3050B	
Composited Wipes		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

Effective: 05/04/2015

100194_Scope_ELLAP_2016_08_31

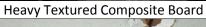
Page 1 of 1

B

POSITIVE ASBESTOS & LEAD SAMPLE MATERIAL PHOTOGRAPHS



Samples Represented –
AP53-R6-TC1A
AP53-R6-TC1B
AP53-R5-TC1C
AP53-R4-TC1D
AP53-R4-TC1E





Samples Represented –
AP53-R6-TC3A
AP53-R5-TC3B
AP53-R4-TC3C

Swirl Textured Composite Board



Samples Represented – 4615-R3-L-1

White - LCP



06/01/2018 14:48

Fawn - LBP

Sample Represented – 4615-Ex-L-7



Sample Represented – 4615-Ex-L-8



LABORATORY RESULTS & CHAIN OF CUSTODY-ASBESTOS



Customer PO: Project ID:

Attention: Logan Greenfield Phone: (719) 250-0036
All-Phase Environmental Consultants, Inc Fax: (719) 542-2807

Collected Date: Project: 18-3066-CDOT-A-AP77

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

			Non-Asbestos		<u>Asbestos</u>	
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type	
4615F-R3-TD1A-Te	Light textured drywall	White		20% Ca Carbonate	3% Chrysotile	
xture		Fibrous		77% Non-fibrous (Other)		
221804000-0001		Heterogeneous				
		In	nseparable paint / coating layer includ	ed in analysis		
4615F-R3-TD1A-Ta	Light textured drywall	Tan	95% Cellulose	5% Non-fibrous (Other)	None Detected	
ре		Fibrous				
221804000-0001A		Homogeneous				
4615F-R3-TD1A-Joi	Light textured drywall	White		20% Ca Carbonate	3% Chrysotile	
nt Compound		Fibrous		77% Non-fibrous (Other)		
221804000-0001B		Homogeneous				
4615F-R3-TD1A-Dr	Light textured drywall	Brown/White	15% Cellulose	70% Gypsum	None Detected	
ywall		Fibrous		15% Non-fibrous (Other)		
221804000-0001C		Homogeneous				
4615F-R2-TD1B-Tex	Light textured drywall	White/Pink		20% Ca Carbonate	2% Chrysotile	
ture		Fibrous		78% Non-fibrous (Other)		
221804000-0002		Heterogeneous				
		In	nseparable paint / coating layer includ	ed in analysis		
4615F-R2-TD1B-Dry	Light textured drywall	Brown/White	15% Cellulose	70% Gypsum	None Detected	
wall		Fibrous		15% Non-fibrous (Other)		
221804000-0002A		Homogeneous				
4615F-R4-TD1C-Tex	Light textured drywall	White/Green/Beige		20% Ca Carbonate	3% Chrysotile	
ture		Fibrous		77% Non-fibrous (Other)		
221804000-0003		Heterogeneous				
		In	nseparable paint / coating layer includ	ed in analysis		
4615F-R4-TD1C-Tap	Light textured drywall	Tan	95% Cellulose	5% Non-fibrous (Other)	None Detected	
е		Fibrous				
221804000-0003A		Homogeneous				
4615F-R4-TD1C-Joi	Light textured drywall	White		20% Ca Carbonate	3% Chrysotile	
nt Compound		Fibrous		77% Non-fibrous (Other)		
nt Compound						

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



Customer PO: Project ID:

Attention: Logan Greenfield Phone: (719) 250-0036
All-Phase Environmental Consultants, Inc Fax: (719) 542-2807

721 West 9th Street Received Date: 06/04/2018 9:45 PM Pueblo, CO 81003 Analysis Date: 06/08/2018 - 06/09/2018

Collected Date:

Project: 18-3066-CDOT-A-AP77

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

			Non-As	Non-Asbestos	
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
4615F-R4-TD1C-Dry	Light textured drywall	Brown/White	15% Cellulose	70% Gypsum	None Detected
wall		Fibrous		15% Non-fibrous (Other)	
221804000-0003C		Homogeneous			
4615F-R4-TD1D-Tex	Light textured drywall	White/Blue		20% Ca Carbonate	2% Chrysotile
ure		Fibrous		78% Non-fibrous (Other)	
221804000-0004		Heterogeneous			
			Inseparable paint / coating layer include	ed in analysis	
4615F-R4-TD1D-Dry	Light textured drywall	Brown/White	15% Cellulose	70% Gypsum	None Detected
wall		Fibrous		15% Non-fibrous (Other)	
221804000-0004A		Homogeneous			
4615F-R5-TD1E-Tex	Light textured drywall	White/Green		20% Ca Carbonate	2% Chrysotile
ture		Fibrous		78% Non-fibrous (Other)	
221804000-0005		Heterogeneous			
			Inseparable paint / coating layer include	ed in analysis	
4615F-R5-TD1E-Dry	Light textured drywall	Brown/White	15% Cellulose	70% Gypsum	None Detected
wall		Fibrous		15% Non-fibrous (Other)	
221804000-0005A		Homogeneous			
4615F-H-TD1F-Text	Light textured drywall	Tan/Beige		15% Ca Carbonate	2% Chrysotile
ure		Non-Fibrous		83% Non-fibrous (Other)	
221804000-0006		Heterogeneous			
4615F-H-TD1F-Dry	Light textured drywall	Beige	15% Cellulose	65% Gypsum	None Detected
wall		Fibrous		20% Non-fibrous (Other)	
221804000-0006A		Homogeneous			
4615F-R6-TD1G-Te	Light textured drywall	Tan/Green		98% Non-fibrous (Other)	2% Chrysotile
xture		Non-Fibrous			
221804000-0007		Heterogeneous			
			Inseparable paint / coating layer include	ed in analysis	
4615F-R6-TD1G-Dr	Light textured drywall	Beige	15% Cellulose	65% Gypsum	None Detected
ywall		Fibrous		20% Non-fibrous (Other)	
221804000-0007A		Homogeneous			

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



Customer PO: Project ID:

Attention: Logan Greenfield Phone: (719) 250-0036
All-Phase Environmental Consultants, Inc Fax: (719) 542-2807

Collected Date: Project: 18-3066-CDOT-A-AP77

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

			Non-Asbestos		<u>Asbestos</u>
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
4615F-C3-TD1H-Dry	Light textured drywall	White	15% Cellulose	65% Gypsum	None Detected
wall		Non-Fibrous		20% Non-fibrous (Other)	
221804000-0008		Heterogeneous			
			Sample bag contains paint and drywall of Inseparable paint / coating layer include	•	
4615F-R7-TD1I	Light textured drywall	White/Beige	15% Cellulose	65% Gypsum	None Detected
221804000-0009		Fibrous		20% Non-fibrous (Other)	
		Heterogeneous			
			Sample bag contains paint and drywall of Inseparable paint / coating layer include	•	
4615F-R1-TD2A-Te	Spray textured drywall	White		20% Ca Carbonate	2% Chrysotile
xture		Non-Fibrous		78% Non-fibrous (Other)	
221804000-0010		Heterogeneous			
			Inseparable paint / coating layer include	d in analysis	
4615F-R1-TD2A-Dr	Spray textured drywall	Brown/White	15% Cellulose	70% Gypsum	None Detected
ywall		Fibrous		15% Non-fibrous (Other)	
221804000-0010A		Homogeneous			
4615F-R1-TD2B-Tex	Spray textured drywall	White		20% Ca Carbonate	<1% Chrysotile
ture		Non-Fibrous		80% Non-fibrous (Other)	
221804000-0011		Heterogeneous			
			Inseparable paint / coating layer include	d in analysis	
4615F-R1-TD2B-Tap	Spray textured drywall	Tan	95% Cellulose	5% Non-fibrous (Other)	None Detected
е		Fibrous			
221804000-0011A		Homogeneous			
4615F-R1-TD2B-Joi	Spray textured drywall	White		20% Ca Carbonate	<1% Chrysotile
nt Compound		Non-Fibrous		80% Non-fibrous (Other)	
221804000-0011B		Homogeneous			
4615F-R1-TD2B-Dry	Spray textured drywall	Brown/White	15% Cellulose	70% Gypsum	None Detected
wall		Fibrous		15% Non-fibrous (Other)	
221804000-0011C		Homogeneous			

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



Customer PO: Project ID:

Attention: Logan Greenfield Phone: (719) 250-0036
All-Phase Environmental Consultants, Inc Fax: (719) 542-2807

Collected Date: Project: 18-3066-CDOT-A-AP77

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

			Non-Asbestos		<u>Asbestos</u>
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
4615F-R1-TD2C-Tex	Spray textured drywall	White		15% Ca Carbonate	2% Chrysotile
ture		Non-Fibrous		83% Non-fibrous (Other)	
221804000-0012		Heterogeneous			
			Inseparable paint / coating layer include	ed in analysis	
4615F-R1-TD2C-Dry	Spray textured drywall	White	15% Cellulose	65% Gypsum	None Detected
wall		Fibrous		20% Non-fibrous (Other)	
221804000-0012A		Homogeneous			
4615F-R2-L3A	Flower pattern linoleum	Tan/White		35% Ca Carbonate	None Detected
221804000-0013		Non-Fibrous		65% Non-fibrous (Other)	
		Homogeneous			
			Result includes a small amount of inse	parable attached clear adhesive	
4615F-R2-L3B	Flower pattern linoleum	Tan/White		35% Ca Carbonate	None Detected
221804000-0014		Non-Fibrous		65% Non-fibrous (Other)	
		Homogeneous			
			Result includes a small amount of inse	parable attached clear adhesive	
4615F-R2-L3C-Floor	Flower pattern linoleum	White		100% Non-fibrous (Other)	None Detected
ing		Non-Fibrous			
221804000-0015		Homogeneous			
4615F-R2-L3C-Mast	Flower pattern linoleum	Clear		100% Non-fibrous (Other)	None Detected
ic		Non-Fibrous			
221804000-0015A		Homogeneous			
4615F-R2-L3C-Back	Flower pattern linoleum	Brown	95% Cellulose	5% Non-fibrous (Other)	None Detected
ing		Fibrous			
221804000-0015B		Homogeneous			
4615F-R5-L4A-Linol	Wood pattern linoleum	Brown/White	25% Cellulose	15% Ca Carbonate	None Detected
eum		Fibrous	5% Glass	55% Non-fibrous (Other)	
221804000-0016		Homogeneous			
4615F-R5-L4A-Mast	Wood pattern linoleum	Tan		100% Non-fibrous (Other)	None Detected
ic		Non-Fibrous			

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



Customer PO: Project ID:

Attention: Logan Greenfield Phone: (719) 250-0036
All-Phase Environmental Consultants, Inc Fax: (719) 542-2807

Collected Date: Project: 18-3066-CDOT-A-AP77

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

			<u>Non-Asbestos</u>		
Sample	Description	Appearance	% Fibrous % Non-Fibrous		% Type
4615F-R5-L4A-Lev eler 221804000-0016B	Wood pattern linoleum	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
4615F-R5-L4B-Linol eum 221804000-0017	Wood pattern linoleum	Brown/White Fibrous Homogeneous	25% Cellulose 5% Glass	20% Ca Carbonate 50% Non-fibrous (Other)	None Detected
4615F-R5-L4B-Mast ic 221804000-0017A	Wood pattern linoleum	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
4615F-R5-L4C-Linol eum 221804000-0018	Wood pattern linoleum	Brown/Tan Fibrous Homogeneous	25% Cellulose 10% Glass	65% Non-fibrous (Other)	None Detected
4615F-R5-L4C-Mast ic 221804000-0018A	Wood pattern linoleum	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
4615F-R5-PM5A-Pa neling 221804000-0019	Panel/Mastic	Brown/White Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
4615F-R5-PM5A-Ma stic 221804000-0019A	Panel/Mastic	Tan Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
4615F-R5-PM5B-Pa neling 221804000-0020	Panel/Mastic	Brown/White Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
4615F-R5-PM5B-Ma stic 221804000-0020A	Panel/Mastic	Tan Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
4615F-R5-PM5Q-Pa neling 221804000-0021	Panel/Mastic	Brown/Beige Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected

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



Customer PO: Project ID:

Attention: Logan Greenfield Phone: (719) 250-0036
All-Phase Environmental Consultants, Inc Fax: (719) 542-2807

Collected Date:

Project: 18-3066-CDOT-A-AP77

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

		<u>Non-Asbestos</u>			<u>Asbestos</u>	
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type	
4615F-R5-PM5Q-Ma stic 221804000-0021A	Panel/Mastic	Brown/Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected	
4615F-R5-PM5C-Pa neling 221804000-0022	Panel/Mastic	Brown/White Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected	
4615F-R5-PM5C-Ma stic 221804000-0022A	Panel/Mastic	Tan Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected	
4615F-R1-M6A-Mas tic 221804000-0023	Plain drywall/mastic	Tan Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected	
4615F-R1-M6A-Dry wall 221804000-0023A	Plain drywall/mastic	Brown/White Fibrous Homogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other)	None Detected	
4615F-R1-M6B-Mas tic 221804000-0024	Plain drywall/mastic	Tan Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected	
4615F-R1-M6B-Dry wall 221804000-0024A	Plain drywall/mastic	Brown/White Fibrous Homogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other)	None Detected	
4615F-R1-M6C-Mas tic 221804000-0025	Plain drywall/mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected	
4615F-R1-M6C-Dry wall 221804000-0025A	Plain drywall/mastic	White Fibrous Homogeneous	15% Cellulose	65% Gypsum 20% Non-fibrous (Other)	None Detected	
4615F-EX-VB7A 221804000-0026	Vapor Barrier	Black Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (Other)	None Detected	

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



Customer PO: Project ID:

Attention: Logan Greenfield Phone: (719) 250-0036
All-Phase Environmental Consultants, Inc Fax: (719) 542-2807

Collected Date:

Project: 18-3066-CDOT-A-AP77

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

		<u>Non-Asbestos</u>			<u>Asbestos</u>	
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type	
4615F-EX-VB7B	Vapor Barrier	Black	70% Cellulose	30% Non-fibrous (Other)	None Detected	
221804000-0027		Fibrous				
		Homogeneous				
4615F-EX-VB7C	Vapor Barrier	Black	65% Cellulose	35% Non-fibrous (Other)	None Detected	
221804000-0028		Fibrous				
		Homogeneous				
4615F-EX-R8A-Shin	Roofing	Brown/Black	20% Glass	10% Ca Carbonate	None Detected	
gle		Fibrous		70% Non-fibrous (Other)		
221804000-0029		Homogeneous				
4615F-EX-R8A-Tar	Roofing	Black	70% Cellulose	30% Non-fibrous (Other)	None Detected	
Paper		Fibrous				
221804000-0029A		Homogeneous				
4615F-EX-R8B-Shin	Roofing	Brown/Black	20% Glass	10% Ca Carbonate	None Detected	
gle		Fibrous		70% Non-fibrous (Other)		
221804000-0030		Homogeneous				
4615F-EX-R8B-Mast	Roofing	Black		100% Non-fibrous (Other)	None Detected	
ic		Non-Fibrous				
221804000-0030A		Homogeneous				
4615F-EX-R8B-Tar	Roofing	Black	70% Cellulose	30% Non-fibrous (Other)	None Detected	
Felt		Fibrous				
221804000-0030B		Homogeneous				
4615FEX-R8C-Shing	Roofing	Silver	10% Glass	90% Non-fibrous (Other)	None Detected	
le		Fibrous				
221804000-0031		Homogeneous				
4615FEX-R8C-Tar	Roofing	Black	65% Cellulose	35% Non-fibrous (Other)	None Detected	
Felt		Fibrous				
221804000-0031A		Homogeneous				
4615F-EX-WG9A	Window glazing	White		40% Ca Carbonate	None Detected	
221804000-0032		Non-Fibrous		60% Non-fibrous (Other)		
		Homogeneous				

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



Customer PO: Project ID:

Attention: Logan Greenfield Phone: (719) 250-0036

All-Phase Environmental Consultants, Inc. Fax: (719) 542-2807 721 West 9th Street Received Date: 06/04/2018 9:45 PM Pueblo, CO 81003

Analysis Date: 06/08/2018 - 06/09/2018

Collected Date:

Project: 18-3066-CDOT-A-AP77

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

		Non-A	<u>sbestos</u>	<u>Asbestos</u>	
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
4615F-EX-WG9B 221804000-0033	Window glazing	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
4615F-EX-WG9C 221804000-0034	Window glazing	White Non-Fibrous Homogeneous		25% Ca Carbonate 75% Non-fibrous (Other)	None Detected

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%

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



Henry Printy

EMSL Order: 221804000 Customer ID: ALLP62

Customer PO: Project ID:

Collected Date:

Attention: Logan Greenfield Phone: (719) 250-0036

All-Phase Environmental Consultants, Inc Fax: (719) 542-2807
721 West 9th Street Received Date: 06/04/2018 9:45 PM

721 West 9th Street Received Date: 06/04/2018 9:45 PM
Pueblo, CO 81003 Analysis Date: 06/08/2018 - 06/09/2018

Project: 18-3066-CDOT-A-AP77

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: 06/04/2018 Sample Receipt Time: 9:45 PM

Analysis Completed Date: 06/09/2018 Analysis Completed Time: 12:57 PM

Analyst(s):

Stuart Printz PLM (46)

Timothy Kleehammer PLM (21)

Samples Reviewed and approved by:

Amanda Lang, Asbestos Laboratory Manager or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%

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



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

22/804000

EMSL Analytical, Inc 1010 Yuma Street

Denver, CO 80204

PHONE (303) 740-5700 FAC (303) 741-1400

Company : All-Phase Environmenta		EMSL-B	ill to: Different		
	al Consultants, Inc.	If Bill to is Diff	larent note instructions in Com		
Street: 721 W. 9th Street		Third Party Billing red	quires written authonzation	from third party	
City: Pueblo	City: Pueblo State/Province: CO		Zip/Postal Code: 81003 Country: United States		
Report To (Name): Logan Greenfield		Telephone #: 719-250-0	0036		
Email Address: logan@allphaseer	vironmental.com	Fax #:	Purchase Q		
Project Name/Number: 18-306 6	-CDOT-A-AP77	Please Provide Results			
U.S. State Samples Taken: CO		Connecticut Samples: [identia I	
3 Hour 6 Hour		T) Options* - Please Che		2 Week	
*For TEM Air 3 hr through 6 hr, please call al	24 Hour				
an authorization form for this service	Analysis completed in accorda	ance with EMSL's Terms and Cor	nditions located in the Analyt	ical Price Guide	
PCM - Air Check if samples are fro		-4.5hr TAT (AHERA only)	TEM- Dust		
☐ NIOSH 7400	AHERA 40 C		Microvac - ASTM I		
☐ w/ OSHA Bhr. TWA	NIOSH 7402		☐ Wipe - ASTM D64	I.	
PLM - Bulk (reporting limit)	☐ EPA Level II		Carpel Sonication	· }	
PLM EPA 600/R-93/116 (<1%)	☐ ISO 10312		Soil/Rock/Vermiculit		
PLM EPA NOB (<1%)	TEM - Bulk		☐ PLM CARB 435 - /	· ·	
Point Count	☐ TEM EPA NO	•	PLM CARB 435 - I		
☐ 400 (<0.25%) ☐ 1000 (<0.1%)		98.4 (non-friable-NY)	TEM CARB 435 - I	• 1	
Point Count w/Gravimetric	Chatfield SO		TEM CARB 435 -	•	
400 (<0.25%) 1000 (<0.1%)		nalysis-EPA 600 sec 2.5	TEM Qual via Filti	· ·	
☐ NYS 198.1 (friable in NY) ☐ NYS 198.6 NOB (non-friable-NY)	TEM - Water: E		TEM Qual. via Dro	b-iviount recunique	
· · · · · · · · · · · · · · · · · · ·	· '	☐ Waste ☐ Drinking	Other:		
☐ NIOSH 9002 (<1%)	All Fiber Sizes	☐ Waste ☐ Drinking	<u> </u>		
☐ Check For Positive Stop - Clearly	Identify Homogenous G	roup Filter Pore Size (A	Air Samples): 🔲 0.8	ım 🔲 0.45µm	
Samplers Name: Logan Gr	reen field	Samplers Signature:	4		
campiero Manie. Poguet Ur	CUCICIE	Gampiers Signature.	Volume/Area (Air)	Date/Time	
Sample #	Sample Descript	ion	HA # (Bulk)	Sampled	
4615F-R3-TDIA Ligh	t textured	Drywall		5-31-18	
4615F-R2-TDIB					
4615F-R4-TDIC		<u> </u>			
4615F-R4-TDID					
4615F-R5-TD1E					
4615F-H-TD1F					
4615F-RU-TOIG				/	
4615F-C3-TDIH	V			1/	
	-		Total # of Samples:	34	
Client Sample # (s):					
Client Sample # (s): Relinquished (Client):	Date		Time	: 430	
Relinquished (Client):	Date Date	: 614/18	Time	0	
Relinquished (Client):		: 614/18	Time 79547364		

3



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

22180400

EMSL Analytical, Inc. 1010 Yuma Street

Denver, CO 8 0204 Frital (303) 740-5700 Frital (303) 741-1400

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

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
4615F-R7-TDII	Light textured Drywall		5-31-18
4615F-RI-TD2A	Spray textured Drywall		
4615F-RI-TDZB			
4615F-RI-TD2C			
4615F-R2-L3A	Flower Pattern Linoleum		
4615F-R2-L3B			
4615F-R3-23C			
4615F-R5-L4A	Wood Pattern Linoleum		
4615F-R5-L4B			
1615F-R5-L4C			
4615F-R5-PM5A	Panel/Mastic		
1415F-R6-PM5B			
1615F-R5-PM5Q			
615F-R5-PM5C	<u> </u>		
615F-RI-MGA	Plain Drywall/Mastic		
615F-RI-M6B			
615F-RI-MGC			
616F-EX-VB7A	Vapor Barrier		
USF-EX-VB7B			
015F-EX-VBTC			
115F-EX-R8A	Roofing		
015F-EX-R8 B			
115F-EX-RBC	u		_
15F-EX-WG9A	Window Glazing		V

3



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

221804000

EMSL Analytical, Inc 1010 Yuma Street

Denver, CO 8 0204 1 (303) 740-5700 (303) 741-1400

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

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
115F-EX-WG 9B	Sample Description Window Glazing	-	5-31-18
_	WWW.		1
15F-Ex-WG9C	V		V
\			
			
			
			
·			\
	· · · · · · · · · · · · · · · · · · ·		
mments/Special Instructi	ions:		

Page 3 of 3 pages

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: CustomerID: 201805983 ALLP62

CustomerPO: ProjectID:

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

Phone: (719) 225-6953 Fax: (719) 542-2807 Received: 06/04/18 10:20 AM Collected: 5/31/2018

Project: 18-3066-C70-L-AP

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

Client Sample Descr	ription Lab ID Collected Analyzed	Weight	Lead Concentration
4615F-R3-L-1	201805983-0001 5/31/2018 6/6/2018	0.2533 g	0.23 % wt
	Site: Room 3 Door Frame - White		
4615-R4-L-2	201805983-0002 5/31/2018 6/6/2018	0.2576 g	<0.0080 % wt
	Site: Room 4 Drywall - Cream		
4615-R4-L-3	201805983-0003 5/31/2018 6/6/2018	0.2550 g	<0.0080 % wt
	Site: Room 4 Drywall - White		
4615-R4-L-4	201805983-0004 5/31/2018 6/6/2018	0.2548 g	1.0 % wt
	Site: Room 4 - Wood Window - Off White		
4615-R6-L-5	201805983-0005 5/31/2018 6/6/2018	0.2588 g	<0.0080 % wt
	Site: Room 6 - Drywall - Peach		
4615-R6-L-6	201805983-0006 5/31/2018 6/6/2018	0.2501 g	2.1 % wt
	Site: Room 3 - Exit Door - Wood - Brown		
4615-Ex-L-7	201805983-0007 5/31/2018 6/6/2018	0.2938 g	5.6 % wt
	Site: Exterior - Window Frame - Wood - Fawn		
4615-Ex-L-8	201805983-0008 5/31/2018 6/6/2018	0.2581 g	1.7 % wt
	Site: Exterior - Window Frame - Wood - Brown		

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 06/07/2018 09:31:34



Lead (Pb) Chain of Custody EMSL Order ID (Lab Use Only):

201805983

EMSL Analytical, Inc. 200 Route 130 North

Cinnaminson, NJ 08077 PHONE: 1-800-220-3675 (856) 786-5974

Company: All-Phase Environmental C	If Bill to is Different note instructions in Comments**							
Street: 721 West 9th Street	Third Party Billing requires written authorization from third party							
City:Pueblo State/I	Zip/Postal Code: 81003 Country: US							
Report To (Name): Richard Ralston	Telephone #: 7192256953							
Email Address: rick@allphaseenvironi	710 510 0007							
Project Name/Number: 18-3066-C70-L		rovide Res			√ Em			
U.S. State Samples Taken: CO						ole 🔲	Residential/Tax	Exempt
	urnaround Time (TA							
	Hour 48 Hour		2 Hour	96 1		A COLUMN TO SERVICE AND ADDRESS OF THE PARTY		2 Week
Matrix	ed in accordance with EMS Method	ses remis a		strumen			orting Limit	Check
Chips % by wt. mg/cm² ppm (mg/kg)		R		tomic Abso		itop	0.01%	
	SW846-7000B							
Air	NIOSH 7082 NIOSH 7105	1		tomic Abso		4 µg/filter		H
	NIOSH 7300M/NIOS		Graphite Furnace AA ICP-OES		5 AA	0.03 μg/filter 0.5 μg/filter		H
Wipe* ASTM □	SW846-7000I		Flame Atomic Absorption			10 μg/wipe		
non ASTM					Phon	100		
*if no box checked, non-ASTM Wipe assumed	SW846-6010B d	or C	ICP-OES		1.0 µg/wipe			
TCLP	SW846-1311/7000B/S	Flame Atomic Absorption		0.4 mg/L (ppm)				
No. 15 In contract of the cont	SW846-1311/SW846-6	ICP-OES			0.1	mg/L (ppm)		
SPLP	SW846-1312/7000B/S	and the second second	Flame Atomic Absorption		orption		mg/L (ppm)	
	SW846-1312/SW846-6	ICP-OES			0.1 mg/L (ppm)			
TTLC	22 CCR App. II, 7000	Flame Atomic Absorption		40 mg/kg (ppm)				
	22 CCR App. II, SW846-6	ICP-OES		2 mg/kg (ppm)				
STLC	22 CCR App. II, 7000	Flame Atomic Absorption ICP-OES		0.4 mg/L (ppm) 0.1 mg/L (ppm)				
Soil	22 CCR App. II, SW846-6 SW846-7000							
Soli	SW846-7000B SW846-6010B or C		Flame Atomic Absorption ICP-OES		40 mg/kg (ppm) 2 mg/kg (ppm)			
				The Park Land	restion			
Wastewater Unpreserved ☐ Preserved with HNO ₃ pH < 2 ☐	SM3111B/SW846-7000B EPA 200.9		Flame Atomic Absorption Graphite Furnace AA		0.4 mg/L (ppm) 0.003 mg/L (ppm)		H	
Preserved with HNO₃ pH < 2 □	EPA 200.7	ICP-OES		0.020 mg/L (ppm)		H		
_	EPA 200.8		ICP-MS			0.001 mg/L (ppm)		Ti I
Drinking Water Unpreserved	EPA 200.9		Graphite Furnace AA		e AA	0.003 mg/L (ppm)		
Preserved with HNO₃ pH < 2	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		e AA	3.6 µg/filter		
Other:								
Name of Sampler: Rick Mass	OU	Signa	ture of S	ampler:	RR	alsto	~	
Sample # Locati			Volun	ne/Area		-	Date/Time S	Sampled
46158-834-1 Roon 3 1	OUR FLAME	white					5/31/201	8
445- 14- L-2 Boom 4	DRYWALL	Crea					4	
Client Sample #s -				Total	# of Sa	mples	:	
Relinquished (Client): Ruham	I Rab to Date:	5/	31/201	18	Time:	-		
Received (Lab):				em 5				
Comments:	Date:	4	1-110					
Bil To: All-Phase Environmental Consultants, Inc, 721 West S Attention; Brandice Eslinger Phone: 719-240-4690 Email: bra		n Purchase Orde	r.					

OrderID: 201805983



3.

LEAD (Pb) CHAIN OF CUSTODY EMSL ORDER ID (Lab Use Only):

201805983

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 Sample
615-R4-L-3	ROOMY DEYWAN - white		5/31/2018
45-R4-L-4		lila	1
15. Rb.Le 5	Roumt - paywall - Peach		
15- RC-L- 6	C.C.		
15- EX-L		Sample State of the State of th	
(15.8x-L_ 8	3 Extenior - © " wood	BEOWP	*
		_ P.E.	70.00
		The state of the state of	
			The state of the s
omments/Spe	cial Instructions:		

Page 2 of 2 pages

Controlled Document — COC-25 Load (Pb) - R&- 7/19/2017



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: CustomerID:

ProjectID:

201805971 ALLP62

CustomerID: ALLP6
CustomerPO:

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

Phone: (719) 225-6953 Fax: (719) 542-2807 Received: 06/04/18 10:20 AM

Collected:

Project: 18-3066-C70-L-AP-77

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

Client Sample Description	on Lab ID	Collected	Analyzed	Lead Concentration
4615F-T-1	201805971-0001	1	6/7/2018	<0.40 mg/L
	Site: TCLP			

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 06/07/2018 12:44:51

OrderID: 201805971



AP77

Lead (Pb) Chain of Custody EMSL Order ID (Lab Use Only):

201805971

EMSL Analytical, Inc. 200 Route 130 North

Cinnaminson, NJ 08077

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

Company : All-Phase Enviror	EMSL-Bill to: ☑ Same ☐ Different If Bill to is Different note instructions in Comments**										
Street: 721 West 9th Street			TH					arty			
City: Pueblo					Third Party Billing requires written authorization from third party Zip/Postal Code: 81003 Country: US						
Report To (Name): Richard R			Telephone #: 7192256953								
Email Address: rick@allphas	710 710 0007										
	Fax #: 719-542-2807 Purchase Order:										
Project Name/Number: 18-300		-AP- 17 /		rovide Results:		✓ Ema					
U.S. State Samples Taken: CC				les: Comme		ble 🔲 R	lesidential/Tax	Exempt			
Панал Понал		urnaround Time (TA					West I	0 14/1-			
3 Hour 6 Hour	_	Hour 48 Hour			96 Hour		Week	2 Week			
Matrix	sis complete	Method	oes renns a	Instrum			rting Limit	Check			
Chips % by wt. mg/cm² p	pm (mg/kg)	SW846-70008	В	Flame Atomic A	Absorption	0	0.01%				
Air		NIOSH 7082 NIOSH 7105		Flame Atomic Absorption Graphite Furnace AA		4	μg/filter	Ħ			
						0.03 µg/filter					
		NIOSH 7300M/NIOSH 7303		ICP-OES		0.5 µg/filter					
Wipe* ASTM		SW846-7000B		Flame Atomic Absorption			μg/wipe				
non ASTM *if no box checked, non-ASTM Wipe assumed		SW846-6010B			1.0 μg/wipe						
TCLP		SW846-1311/7000B/S	SM 3111B	Flame Atomic A	Absorption	0.4 n	ng/L (ppm)				
		SW846-1311/SW846-6			0.1 mg/L (ppm)						
SPLP		SW846-1312/7000B/S	SM 3111B	Flame Atomic A	Absorption		ng/L (ppm)				
SFLF		SW846-1312/SW846-6	010B or C	ICP-OES		0.1 mg/L (ppm)					
TTLC		22 CCR App. II, 7000		Flame Atomic Absorption		40 mg/kg (ppm)					
1120		22 CCR App. II, SW846-6010B or 0		ICP-OES		2 mg/kg (ppm)					
STLC		22 CCR App. II, 7000		Flame Atomic Absorption		0.4 mg/L (ppm)					
		22 CCR App. II, SW846-6		ICP-OE			ng/L (ppm)				
Soil		SW846-7000E			40 mg/kg (ppm) 2 mg/kg (ppm)						
		SW846-6010B or C		ICP-OES							
Wastewater Unpreserved		SM3111B/SW846-7000B		Flame Atomic Absorption		0.4 mg/L (ppm)					
Preserved with HNO ₃ pH < 2		EPA 200.9		Graphite Furnace AA		0.003 mg/L (ppm)					
37		EPA 200.7		ICP-OES		0.020 mg/L (ppm)		-			
Drinking Water Unpreserved		EPA 200.8		ICP-MS		0.001 mg/L (ppm)					
Preserved with HNO ₃ pH < 2		EPA 200.9 EPA 200.5		Graphite Furnace AA ICP-OES		0.003 mg/L (ppm)		H			
				ICP-OES		0.003 mg/L (ppm)		_=			
TSP/SPM Filter		40 CFR Part 5 40 CFR Part 5		Graphite Furr		•	µg/filter µg/filter				
Other:		40 OF RT art 0	,,,	Grapinic r un	lace /VI	3.0	pgrinter				
Name of Sampler: Lich	- Por	521	Signa	ture of Sampl	er: 7	Ralt	4				
Sample #	Locati	on	Joigine	Volume/A		1	Date/Time S	Sampled			
GISF-T-1 TCLP			APR	1.							
Client Sample #s				То	tal # of Sa	amples:					
Relinquished (Client):	Real	Date:	cola	1							
Received (Lab):		Date:				Ems					
Comments:	June	Date.		e (do	Time.						
BillTo: All-Phase Environmental Consultants, Attention: Brandice Eslinger Phone: 719-240-			n Purchase Orde	r.							



6b. Asbestos Abatement Project Design



Industrial Hygiene, Safety & Environmental Services

(Version 1, 10/24/18)

ASBESTOS ABATEMENT PROJECT DESIGN

SINGLE FAMILY RESIDENCE ABATEMENT PROJECT

4615 FILLMORE STREET DENVER, COLORADO 80216

PREPARED FOR:

JKS Industries, LLC 747 Sheridan Blvd., #9A Lakewood, Colorado 80214

October 24, 2018

FEI Project Number: AS18207-9

Prepared By: Nicolas D. Vasquez, CDPHE Cert #22566 Foothills Environmental

> Foothills Environmental, Inc. 11099 W. 8th Ave. Lakewood, Colorado 80215 Phone: 303-232-2660

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APPENDIX A – Drawings

APPENDIX B – Certificates

1.0 Scope of Work

1.1 Materials Identified for Removal

The General Abatement Contractor (GAC) will be performing the removal of asbestos containing material(s) as indicated in the table below. This information was gathered from the inspection report prepared by All-Phase Environmental Consultants (APEC) dated June 27, 2018. A copy of the Inspection and this Project Design will be available onsite during the course of the project. The total amount of actual asbestos containing material to be removed is estimated to be greater than 160 sf/260 lf or the equivalent of a 55 gallon drum.

The following ACM was identified for removal prior to demolition:

	TEXTURE						(Sq. ft.)
E MC	3% CHRYSOTILE JOINT COMPOUND 3% CHRYSOTILE	PLM	Good			RACM	
OM 2	TEXTURE 2% CHRYSOTILE	PLM	Good			RACM	1
DM 4	TEXTURE 3% CHRYSOTILE JOINT COMPOUND 3% CHRYSOTILE	PLM	Good	LIGHT TEXTURED DRYWALL	CEILINGS OF ROOM R 2,3,4,5,6,7	RACM	2,182
OM 4	TEXTURE 2% CHRYSOTILE	PLM	Good		HALLWAY	RACM	
OM 5	TEXTURE	PLM	Good	11		RACM	7
LWAY	TEXTURE	PLM	Good			RACM	1
OM 6	TEXTURE	PLM	Good	1		RACM	1
DSET 3	400	es 4615F-R3-T	D1A. 4615F-R	2-TD1B. 4615F-R4-TD	1C. 4615F-R4-TD1D. 46	15F-R5-TD1E 46	15F-H-TD1F &
OM 7		3 (16/3) (16-1		4615F-R6-TD1G			
	TEXTURE 2% CHRYSOTILE	PLM	Good		CEILING OF ROOM I	RACM	
OM 1	TEXTURE <1% CHRYSOTILE JOINT COMPOUND <1% CHRYSOTILE	PLM	Good	SPRAY TEXTURED DRYWALL		RACM	200
	TEXTURE 2% CHRYSOTILE	PLM	Good			RACM	
	OM 4 OM 5 LVVAY OM 6 SET 3	JOINT COMPOUND 3% CHRYSOTILE TEXTURE 2% CHRYSOTILE TEXTURE 3% CHRYSOTILE JOINT COMPOUND 3% CHRYSOTILE TEXTURE 2% CHRYSOTILE TEXTURE 1% CHRYSOTILE TEXTURE TEXTURE 1% CHRYSOTILE TEXTURE	JOINT COMPOUND 3% CHRYSOTILE TEXTURE 2% CHRYSOTILE JOINT COMPOUND 3% CHRYSOTILE JOINT COMPOUND 3% CHRYSOTILE PLM TEXTURE 2% CHRYSOTILE PLM TEXTURE 2% CHRYSOTILE PLM TEXTURE 2% CHRYSOTILE PLM TEXTURE 2% CHRYSOTILE PLM TEXTURE 2% CHRYSOTILE PLM TEXTURE 2% CHRYSOTILE PLM TEXTURE 2% CHRYSOTILE PLM TEXTURE 2% CHRYSOTILE PLM TEXTURE 2% CHRYSOTILE PLM TEXTURE 2% CHRYSOTILE PLM TEXTURE 2% CHRYSOTILE PLM TEXTURE 2% CHRYSOTILE PLM TEXTURE 2% CHRYSOTILE PLM TEXTURE 2% CHRYSOTILE PLM TEXTURE 2% CHRYSOTILE PLM TEXTURE 2% CHRYSOTILE PLM TEXTURE 2% CHRYSOTILE PLM TEXTURE 2% CHRYSOTILE PLM TEXTURE TEXTURE TEXTURE TEXTURE TEXTURE TEXTURE TEXTURE TEXTURE	JOINT COMPOUND 3% CHRYSOTILE TEXTURE 2% CHRYSOTILE JOINT COMPOUND 3% CHRYSOTILE JOINT COMPOUND 3% CHRYSOTILE JOINT COMPOUND 3% CHRYSOTILE PLM Good TEXTURE 2% CHRYSOTILE TEXTURE TE	SOM 2	JOINT COMPOUND 3% CHRYSOTILE PLM Good TEXTURE 2% CHRYSOTILE JOINT COMPOUND 3% CHRYSOTILE JOINT COMPOUND 3% CHRYSOTILE PLM Good TEXTURE 2% CHRYSOTILE PLM Good PLM Good TEXTURE 2% CHRYSOTILE PLM Good PLM Good TEXTURE 2% CHRYSOTILE PLM Good TEXTURE CHRYSOTILE CHRYSOTILE TEXTURE CHRYSOTILE TEXTURE CHRYSOTILE TEXTURE CHRYSOTILE TEXTURE T	JOINT COMPOUND 3% CHRYSOTILE PLM Good TEXTURE 2% CHRYSOTILE JOINT COMPOUND 3% CHRYSOTILE JOINT COMPOUND 3% CHRYSOTILE PLM Good TEXTURE 2% CHRYSOTILE PLM Good TEXTURE 2% CHRYSOTILE PLM Good RACM CHRYSOTILE PLM Good RACM CHRYSOTILE PLM Good RACM CHRYSOTILE PLM Good RACM CHRYSOTILE PLM Good CEILING OF ROOM 1 RACM RACM RACM RACM RACM RACM RACM RACM CHRYSOTILE RACM R

Regulatory asbestos abatement notification and permit from the Colorado Department of Public Health and Environment (CDPHE) will be required for this project.

1.2 Schedule

The following schedule has been proposed for the project. Phasing and dates are included in Section 1.3, Sequence of Work.

Project Start Date: October 24, 2018

Project Completion Date: November 6, 2018

1.3 Sequence of Work

The following phasing plan has been developed for the abatement. This plan was submitted with the permit application which corresponds to the drawing attached in Appendix A.

• **Phase 1** Start: October 24, 2018

Finish: November 6, 2018

Abatement of textured drywall in all designated areas will be completed in one full containment.

1.4 Discussion of Removal Methods

All friable and non-friable asbestos-containing materials that will become friable, as well as asbestos contaminated materials that are located in the work area shall be removed from their installed locations inside a full containment and by utilizing wet removal methods and a combination of handheld tools.

Waste generated during removal will be gathered placed into 2 6ml thick properly labeled disposal bags while wet. Work will be accomplished using CDPHE certified supervisors and workers.

Work completion includes preparation of the work area, pre-clean activities, removal and disposal of all specified ACM from the premises, final cleaning of the work area, final visual inspection, lockdown, and final clearance monitoring. The project will be considered complete when all containments and work areas have passed clearance criteria.

The following types of containments will be used during the project followed by procedures for setup and dismantling:

Full Containments

The GAC shall conduct abatement activities in accordance with CDPHE Regulation No. 8 in the following mandatory sequence for full containment:

- 1) Install critical barriers (pursuant to subsection III.I, Critical Barrier Installation)
- 2) Establish negative pressure (pursuant to Regulation No. 8 subsection III.J, Air Cleaning and Negative Pressure Requirements)

Note: The removal of non-ACM building materials and components may only take place after negative air pressure is established in the containment work area(s).

- 3) Construct the decontamination area (pursuant to subsection III.K, Decontamination Area)
- 4) Pre-clean surfaces (pursuant to subsection III.L, Pre-cleaning of Surfaces)
- 5) Cover fixed objects (pursuant to subsection III.M, Covering Fixed Objects)
- 6) Construct the containment (pursuant to subsection III.N, Containment Components)
- 7) Conduct abatement (pursuant to subsection III.O, Abatement Methods)

- 8) Conduct final visual inspection (pursuant to paragraph III.P.1., Final Visual Inspection)
- 9) Conduct final clearance air monitoring (pursuant to paragraph III.P.3., Final Clearance Air Monitoring)
- 10) Conduct the tear-down (pursuant to subsection III.Q., Tear-down)

All waste from the project will be packaged in approved containers and transferred to an approved landfill for disposal. After successful air clearance of each containment the containment can be removed and all non-reusable containment materials will be packaged for disposal. Only visual clearance will be required to verify complete removal of window glazing compound.

2.0 Special Conditions

2.1 Regulatory Notification and Variances

The General Abatement Contractor, (GAC) will make any required notifications to Federal and State entities regulating their work as required by applicable rules, regulations, and standards. This includes, but is not limited, to the National Emission Standards for Hazardous Air Pollutants (NESHAP) notification [notice provided to the Colorado Department of Public Health and Environment (CDPHE) with permit application]. *The abatement contractor is responsible for quantifying amounts of ACM necessary to properly complete the project.*

2.2 Project Manager Requirement

Colorado Regulation No. 8 requires a Project Manager on all asbestos abatement projects in which the amount of friable ACM to be abated exceeds 1,000 linear feet on pipes, or 3,000 square feet on other surfaces. A Project Manager may be required for this project, unless a waiver is requested and granted by CDPHE.

2.3 Facility Occupancy Status

During abatement activities the building will not be occupied by the former tenants but may be visited by owner personnel as well as other tradesmen.

2.4 Site Security

Entry to the regulated asbestos work area is by permission only to authorized personnel. The perimeter of the work area may be monitored during abatement by a certified Air Monitoring Specialist (AMS). Only asbestos certified/licensed personnel employed by the GAC or federal or state regulatory agency personnel and the AMS will be allowed access to the work area. A logbook will be maintained at the entrance to the work area. Everyone who enters the work area must record name, affiliation, time in and time out for each entry.

2.5 Field Changes

Minor modifications to the project design are allowed. Minor changes include but are not limited to, relocation of negative air machines, decontamination facility and waste load-out. Any modifications to the project design must be approved by the Project Designer before the changes are made.

3.0 Project Design

3.1 Standards and Primacy of Rules

The following standards will be adopted as they pertain to asbestos abatement. In any instance where adopted standards are in conflict with each other, the most stringent shall apply.

- 1) Colorado Department of Public Health and Environment Regulation #8
- 2) 5CCR 1000-10 Part B asbestos handling, transportation, and storage
- 3) 29 CFR 1926.1101, the OSHA Construction Industry Asbestos Standard
- 4) 40 CFR 61 Subpart M, EPA's NESHAP Asbestos Standard
- 5) NIOSH/OSHA/EPA –"Occupational; Safety & Health Guidance Manual for Hazardous Waste Site Activities", Section 8-20; Heat Stress and Other Physiological Factors.
- 6) All other applicable laws, rules, and regulations, including but not limited to those relating to:
- 7 Workers' Compensation Insurance;
- 8 Liability Insurance
- 9 All contract specifications and documentation

3.2 Site Access

The GAC has access to the facility for the purpose of abatement from 6:30 AM to 5:00 PM until project completion which is projected to be 11/6/18.

3.3 Utilities Service

Access to electrical power, water and sanitary sewer is not available inside the facility. The contractor will provide utility services during the duration of the project. Any temporary utility lines running to the regulated asbestos work area shall be adequately protected from damage and abrasion from vehicle and foot traffic. All waste water shall be filtered to five (5) microns prior to discharge into a sanitary sewer.

GAC will have to provide temporary restrooms located close to the project site at approved locations for the duration of the project (to be placed in a protected area if possible).

3.4 Decontamination Facilities & Load-Out Facilities

Personnel decontamination facilities shall consist of an Equipment (Dirty) Room, Shower, and a clean room constructed in accordance with Regulation #8 III.K Decontamination Unit. If waste load out is by direct load out, it shall consist of a direct waste loadout configuration that is currently approved by CDPHE (Configuration diagram approved by CDPHE shall be attached to this Project Design if used).

All load-out and disposal procedures shall be in accordance with applicable federal, state, and local regulations and project specifications.

3.5 Critical Barriers

All critical barriers will consist of a minimum 1 layer of 6mil poly critical barrier on all, openings, and vents.

3.6 Negative Pressure Ventilation

The GAC shall maintain a negative pressure differential of -0.02 inches of water in the work areas in accordance with Regulation #8 III.J Air cleaning and Negative Pressure Requirements, until final visual and clearance air monitoring complete. The calculations in the next section take into account at least 1 backup Negative Air Machine (NAM) with HEPA filtration. The contractor will also be using generators for maintaining electrical supply. In the case of generator failure, all workers will leave the work area and seal the containment. A replacement generator will be available onsite or within an hour's time of the project for use in case of failure. Work will resume when negative pressure is restored. If negative pressure is not restored within an hour's time alternate means of electrical supply will be sought. If no supply is available, contractor will contact CDPHE and follow directions for spill response.

3.7 Air Exchange Calculations

AIR CHANGE CALCULATIONS for a 2000 cfm negative air machine (NAM)

AIR CHANGESAWhere:
$$A = Work$$
 area volume in cubic feet $(l \times w \times h)$ $B \times C$ $B = 15$ minutes $B \times C$ $C = Estimated$ rated capacity of NAM $(1,500 \text{ cfm})$

Phase 1 – Textured Drywall (Full Containment)

```
A = 24 \times 30 \times 15 = 10800 cubic feet 
 B \times C = 22,500 = 0.48 1 NAM required 2 NAM's recommended
```

3.8 Containment Construction

Containments for the asbestos removal shall be constructed in accordance with CDPHE Regulation 8 and this project design. Danger signs will be posted at ingress locations, and approaches to locations, where airborne concentrations of asbestos exceed or can reasonably be expected to exceed the PEL. Signs will be posted at a distance sufficiently far from the work area to permit an employee to read the sign and take the necessary protective measures to avoid exposure. Additional signs may need to be posted following construction of workplace containment barriers.

Danger signs will include the following wording:

DANGER ASBESTOS CANCER AND LUNG DISEASE HAZARD AUTHORIZED PERSONNEL ONLY RESPIRATORS AND PROTECTIVE CLOTHING ARE REQUIRED IN THIS AREA

3.9 Set up of work areas

Full Containment Components

2"x 4"s wood studding can be used as temporary framing and 4'x 8'x1/2" plywood sheets to support any exterior containment systems; this may include tie wires also where needed. 1 layer of 10 mil re-enforced poly sheeting will be utilized for any exterior critical barriers, negative air machines will be installed once the poly sheeting is installed. A full 3 stage decontamination unit equipped with hot and cold water, shampoo, disposable towels, and a 2 stage water filtration unit filter all water to 5 micron, prior to being discharged into the sanitary sewer system. Two layers of 4 mil poly sheeting will be installed within the 10 mill critical poly sheeting barriers as exterior walls and ceiling if needed. 2 layers of 6 mill poly sheeting will be placed on floors. View ports will be installed where appropriate with a minimum of 12" x 12" PlexiTM glass and or exterior windows.

Air flow testing utilizing smoke tubes will be performed to validate air flow direction and air exchanges.

Pre-Cleaning Activities

Pre-cleaning activities will be performed in accordance with CDPHE Regulation 8. All workers performing pre-cleaning must utilize HEPA equipped vacuums and wet methods. Any prepping activities that will contact non-friable ACM, or be within arms' reach of friable ACM must be accomplished by workers utilizing PPE.

3.10 Asbestos Removal

Removal of materials containing asbestos and contaminated with asbestos shall be performed in accordance with the Colorado Department of Public Health and Environment Regulation 8 III, Abatement, Renovation and Demolition Projects and this project design.

3.11 Asbestos Spill Response

In the event of a spill or a breach of the regulated work area containment, follow procedures in Section III.T. of Regulation No. 8, which includes cleaning the area outside the regulated work area. Visible debris shall be cleaned utilizing <u>HEPA vacuuming</u> and wet wiping plus an additional 10 horizontal feet beyond the visible debris. All filters, mop heads, and cloths utilized during clean-up activities shall disposed of as asbestos contaminated waste in leak tight containers.

The GAC shall have available, equipment and supplies (HEPA filtered vacuum, airless sprayer with amended water, mops, rags, polyethylene sheeting, duct tape, caution tape...) for spill response in the event of accidental spill of materials containing asbestos.

In the event of an asbestos spill outside the work area containment the GAC shall:

- Make appropriate notices based on size of spill.
- Immediately wet the spilled material and surrounding area with the airless sprayer.
- Restrict access to the spill area and post warning signs to prevent entry to the area by persons other than those necessary to respond to the incident.
- Seal all openings between the contaminated and uncontaminated areas as directed by the asbestos consultant. This is to be accomplished by using polyethylene sheeting and tape.
- HEPA vacuum and wet clean all surfaces in the contaminated area.

Following completion of the above, the on sight Air Monitoring Specialist shall conduct a visual assessment of the spill area to confirm adequate cleaning has been accomplished by the GAC.

3.12 Asbestos Waste Transportation, Storage, and Disposal

All ACM waste must be wrapped in two layers of 6 mil polyethylene sheeting or double-bagged in 6 mil polyethylene bags labeled with the appropriate OSHA label for asbestos and must also bear the generator label as required by EPA's 40 CFR 61 Subpart M NESHAP Standard. Containerizing and transport of asbestos wastes shall be in accordance with applicable federal and state regulations.

The existing installed building finishes, hardscaping and landscaping shall be protected from damage by the GAC, until completion of all works.

Safety scaffolding, rubbish skips, access ladders etc. shall be approved by the client and in accordance with the current Health and Safety regulations.

GAC workers will not drag or drop packaged waste. All waste equipment and materials will be hand carried, or transported in wheeled carts to waste transport vehicles.

All packaged asbestos waste shall be directly loaded from the work area onto a 6mil polyethylene lined enclosed truck or dumpster container for disposal. No waste material may be temporally stored in the building or the work area containment.

Waste Disposal:

All waste containers shall be transported from the permitted work areas to an approved disposal land fill by the GAC (Denver Aurora Disposal Site).

Waste Transporter:

By 5280 Waste Solutions.

3.13 Final Clean/Final Visual Inspection Criteria

All interior surfaces of the work area will be free of visible dust and debris. The work area must pass a final visual inspection by a CDPHE Certified Air Monitoring Specialist (AMS) leaving only critical barriers in place.

3.14 Final Air Clearance Monitoring

Clearance criteria for this containment shall be in accordance with CDPHE Regulation #8, Section III.P

For each work area within the project	State-Permitted Project in Non-School Building			
where the amount of ACM is:	Minimum # of samples to clear each of the following:			
	Work Area	Project		
Less than 3 square feet/3 linear feet	1	5		
From 3 square feet/3 linear feet up to 32 square feet/50 linear feet/volume equivalent of a 55-gallon drum	2	5		
Greater than 32 square feet/50 linear feet/volume equivalent of a 55-gallon drum up to 160 square feet/260 linear feet/volume equivalent of a 55-gallon drum	5	5		
Greater than 160 square feet/260 linear feet/volume equivalent of a 55- gallon drum	5	5		

Upon notification that clearance monitoring levels are acceptable, the GAC may remove critical barriers and demobilize from the work area. If any samples collected for the final air test exceeds (0.01 fibers per cubic centimeter, 0.01 f/cm³ for PCM using the NIOSH Method 7400 or 70 structures per square millimeter (70 s/mm²) as analyzed by the TEM method in 40 C.F.R. Part 763 Appendix A to Subpart E (EPA 1995) the entire work area shall be re-cleaned immediately upon receipt of air test results.

Any failed abatement work area shall be re-tested and the costs associated for additional Final Clearance Air Monitoring shall be borne by the GAC at no additional cost to the Owner.

3.15 Personal Exposure Air Monitoring

The GAC shall be responsible for conducting personal exposure air-monitoring as applicable in accordance with OSHA 29 CFR 1926.1101 Asbestos Construction Standard. Contractor to supply results to personnel and will post results onsite.

3.16 Electrical Hazards Control

All electrical power utilized during the project will be on ground fault circuit interrupters (GFCI) whose power source is located outside the work area.

3.17 Emergency Egress and Fire Protection

The abatement contractor shall abide by the emergency egress rules for the facility. All contractor personnel shall receive emergency procedure orientation specific to the facility prior to initiation of abatement activities.

3.18 Fire Protection Plan

- 1. No items capable of initiating or sustaining combustion (lighters, matches, torches, etc.) will be allowed in containment.
- 2. The use of flammable liquids is not permitted.
- 3. Any electricity utilized must be on Ground Fault Circuit Interrupters (GFCI).
- 4. A minimum of one, 2A: 20B: C rated fire extinguishers will be maintained on-site. There must be available at least one 2A: 20B: C rated fire extinguisher within a maximum travel distance of 10 feet from any point in the work area.

- 5. Workers will be trained in the use of fire extinguishers, emergency egress plans, basic fire safety, and emergency reporting procedures prior to work beginning.
- 6. All emergency exits will be labeled as such with tools available for breaching poly and keys in door locks where necessary.
- 7. The Contractor must implement an emergency action and fire prevention plan in accordance with 29 CFR 1910.38 Employee emergency plans and fire prevention plans.

3.19 Fall Protection

The GAC shall provide proper fall protection and training for their employees when working above 6 feet of height in accordance with Occupational Safety and Health Administration 29 CFR Part 1926 Subpart M Fall Protection.

3.20 Respiratory Protection / PPE

The GAC shall provide proper respiratory protection for their employees with NIOSH approved HEPA filters during all pre-clean, abatement removal, waste load out procedures and during waste lift operations for effected employees. The GAC shall provide proof of medical fitness to wear respiratory protection and current fit testing documentation for all employees.

3.21 Work Area Protection

The GAC shall repair or replace, to the Owner's satisfaction, any damage caused by the GAC or GAC subcontractors, to existing finishes, landscaping, or other building components.

3.22 Additional PPE

- Hooded Tyvek suits
- Safety Glasses with side shields (exception not required when wearing a full face respirator).
- Leather Gloves
- Safety toe boots
- Fall Protection as required.
- PPE per MSDS / SDS requirements.

3.23 Pre-Abatement Document Submittal

The GAC shall provide the following submittals to the Owner's Asbestos Competent Person / Safety Department for approval prior to site mobilization.

- ✓ Copies of all worker AHERA / STATE certifications.
- ✓ Copies of all worker asbestos medical evaluations.
- ✓ Copies of all worker respirator fit tests.
- Copies of MSDS for all chemicals (spray-glue, encapsulant, surfactant etc.) that will be used
- ✓ Asbestos waste receipt / total.

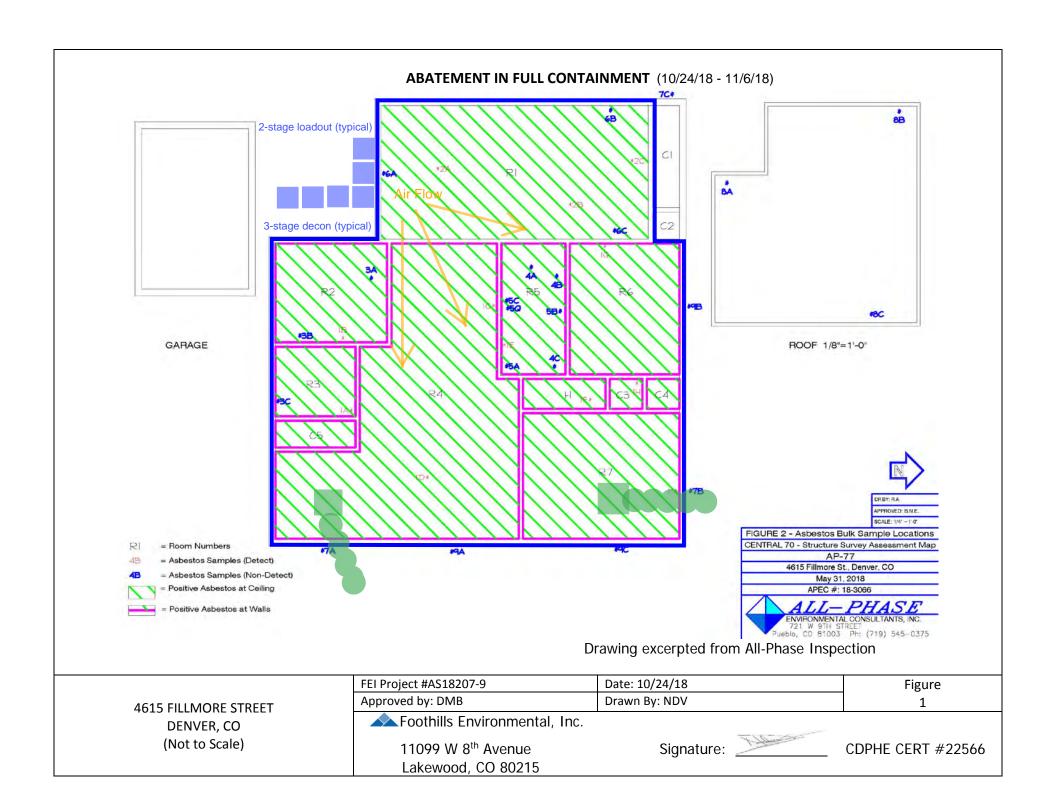
Completed by:

Nicolas D. Vasquez CDPHE Asbestos Project Designer Certificate # 22566

Foothills Environmental Asbestos Consulting Firm CDPHE Registration # 14925

Appendix A

Drawings



Appendix B

Certificates





Colorado Department of Public Health and Environment

ASBESTOS CERTIFICATION*

This certifies that

Nicolas Vasquez

Certification No.: 22566

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:

Project Designer*

Issued:

February 08, 2018

Expires:

February 08, 2019

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

Authorized APCD Representative



CHC Training Nationwide Training & Certification Experts

www.trainingchc.com 303.412.6360 (855) 60.CERTIFY 1775 West 55th Avenue Denver, CO 80221, United States of America

CERTIFICATE OF ACHIEVEMENT

This certificate is awarded to:

NICOLAS VASQUEZ

In recognition of satisfactory completion of the EPA-approved annual asbestos refresher training course under section 206 of the Toxic Substance Control Act (TSCA) and Colorado Regulation No. 8 entitled

PROJECT DESIGNER

COURSE DATE:

EXPIRATION DATE:

Course Hours:

DECEMBER 21, 2017
DECEMBER 21, 2018

8.0

Verify Credential



Danaya N. Benedetto

Co-Founder & CEO Training Program Manager

Credential License ID: 11084750



Frank Hulce

Instructor

CHC Training Certificate No. R17-2200-APD-CO

Visit our Website





6c. Pre-Demolition Engineering Survey



Pre-Demolition Survey And General Demolition Plan For 4615 Fillmore Street Denver, CO 80216



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

July 2, 2018 Project No: 180113



July 2, 2018

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

Re:

4615 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 two buildings on the property. The front elevation of the residence faces east and is parallel to Fillmore Street. There is a detached garage at the southwest corner 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:

- To give an assessment of the current condition of the structures 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.
 - <u>Project Specific Applicability:</u> 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.
 - b. <u>OSHA 1926.85(b):</u> 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.
 - <u>Project Specific Applicability:</u> 4615 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. <u>OSHA 1926.850(c):</u> 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.

<u>Project Specific Applicability:</u> 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. <u>OSHA 1926.850(d):</u> If it is necessary to maintain any power, water or other utilities during demolition, such lines shall be temporarily relocated, as necessary, and protected.

<u>Project Specific Applicability:</u> The demolition of 4615 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.

<u>Project Specific Applicability:</u> All types of hazardous chemicals, gases, explosives, flammable materials, or other dangerous substances shall be removed from the structure prior to demolition as part of the pre cleaning phase during the environmental remediation. All materials are to be documented, manifested, and included in the environmental close out documents.

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

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

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

<u>Project Specific Applicability:</u> 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.

<u>Project Specific Applicability:</u> 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.

<u>Project Specific Applicability:</u> 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.

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



j. <u>1926.850(k):</u> 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.

<u>Project Specific Applicability:</u> 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 residence is a single-story residential structure and is assumed to be founded on a spread footings. The structure has a crawlspace with concrete foundation walls. The residence is approximately 32'x33' with the long direction oriented east to west. The wall and roof framing is assumed to be composed of dimension lumber framing. The detached garage is approximately 12'x20' with the long direction oriented east to west. It is a wood-framed structure on a concrete foundation with a slab on grade floor.

Existing Condition Observation

During our site visit we made visual observations around the building perimeters only. The structures were partially exposed in some areas. All of the existing structural systems that were exposed to view appeared to be in good condition. We saw no evidence of noteworthy structural distress. It is our professional opinion that the possibility of un-planned collapse of any portion of the existing structures is very low. Workers may be allowed in the buildings to prepare them for demolition with such activities as removal of materials or other work that does not involve activities that affect existing structural systems.

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 into the crawlspace starting at either the north or south sides of the building and proceeding thru the length of the building in the north/south direction. The detached garage shall be demolished starting from the west side and proceeding to the east. The alley will require temporary closure during demolition procedures to prevent public endangerment. The south side of the garage is in close proximity to the south property line. The property located to the south is also scheduled for demolition. 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



7. Asbestos Clearance Report



November 9, 2018

Interior Air Monitoring Clearance (Textured Drywall)

Re: 4615 Fillmore Street Denver, Colorado 80216

To Whom It May Concern:

On, November 8, 2018, Richard L. Ralston, Colorado Certified Asbestos Building Inspector and Colorado Air Monitoring Specialist with All-Phase Environmental Consultants, Inc. (APEC), conducted Air Monitoring clearances at the above referenced Subject Property. A visual inspection and air samples were collected inside the abatement containment to ensure that the asbestos fiber counts are below the regulated standard to guarantee this area is safe to re-occupy.

The Containment Air clearance consisted of five (5) 0.08um sampling cassettes, five (5) 1-16 liter per minute pumps, along with six (4) 20-inch box fans and a one-horse power leave blower used to perform an aggressive clearance of the containment. All-Phase Environmental is an approved and certified Colorado Department of Public Health and Environment asbestos laboratory.

Microscopic inspection of the above mentioned five samples were conducted in the All Phase Environmental PCM laboratory. This inspection verified that <u>ALL</u> the samples taken were at or below 0.01 fiber per cubic centimeter as required by the Colorado Department of Public Health and Environmental standard for a safe room or area. See Lab analytical results attached to this document.

Based on the visual inspection and the analytical results, this area is considered safe to re-occupy.

APEC will not be held responsible for the mishandling of the information contained herein, and/or any items found after November 8, 2018

i icase ic

Please feel free to call with any questions and or concerns.

Sincerely,

Richard L. Ralston

Colorado Certified Asbestos Inspector - 4261

Colorado Certified AMS - 4261

Kuhand Kalston



APEC Project No.:

Customer ID:

721 W. 9th Street Pueblo, CO 81003

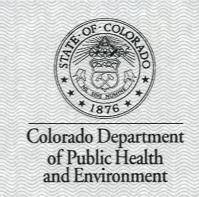
http://www.allphaseenvironmental.com

AIHA 214132/CDPHE AL-15979

	<u> </u>						
Attn:			Phone:				
			Email:				
			Received:				
			Analysis Date:				
Customer Project	Ref.:		Sample Date:				
Sample ID	Location	Volume (Liters)	Fibers	Fields	Fibers/mm ²	Fibers/cc	Type of Sample
The results reported h	nave been blank corrected	as applicable.					
	Contrast by Phase Contrac		NIOSH 7400 Method,	Revision 3, Iss	ue 2, 8/15/94		
۸ م اد . مخار - ۱			Kuthan	e Ka	lator		
Analyst(s)		_	Richard Ralston			1	
			Michard Maiston	Laboratory	DIECTOI		

or other approved signatory

samples were anlayzed in accordance with NIOSH 7400 or OSHA ID-160 Methods by analysts successfully participating in the AIHA PAT program. APEC maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by APEC. APEC bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. The Client assumes full and complete responsibility for all uses and/or application sof this report. APEC makes no guarantee as to the nature or accuracy of sample collection. APEC is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. Results have been blank corrected as applicable. Samples received in good condition unless otherwise noted. Samples analyzed by APEC, Pueblo, CO.



ASBESTOS LABORATORY

This certifies that

All Phase Environmental Consultants, Inc.

Registration No.: AL - 24462

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

Issued: April 20, 2018 Expires: April 20, 2019

Authorized APCD Representative

SEAL



8. Materials Summary



December 26, 2018

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

RE: AP-77 4615 Fillmore St. - Summary of Removed Materials

Dear Jenn,

Below is a summary of the materials removed from 4615 Fillmore St. For more details regarding the location of the Asbestos Containing Materials (ACM) and the asbestos content please refer to the Table 3-1A of the All Phase Environmental SSAR (Page 17).

Material Removed	Quantity				
Asbestos Containing Textured Drywall	2382 SF				
Regulated Building Materials	2 Lightbulbs and 1 Fridge				
Clean Demolition Debris	302,400 lbs				
Recycled Concrete	48,600 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



9. Waste Manifests



9a. Asbestos Waste Manifests

	ASBESTOS NE	SHAP W	STE SI	IIPM	FNT I	RECO	ngn	C
À	1. Generator ID Number		Emergency Respons	Phone			er 2234	363
	5. Generator's Name and Mailing Address COLORADO DEPARTMENT OF TRANS 747 SHERIDAN BLVD UNIT 9A LAKEWOOD CO 80214 Generator's Phone:	PORTATION (303) 512-5900	Generator's Project Ad AP-77 4615 F:11	dress (if different throne St.	ent than mailing			
	6. Transporter 1: Complete Company Name and Address		Certoer	0 30016		Tran	sporter Phone	
ı	5280 WAST & SOUT	10H 605	W. 6240	6		1		
	7. Transporter 2: Complete Company Name and Address		1			Tran	sporter Phone	
۱	8. Designated Disposal Facility Name and Site Address DENVER ARAPAHOE DISPOSAL				Facility's Ph	ione:		
	3500 S GUN CLUB RD AURORA CO 80018	(720) 876-262	0		1			
	9. Waste Shipping Name, Description, & Profile Number		10. Cont	ainers	11. Total	12. Unit		
	1.		No.	Туре	Quantity	Wt./Vol.		
GENERATOR	RQ, NA 2212, Asbestos, 9,PG III	12677	750D		28 yd		NONE	
GEN	2.							
	13. Regulatory Agency: Colorado Department of Public Heal 4300 Cherry Creek Drive South Denver, CO 80222-1530	ent	CH	Emergency Notification: CHEMTREC (800) 424-9300 24-hour Toll Free Number				
	14. Bill to & Account Number:							
	15. Contractor/Generator Certification: I hereby declare that the contents of this consignment are fu packaged, marked and labeled/ placarded, and are in all resp and state governmental regulations. I hereby certify that the above described waste is not a hazar quantities of PCB's or radioactive materials.	lly and accurately de ects in proper condit	scribed above by ion for transporta	tion and dis	sposal accor	ding to app	licable national	ed
	Generator's/Offeror's Printed/Typed Name	Signa	ture				Month Da	y Year
٧	MEGAN WOOD		mull	cho:	oehall T		11 10	5,18
ď	16. Transporter Acknowledgement of Receipt of Materials							
TRANSPORTER	Transporter 1 Printed/Typed Name	Signa	tore				Month Da	y Year
SPO	JOE UNOFRE	6	MAN				111 8	118
MAN	Transporter 2 Printed/Typed Name	Signa	ture				Month Da	y Year
F			1					
1	17. Special Handling Instructions Soil originating from the above site shall not be used as of	daily cover or sold	as clean fill.					
DESIGNATED FACILITY	18. Discrepancy Indication Space:					19. Tick	12554	44
ATE	Initials of Person noting discrepancy Signature						Data	
ESIGN	20. Management Method/Location						Date	
0	Landfill Monofill	_ Location:						
	21. Designated Disposal Facility Owner or Operator: Certification of receipt of mater	ials covered by the manifes	t except as noted in Ite	m 18				
	Printed/Typed Name	Signa	ture				Month De	y year)



9b. Regulated Building Materials (RBMs) Waste Manifests

WASTE	BILL OF	LADING 8	CERTIFICATE OF RECY	CLING			P/U Fees: \$25_\$30_\$40_\$45_\$55_	BOL#:	2720	
X	Universal		4' Jumbo4' Box8' Jum				\$65\$75\$85\$95\$105	BOL#:	LILO	
	TSCA Was	ste	HID Box Battery Box				\$115\$125\$135\$145\$155			
	Special W	aste	14-G PD 30-G PD 55-0	PDCYBx			Labor Charges: \$	Shipment	Date:	
	Of Waste:		95-G PD 55-G SD 85-G	SD GL Box	Bill To: Off Spec. Charge: \$. / .	
Name:					Name:		Ce/18			
Address:					Address:		a PII		1	
City, State	, Zip:				City, Stat	e, Zip:	an sia.			
Contact:					Contact:	Lakewo	od (0. 80214)	Emergen	ncy Contact	
						JEFF KMI	aht	(877) 3	31-2149	
Phone:			Fax:		Phone:	0-407-4410	Fax:	Exten	sion 4	
PO#			Job#		PO#	100	Job#			
WASTE B	ROKERAGI	E FACILITY			EPA ID	#: COR000231449		_		
X	R8E, LLC				-		For Universal Waste			
		wport Stre	et				ndler of Universal Waste			
	Commerce	City	Colorado 80033-2244				Transporter/Transfer Facility			
	(p) 303-4	24-4887 (f) 303-424-9193				ter/Transfer Facility			
		ike@R8E	nviro.com			#: 050108 550 051Q				
	www.R8Er	viro.com			US DO.	T 1781660 CO	TSCA - EPA Approved PCB Handl	er		
Conta		Was	ste Common Name			DOT Description	1	Total	Unit / Wt.	
Count	Туре		R FLUORESCENT LAMP/S RE	CYCLING	Non-DO	DOT Description T Regulated (per 49 Cl	ED 173 164(a))	Quantity	Volume	
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		5' & OVER FLUORESCENT LAMP/S RECYCLING UTUBE FLUORESCENT LAMP/S RECYCLING					1-11	10	Va.	
		A TOTAL OF STREET	FLUORESCENT LAMP/S RECYCL			Non-DOT Regulated (per 49 CFR 173.164(e)) Non-DOT Regulated (per 49 CFR 173.164(e))				
1	CF	A CONTRACTOR						110	00	
	COMI ACT I ECONESCENT EAMP/S RECTCLING					T Regulated (per 49 Cl		47	ea	
		HID MERCURY/HALIDE/SODIUM LAMP/S RECYCLING SHIELD/COATED/GROOVED LAMP/S RECYCLING				Non-DOT Regulated (per 49 CFR 173.164(e)) Non-DOT Regulated (per 49 CFR 173.164(e))				
			CENT LAMP/S RECYCLING	LING	The second section is a second	A STATE OF THE PARTY OF THE PAR		21	1	
			NITRON LAMP/S RECYCLING			OT Regulated (per 49 CFR 173.164(e)) OT Regulated (per 49 CFR 173.164(e))			la	
	BROKEN LAMP/S RECYCLING CRUSHED FLUORESCENT LAMP/S RECYCLING (processed)									
			NG (processed)		T Regulated (per 49 Cl T Regulated (per 49 Cl					
			E RECYCLE/INCINERATION/MICR		- Care		iphenyls, Solid, 9, PGIII, ERG#171			
			BALLAST RECYCLE/MICROENCAP		Non-RC					
		ESCRAP R			Non-DO	110	P			
		MERCURY	DEVICE RECYCLING		UN3506,	111				
			BATTERY RECYCLING		UN2794					
		ALKALINE I	BATTERY RECYCLING		Batteries					
		NICKEL (Ni	-Cad) BATTERY RECYCLING		Batteries					
		LITHIUM M	ETAL BATTERY RECYCLING - DO	T 173.185(d)	UN3090					
		LITHIUM Io	BATTERY RECYCLING - DOT 173	3.185(d)		Lithium Batteries, 9, P				
		WASTE OIL	RECYCLING		Special \		MAL			
		WASTE GL	YCOL RECYCLING		Special \	Waste Liquid				
		WASTE AE	ROSOLS		UN1950	Aerosols,Flammable,2	.1,ERG#126			
7/	GALLIDA	WASTE LA				Vaste Liquid		771	GA	
		LOW RADIA	ATION CONTAINING SMOKE DETE	CTORS	Special \	Vaste Solid, Nuclear R	egulatory Law 10 CFR 32.37			
			IGUISHER(S)			Vaste Solid				
		METALS RE			Special \	Vaste Solid				
			NEOUS RECYCLING	sowaves,	-			1		
-	0		NEOUS RECYCLING 6	arg Fridge	25			10	000	
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	4	_	labeled and are in proper condition for							
2			Unpaid invoices will be assigned to a	licensed Collection Agency	and subject t	o Collection Agency Fee's, At	troney's Fee's, Court Costs and Interest.	11 1	10	
Signature	e:				Title:	101	Print Name:	Data	10	
					Title.	_	Fillt Name.	Date:		
Transport	er 1 Name	Jesu	S Casado			Transporter 2 Name				
Phone Nu	mber: _/	40-	245-1685			Phone Number:				
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Signature		to the clar	esification and regulations is		Date Signature Date date of issue of the Bill of Lading, the property described above is in					
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ppuloni	good old	1	Thouse retain a copy of this	document as the	Jerundali	on or necycling" 10	the terms and quantities listed above	3.		
	1	-/	-			11	10/18			
Signature			-			Date	/			



10. Weight Tickets



10a. Daily Load Trackers and Associated Truck Tickets



Date:

11-27-18

Project: AP-77

Prepared By: 1808 Casalo.

Dump Site Ticket

						Material				Dump Site Ticket
Arrival Time		Departure Time		Load #	Truck #	Code	<u>Description</u>	Tons/Yards	<u>Dump Site</u>	Number
1270.00	am)/ pm	10:15	and / pm	1	CH 393	Trash	Deno debris	18403	Dods	
10:15	am) pm	10:35	Qn/ pm	2	CH 575	trush	Deno debris	18498	Dods	
10:35	am) pm	10:55	am)pm	3	CK 343	tash	Deno clebris	18428	10243	
12:45	am /pm	1:00	am (pm)	4	C#333	trash	Denoclibers	18 428	D328	<u> </u>
1:00	am /pm	1.20	am /(pm	5	CH575	+ rash	Demo cubis	18 418	Das	
1.20	am /pm	105	am (pm)	1	CH343	trash	Demo debris	18 403	12ades	
3:05	am / fpm	2:00	am / pm	7	CH3333	trash	Deoro clebris	18 408	0323	
3:20	am / jm	10:116	am / 6m	8	CH 575	trosh	Demo albas	12 428	0023	
3:50	am /pm	11:00	am / (pm	9	CA 343	trash	Demo debris	18 1ds	Dods	
28 7:20	am)/ pm	7.00	am/ pm	10	CH575	tash	Demo clebris	18 125	12323	
8:00	(am) pm	0 00	am) pm	1/	CH 343	Concret	Concrete		Henderson	
9:25	(am) pm	13.11	(am)/ pm	12	CH575		Demo albris	ityde	Dods.	
1:05	am / pm	-	am /pm	13	CH 575	trash	Dedro ellbrs	18413	Dads	
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Legend:

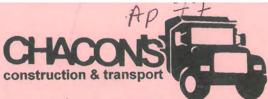
Materials: R = Recycle T = Trash

Description:

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



BILL TO:	TE	<
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No. 8071

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

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10b. Recycling Weight Tickets

THE CLEAN CONCRETE	1.000 EA						
Material END SIDE CLEAN CONCRETE	Quantity	Price	Material \$	Delivery \$	Misc \$	Tax \$	Line Total \$
Signature:				rtified igher:			
Remarks: MIGUEL							
CH343 - SCALEOP - Scale Operator							
Customer: JKSINDUSTR4297 JKS Industries, LLC 747 Sheridan BLVD Lakewood CO, 80214					umber: VASQUE EZ & 170 34	ΞZ	
Henderson CO, 80640	· · · · · · · · · · · · · · · · · · ·				(303) 731-754 ww.hendersonpit		
120 85, LLC 10925 East 120th Ave.				Ticket #: Date: Phone:		8:44 AM	

Gross

Tare

Net

Material

FOR YOUR OWN SAFETY, YOU MUST BE SUITABLY TRAINED AND EQUIPPED. HENDERSON PIT IS NOT LIABLE FOR INURIES, DAMAGES, OR DEATH CAUSED AT OWN RISK. LOADER ALWAYS HAS THE RIGHT OF WAY. YOU MUST LOCATE THE PIT OPERATOR PRIOR TO ENTRY. DRIVERS ARE RESPONSIBLE FOR

THEIR OWN ACTIONS. WE ACCEPT ONLY INERT, NON-ORGANIC, NON-HAZARDOUS MATERIAL.



10c. Waste Weight Tickets



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

Original Ticket# 3267611

Volume

Customer Name JKSINDUSTRIESLLC JKS Industri Carrier JKS INDUSTRIES JKS INDUSTRIES Vehicle# 1

Ticket Date 11/27/2018
Payment Type Credit Account

Manual Ticket# Hauling Ticket#

Route State Waste Code

Manifest Destination PO

Profile ()

Generator

Time

Out 11/27/2018 07:05:03

Scale

In 11/27/2018 07:05:03 MANUAL WT

Operator aramirez aramirez

* Manual Weight

Container Driver

Gen EPA ID

Billing # 0014925

Check#

Grid

Inbound Gross

Tare Net Tons

2 15* 1 16* 1 1.6

9 loads @ 18cyds per load = 162 cyds total all loads from 11/27/18 Comments

PLEASE MAKE SURE YOUR TICKET IS CORRECT BEFORE SIGNING.

Product	LD%	Oty	HOM	Rate	Fee	Amount	Origin
						tion, larger higher transportation printer printer point state of the printer of	
1 CDY-CONST DEBRIS	- 100	162.00	Yards	4.			

Total Fees Total Ticket

Date: 11-27-18	Ticket#: _Ap-77
ACCT#:306-14925	JKS INDUSTRIES CENTRAL 70 PROJECT
CDY 18 YDS	25 YDS HIGHSIDES DISPOSAL SITE: DADS
	3500 S GUN CLUB RD
DRIVER	AURORA CO 80018
Signature:	·
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	9 100ds @ 18 dyds = 11
	TOTHL
	All Le
	11/27
	A.
Date: 11-27-18	Ticket#: <u>Ap - 77</u>
ACCT#:306-14925	JKS INDUSTRIES
	CENTRAL 70 PROJECT
CDY 18 YDS	25 YDS HIGHSIDES
	DISPOSAL SITE: DADS
	3500 S GUN CLUB DD

AURORA CO 80018

Signature: DRIVER:

Date: 11-27-18	Ticket#: AP77
ACCT#:306-14925	JKS INDUSTRIES CENTRAL 70 PROJECT
CDY 18 YDS	25 YDS HIGHSIDES DISPOSAL SITE: DADS 3500 S GUN CLUB RD
Signature: DRIVER:	Cestalo
Date: 11-27-18	Ticket#: Ap-77
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

Signature: DRIVER All

Date: 11-27-18	Ticket#: Ap-77
ACCT#:306-14925	JKS INDUSTRIES CENTRAL 70 PROJECT
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	RIVER
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Date: 11-27-15	Ticket#: AP-77
Date: 1-27-15 ACCT#:306-14925	Ticket#: AP-77 JKS INDUSTRIES CENTRAL 70 PROJECT
	JKS INDUSTRIES

Date: 11-27-18	Ticket#: <u>Ap-77</u>
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:	
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Date: 11-27-18	Ticket#: AP-77
Date: 11-27-18 ACCT#:306-14925	JKS INDUSTRIES
ACCT#:306-14925	JKS INDUSTRIES CENTRAL 70 PROJECT
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ACCT#:306-14925	JKS INDUSTRIES CENTRAL 70 PROJECT 25 YDS HIGHSIDES DISPOSAL SITE: DADS 3500 S GUN CLUB RD

Date: 11-27-18	Ticket#: <u>Ap-77</u>
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
Signature:	DRIVER MARCH/

4.

.



Denver Arapahoe Disposal 3500 S Gun Club , PO Box 460397 Aurora, CO, 80018 Ph: (720) 876-2620 Original Ticket# 3268658

Customer Name JKSINDUSTRIESLLC JKS Industri Carrier JKS INDUSTRIES JKS INDUSTRIES Ticket Date 11/28/2018 Vehicle# 1 Volume

Ticket Date 11/28/2018 Vehicle#
Payment Type Credit Account Container

Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing

Route Billing # 0014925 State Waste Code Gen EPA ID

State Waste Code Gen EPA ID
Manifest Grid

Destination

Profile ()

Generator

Time Scale Operator Inbound Gross 2 1b*
In 11/28/2018 08:58:44 MANUAL WT aramirez Tare 1 1b*
Out 11/28/2018 08:58:44 aramirez Net 1 1b

* Manual Weight Tons

Comments 3 loads x 18yds per load = 54 cyds total from 11/28/18 central 70 project

PLEASE MAKE SURE YOUR TICKET IS CORRECT BEFORE SIGNING.

Product	LD%	Oty	MON	Rate	Fee	Amount	Origin
1 CW-CONST DEBRIS	100	54.00	Yards	The same and the s	and significant many later and later book page a	the control total time the start and start that little such you was to	***

Total Fees Total Ticket

Date: 11-28-18	Ticket#: <u>Ap-77</u>	
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 18045 X3 loads= 54045 total	- 1
Signature:	DRIVER	
Date: 11-28-18	Ticket#: <u>Ap-7-7</u>	
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	

Date: 11-28-18	Ticket#: AP-77
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
Signature:	DRIVER .



11. Dump Diversion Summary

JKS Industries

AP-77: 4615 Fillmore St.

	Descriptions		Dump Diversion / Recycle %							
Phase	Activity	<u>Unit of</u>	# of Yards	<u># of</u>	<u>Total</u>	<u>Pounds</u>	<u>Total</u>	Recycled	<u>Pounds</u>	<u>% of</u>
		<u>Measure</u>	<u>per</u>	Containers	Number of	<u>Per</u>	<u>Lbs</u>	Yes/No	of Recycle or Dump	Recycle or Dump
			<u>Container</u>		<u>Yards</u>	Yard **			<u>Diversion</u>	<u>Diversion</u>
Abatement	Trash Rolloff	Cubic Yard	-	-	-	450.00	-			
Abatement	Asbestos Containers	Cubic Yard	-	-	-	500.00	-			
Demolition	Demolition Construction Debris	Cubic Yard	18	12	- 216.00	1,400.00	302,400			
Demolition	Concrete Debris	Cubic Yard	12	1	12.00	4,050.00	48,600	X	48,600	13.85%
Demolition	Trees	Cubic Yard	-	-	-	500.00	-	Х	-	0.00%
Demolition	Steel	Lbs	-	-	-	-	-	Х	-	0.00%
Demolition	Copper	Lbs					-	Х	-	0.00%
				13	228.00		351,000		48,600	13.85%

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.



12. Containment Entry/Exit Log

CONTAINMENT SIGN-IN & SIGN-OUT SHEET Job Name:

Job #:

Date:

NAME	SIGN-IN	SIGN-OUT	SIGN-IN	SIGN-OUT
1. Alex Martinez Con	7:00	10:30	1,45	3:30
2. Alor Houty Coval	7:00	10:30	12.45	3 30
3. Wilmer Andresa	7:00	10:30	12,195	3 30
4.MI antivivi	7000	10:30	14,47	5:35
5. Janis Major	2,00	10.30	12.45	3:30
6.				
7.				
8.	*			
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				

CONTAINMENT SIGN-IN & SIGN-OUT SHEET Job Name: Ap 77 Job #: /8 - 32 Z

Date:

NAME	SIGN-IN	SIGN-OUT	SIGN-IN	SIGN-OUT
1. Denos M	7:00	1'.00	1:30	3:30
2.6ED T	9:03	10:40		
3. wilmer A	10:00	1:00	1:30	3:30
4. Mactir M	10:50	1:00	1:30	3:30
4. Mactir M 5. Alex C	10:00	1:00	1:30	3:39
6.				
7.				
8.		+		
9.				
10.				
11.	L. L.			
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				

CONTAINMENT SIGN-IN & SIGN-OUT SHEET Job Name:

Job Nam Job #:

Date: 10 30 18

NAME	SIGN-IN	SIGN-OUT	SIGN-IN	SIGN-OUT
1.Alex C	7:00	11 . 30	12:00	3:30
2. MACTIC M 3. WILMER A 4. Denvis	7:00	11 : 30	00:21	3:30
3. wilMER A	7:00	11:30	12:00	3:30
4. DENNIS	7:00	11:30	12:00	3:30
5.				
6.				
7.				
8.				
9.				
10.				
11,				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				

CONTAINMENT SIGN-IN & SIGN-OUT SHEET Job Name: 4777 Job #: 18 327

Date:

10 31 18

NAME	SIGN-IN	SIGN-OUT	SIGN-IN	SIGN-OUT	
1. MARKIT M	7:10	10:00	11:30	3:30	
2. Alex Grosovel	7:10	10:00	11:30	3:30	
3. wilmer A	7:10	10:00	11:30	3:30	
4. Denvis m	7:10	10:00	11:30	3:30	
5.					
6.	-				
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					

CONTAINMENT SIGN-IN & SIGN-OUT SHEET Job Name: A7 77 Job #: 18 322

Date:

NAME	SIGN-IN	SIGN-OUT	SIGN-IN	SIGN-OUT
1. wilmer A	7:00	12:00	12:30	3:30
2. martir m	7:00	12:00	12:30	3:30
3. Dennis M	7:00	12:00	12:30	3:30
4. Alex cospore	7.00	12:00	12:30	3:30
5.				
6.				
7.				
8.		*		
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				

CONTAINMENT SIGN-IN & SIGN-OUT SHEET Job Name: A ? 77 Job #: 18 322

11 2 18 Date:

NAME	SIGN-IN	SIGN-OUT	SIGN-IN	SIGN-OUT
1. Dennis M	7:10	12:00	12:30	3:00
2. martic m	7:10	12:00	12:30	3:00
3 wilmer A	7:10	12:00	12:30	3:00
4. Alex coronel	7:10	12:00	12:30	3'.00
5.				
6. 7.				
				-
8.	4	*		
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.			1	
19.				
20.				



13. Daily Logs

JKS Industries **ON-SITE DAILY SIGN- IN SHEET**

Date: 10 23 /8

Project Name: Ay 77
Project NO: /* 322
Supervisor: 460

NAME	Initial	EMPLOYER	TIME IN	TIME OUT	TIME IN	TIME OUT	TOTAL
Alex M Coronel	AMC	JKS	7:00	12:-00	12:30	4:36	9
Alex A COA		5KS	7:00	12:00	12:30	4:30	9
Leo Thomas	6	JKS	6:45 AM	No	LUACh	5:00pm	10.25
		Ŧ					
					+		
	141						
					t		
4							
				7*1			
							-
						TOTAL	TX 15

JKS IDUSTRIES LLC DAILY PROJECT LOG Project Manager Superintendent **Work Performed Today** Weather: Arived @ JOBSIZE @ 11:45A. REMOVAL OF TRASH (FOOD - FURNITURE - ECT) from Temp. Hi____Low_ Safety Meeting Duit 4615. USF of Tyrek suits & Resy Required. Activeity continues until end of Day Topic: PPE Work Force Number Project Manager Project Supervisor Operators Laborers Tradesmen Other: Other: Other: Materials Used Quantity Material Purchased/Delivered Problems - Delays, Safety Issues Debris coutains Potintial Bio HAZARD (Drug PARAphernalia) **Subcontractor Progress** NA Inspections N-A **Equipment Rented Today** Rented From Insp Chklist Complete? | Equipment Hours

Visitors (Incl. Subs, Clients, etc)

JKS Industries on-site daily sign- in sheet

Date: 16 23 18

Project Name: Ap 77

Project NO: 18 - 322

Supervisor: 566

NAME	Initial	EMPLOYER	TIME IN	TIME OUT	TIME IN	TIME OUT	TOTAL
Denvis mejia		OKS	7:00	12:30	1'00	5:30	10
MACHIC MENJIVAT	MM	JKS	7:00	12:30	1:00	5:30	10
Alex m COA	AM	JKS	7:00	12:30	1:00	5:30	16
Alex M CORNEL	ATIC	JKS	7:00	12:30	1:00	5:30	10
Fee Thomas	6	JKS	6:45		1:60	5:45	10:5
wilmer Appersa	W	5KS	7:00	12:30	1:00	5:30	10
			-				
		0					(3)
				-			
8							
						TOTAL	

JKS IDUSTRIES LLC DAILY PROJECT LOG

 Job # 18 - 322
 Job Name: A 77
 Report # 2

 Date 10 23 18
 Day WeDS
 Month 1
 Year 1

 Project Manager
 Superintendent 50

ork Performed Today	Weather:				
Stack marrials w/ w					
Winue per cleaning of	Temp. HiLow				
I was clear BARS. Moved to	Safety Meeting				
com justo 2. Precleans co	winues and 2m	D Half of	Topic: Dost		
of ai wail yellof I say ma	STEEN GOVED	Domesta from	Work Force N	lumber	
280.	0		Project Manager		
Clear BAS MOVED for	are House ind	Duckler	Project Supervisor		
Met in House Bemaro	مرا المال المال	cto	Operators		
		We I'd	Laborers		
too out to cunch			Tradesmen		
ctutal from Lunch			Other:		
2			Other:		
Prelegal continues wit			Other:		
om unit. VACUUM All such	aces. Start initio	1 Setup.	Materials Used	Quantity	
A.M.'S Tustalled, 6 mil crit	icals of Fix OR	jects & ofening	Materials Used	Quantity	
ciny in staller		7			
Starting Coll containmen	A END the DA	with			
DECMEPT Of Deliverico wat	er Buffalo & Ele	etric GEN.			
		MINERAL TO THE PARTY OF THE PAR			
			Material Purchased/D	elivered	
roblems - Delays, Safety Issues ഗ്ര പ്					
Subcontractor Progress					
Subcontractor Progress					
Subcontractor Progress					
Subcontractor Progress N M Inspections	Pontad From	Inco Chklist Complete?	Equipment	Hours	
Subcontractor Progress NA nspections	Rented From	Insp Chklist Complete?	Equipment	Hours	
Subcontractor Progress N M Inspections	Rented From	Insp Chklist Complete?	Equipment	Hours	
Subcontractor Progress NA Inspections Requipment Rented Today			Equipment	Hours	
Subcontractor Progress N M Inspections	Rented From Time In/Time Out	Insp Chklist Complete? Activity Onsite	Equipment	Hours	
Subcontractor Progress NA Inspections Requipment Rented Today			Equipment	Hours	
Subcontractor Progress NA Inspections Requipment Rented Today			Equipment	Hours	

JKS Industries ON-SITE DAILY SIGN- IN SHEET

Project No: 18 322
Supervisor: 620

NAME	Initial	EMPLOYER	TIME IN	TIME OUT	TIME IN	TIME OUT	TOTAL
live in corpel	AMC	JKS	7:00	12:00	12:30	5:30	10
alex m coa	AHC		7:00		12:30	5:30	0
Depise megia	DIM	JKS	7.00	12'.00	12:30	2:39	0
MARTIE MENINAT	MM	TKS	7'.00	12:00	12:30	5:30	10
GEO THOMAS	4	JKS	6:45			5:45	10-5
wilmer ANDVERD	111	TKS	7:00	12:00	12:30	5:30	10
					14		
					*		
	-						
				-			
						TOTAL	61.5

JKS IDUSTRIES LLC DAILY PROJECT LOG Job Name: Ap 77 4615 Filmore St Report # 3 Job # ____ Month Z Year 1 Day Thros Date 10 25 18 Superintendent 660 Project Manager Weather: Work Performed Today Start the day with work plan & safety brief Temp. Hi____Low Safety Meeting Pre clear 075 continue. Crew MOON W/ full PPF + tyrek & respirator to protect from Topic: Number Work Force Companionated or prising to whoman INVICONMENT. BegIN CONSTRUCTION OF DECON & TIAGL Project Manager Project Supervisor Load ost Operators Att call for hed. Gently @ 32% Laborers 5 Tradesmen Out to wich Other: Took worter Buffalo to be filled. Other: Ref. 11 went over time Due to Other: LACK OF COMMUNICATION Quantity Materials Used Crew prespond Due to MC NOT Being ON site Return to site with full water source.

Spent first of loomy completein

Setup			Material Purchase	ed/Delivered
50 H	of tomesorow			
oblems - Delays, Safety Issues				
NX				
bcontractor Progress				
A. /	Λ			
.				
spections				
	A \	<u> </u>		
	/\)	A		
Equipment Rented Today	Rented From	Insp Chklist Complete?	Equipment	Hours
2. I M				
TO P				
Visitors (Incl. Subs, Clients, etc)	Time In/Time Out	Activity Onsite		
0 1				
Alt				

Date:	10 26 18	
Project Name:	A+ 77	- Hol.
Project NO:		
Supervisor:	100	

MACRIC M MINI JKS 7:00 12:00 12:30 3:30 8 ALEX M COA AM JKS 7:00 12:00 12:30 3:30 8 ALEX M GOODEN AMC JKS 7:00 12:00 12:30 3:30 8	NAME	Initial	EMPLOYER	TIME IN	TIME OUT	TIME IN	TIME OUT	TOTAL
Deposis m DM JKS 7:00 12:00 12:30 3:30 8 MACHIEF M COA AM JKS 7:00 12:00 12:30 3:30 8 MININ M GEORGE AMC JKS 7:00 12:00 12:30 3:30 8 DEFINITE A W JKS 7:00 12:00 12:30 3:30 8 DEFINITE A W JKS 7:00 12:00 12:30 3:30 8	two T	6	JKS	6:45	14:00		3:45	9.5
Alex or Grown AHC JKS 1:00 12:00 12:30 3:30 8 Dinat A JKS 7:00 12:00 12:30 3:30 8	Depais m	DM	JKS	7:00	12:00	12:30	3:30	8
Alex or Grown AHC JKS 1:00 12:00 12:30 3:30 8 Dinat A JKS 7:00 12:00 12:30 3:30 8	MACLIC M	MINI	JKS	7:00	12:00	12:30	3:38	8
ALCY M. GEOMEN HAC JKS 7:00 12:00 12:30 3:30 8 DITAGE A W JKS 7:00 12:00 12:30 3:30 8				7.00	12:00		3:30	
DITALE A W JKS 7:00 /2:30 3:30 8			JKS	7:00	12:00	12:30	3:30	
	wilmer A	W	JKS	7:00	12:00		3:38	8
		- × 1						
						5.		
		-						
				-				
							-	-
			-					
							TO T 4:	111

Job# 18-322 Date 10 26 18

JKS IDUSTRIES LLC DAILY PROJECT LOG

Job Name: 0277 4615 Filmore St Day Fri Month 1 Report # 4 Year 1

Project Manager

Roben D

Superintendent

Nork Performed Today			Weather:			
WORK FLAN SAfety	Brief		Temp. HiLow			
			Safety Meeting			
Start BOK remove	al with coil	in	Topic:	luis bas		
GLEDRY and mater Bulle Continue & To Build of to secure Structure	dy for Bath	the	THE PARTY OF THE P	lumber		
GENOY aND WATER BUEG	ielo		Project Manager			
CONTINUE TO BUILD !	RECON. New FALL	rotections	Project Supervisor			
to secure Structure	to Root of	Unit	Operators			
			Laborers			
SENAY SEEMS to have po	war out out issu	eS.	Tradesmen			
I will observe fartes.			Other:			
			Other:			
Alles lauch caillige rea	10VED 90% 10MP	icte All	Other:			
After lunch ceilling real	remodel in BACS	end for	Materials Used	Quantity		
	3					
Bas out						
P P. al Rand	and to B C.A	AF DALL				
Begin BAS ONT. BAG OUT	OMITTIC G. EVID	un priy				
C1						
Shower our Secure site						
			Material Purchased/E	elivered		
			Waterial Luteriased/E	Clivered		
100						
Problems - Delays, Safety Issues						
GENOFATOR Grom United: Issues, Equipment uni	s not working	Property - Sus	rected rower out	+204		
Trenes . Equipment uns	per watch			•		
-						
Subcontractor Progress						
our on it uses it is given						
A 1 A						
NA.						
lucucations						
Inspections						
			I e a company	1 11		
Equipment Rented Today	Repted From	Insp Chklist Complete?	Equipment	Hours		
10.10						
1/08/						
10.01						
Visitors (Incl. Subs, Clients, etc)	Time In/Time Out	Activity Onsite				
Visitors (moi. odbs, olients, etc).	Timo na Timo Out	, tourity oriono				
100						
NIXII						
1/						

JKS Industries ON-SITE DAILY SIGN- IN SHEET

Date:	29 11	- 222
Project Name: 4/77		- MON
Project NO:	18 322	_
Supervisor:	650	_

NAME	Initial	EMPLOYER	TIME IN	TIME OUT	TIME IN	TIME OUT	TOTAL
vilmes A	W	JKS	7:00	12:00	,2:30	5:30	10
Alex M Grovel	AMC	UKS	7:00	12:00	12:30	5:30	10
	Dr	JKS	7:00	12:00	12:30	5:36	10
DEMNIS MEJIA MACHIC MENJIVAC	AA M	JKS	7.00	12:00	14:30	5:30	10
Les Thomas	5	JKS	6.45	12:00	12:30	3:32	10.5
geo Thomas		0 113					
			-				
							4
						TOTAL	

JKS IDUSTRIES LLC DAILY PROJECT LOG

Job# /¥ 322 Date 10 24 /¥ Job Name: 🗚 ७७ ७

Month No v

Report # 5 Year 1

Project Manager

Rober D.

Superintendent

ork Performed Today			Weather:			
Crew Starts @ 7:0	00 with wo	VK PLAN	0	70		
			Temp. Hi 55° Low 37°			
& safety breit. Bulk	removal sta	irts in	Safety Meeting			
		1	Topic:			
IVING FOOM AND At	2000 thois	with work		umber		
0			Project Manager			
Clow moving west w	ALIN UNIT. WA	11.5 pretty	Project Supervisor			
3			Operators	_		
huch @ 50% by low	ch		Laborers			
			Tradesmen			
D.T.L. / R. F. L.			Other:			
			Other:			
fler bouch crew stil	into 1/2's OF	ue urw	Other:			
Eta Cape . Etab Still	1010 /23. 01		Materials Used	Quantity		
entinues Demo the ott	or class start	s baceide				
SAT DOCT DEMO THE DI	a ciew sinis	, 20.0				
abis. Bas out 50%	complete Ry eur	DAF DAV				
A BILL - IN OUT WE	DATE OF EDE	7				
1. THE E . T	MACHA L. Antes	CAC				
lela JKS Supervisor M	THE TENT TO MOUNTE	22	Material Purchased/D	elivered		
2 15 1			material i di citaccare			
for water Buttalo						
Continues Problems with	KENNY- Get	old us often	w to proceed			
CANTINUED PROBLEMS WITH NECO LABLES	GENNY-Get	iateo on Ha	w to proceed			
CANTINUED PROBLEMS WITH NECO LABLES	KENNY-Get	isto od Ho	m to proceed			
CANTINUED PROBLEMS WITH NECD LABLES	GENNY-Get	isto od Ha	w to pièceed			
CANTINUED PROBLEMS WITH NECD LABLES Subcontractor Progress	GENNY-Get	idifo on His	w to proceed			
Subcontractor Progress	GENNY-Get	iateo on Ho	w to proceed			
CAMINUED PROBLEMS WITH NECD LABLES Subcontractor Progress	Kenny-Get	iateo on Ho	w to pièceed			
CAMINUED PROBLEMS WITH NECD LABLES Subcontractor Progress	Kenny-Get	id to offici	w to pièceed			
CAMINUED PROBLEMS WITH NECD LABLES Subcontractor Progress	GENNY-Get	idifo on Ha	w to proceed			
CAMINUS PROBLEMS WITH NECD LABORS Subcontractor Progress Inspections	Rented From	Insp Chklist Complete?		Hour		
CANTINUED PROBLEMS WITH NECD LABORS Subcontractor Progress	GENNY-GET			Hour		
Subcontractor Progress Inspections	GENNY-GET			Hour		
Subcontractor Progress Inspections	GENNY-GET			Hour		
Subcontractor Progress Inspections	GENNY-GET			Hour		
Subcontractor Progress Inspections	GENNY-GET			Hour		
Subcontractor Progress Inspections Equipment Rented Today	Rented From	Insp Chklist Complete?		Hour		
CAMINUS PROBLEMS WITH NECD LABORS Subcontractor Progress Inspections	GENNY-GET			Hour		
Subcontractor Progress Inspections Equipment Rented Today	Rented From	Insp Chklist Complete?		Hour		
Caminues Problems with Neco Lables Subcontractor Progress Inspections Equipment Rented Today	Rented From	Insp Chklist Complete?		Hour		

Date:	10	30	18	_
Project Name:			A+ 77	lues
Project NO:	18	322		
Supervisor:	680			

NAME	Initial	EMPLOYER	TIME IN	TIME OUT	TIME IN	TIME OUT	TOTAL
Mactic M	MM	JKS	7:00	12:00	12:30	3:30	5
wilmer A	w	JKS	7:00	12:00	12:30	3:30	8
Alex Coronel	AMC	TKS	7:00	12:00	12:30	3:30	
Dennis MejiA	01		7:00	12:00	12:30	3:30	8
Geo Thomas	6	UKS	6:45			3:45	9.5
					,		
*							
							-
						TOTAL	

JKS IDUSTRIES LLC DAILY PROJECT LOG Job Name: Job# 18 322 Date 10 30 18 Day Tursony Superintendent Geo Project Manager Weather: Work Performed Today WORK Pland & SAfry Breit. Temp. Hi____Low___ Safety Meeting BUIK removal of whats left of the Topic: Work Force Number WALLS IN the UNIT, JELLA Debrig Project Manager is to be Basses up By lauch. After Project Supervisor Operators Reinforce exiticals & re-establish pressure Laborers Tradesmen Bugin fox tail - VALUDMING GND PULLING Other: Other: Other: Noile & Screws-Materials Used Quantity D.T.L. - R.F.L. Bag out lots of Buruitas made. Detail dew continues END of DAY Material Purchased/Delivered Problems - Delays, Safety Issues Subcontractor Progress Inspections

Equipment Rented Today	Rented From	Insp Chklist Complete?	Equipment	Hours
Visitors (Incl. Subs, Clients, etc)	Time In/Time Out	Activity Onsite		

Date: 10 31 18

Project Name: A2 77

Project NO: 18 322

Supervisor: 460

NAME	Initial	EMPLOYER	TIME IN	TIME OUT	TIME IN	TIME OUT	TOTAL
Seo Thomas	4	JKS	6:45	17:06	12:30	345	8.5
Danis Hedu	De	5 k S	7:00	12:00	12:30	3:30	X
Martir NI	MM	JKS	7:00	12:00	12:-30	3:30	8
Wilmer Andulys		145	7:00	12:00	12:30	3:30	8
AlorthodyCoronl	AMC	JKS	7:00	11:00	12:30	7:30	8
					J.		
					7		
			+ -				
*							
			1				
							-
						TOTAL	

JKS IDUSTRIES LLC DAILY PROJECT LOG

Job # 10 31 18

Day Wo Month 1 Month 1 Report # 7
Year 1 Superintendent 650 Project Manager Work Performed Today Weather: WORK PLAN & SALETH Breit Temp. Hi____Low__ contine final clear & Detail. Also Safety Meeting Topic: peop cofs Work Force Number Project Manager Detailing is mostly vacuuming and Project Supervisor Operators MAKE burritos. Bulk removal of walk Laborers 4 Tradesmen 9 BAth room tile Clooring. Other: Other: Out to Lunch - Return from lunch Other: Materials Used Quantity Bilk remount continuer until end of Material Purchased/Delivered Problems - Delays, Safety Issues Subcontractor Progress Inspections **Equipment Rented Today** Rented From Insp Chklist Complete? Equipment Hours

Visitors (Incl. Subs, Clients, etc)

JKS Industries

ON-SITE DAILY SIGN- IN SHEET

Date: 1(18

Project Name: 77

Project NO: 18 322

Supervisor: 40

NAME	Initial	EMPLOYER	TIME IN	TIME OUT	TIME IN	TIME OUT	TOTAL
GEO Thomas	6	JKS	4:43	12:00	12:30	3:45	8.5
Janhi Ma	DA	5ts	7:00	12:00	12:30	3:30	8
Martir M	MM	JKS	7:00	12: 60	12:30	3.30	8
Wilmer Andules		JK5	7:00	12:00	12:30	3:30	8
Alor Hash Cooper	ANC	TKS	7:00	12:00	12:30	3:30	8
					1.		
				Э.			
	-						
						TOTAL	

JKS IDUSTRIES LLC DAILY PROJECT LOG

Job # 18 322 Job Name: 19 77

Date 11 19 Day 16 CS

Report # 8

Project Manager _____

Superintendent

Month __

ork Performed Today		20 0 0	Weather:	
WORK Plan SAF	ety breit.	Refresh		
The same			Temp. HiLow	
ritical barriess insite	E & noclos.		Safety Meeting	
111.CAT DATE COSTASTA	1 000 1000		Topic:	
1 1: - 2	10-10 01.5	4-10 8-14/:10		umber
CONTINE BY WEAPPING	TACEL DESCIS	APO REMOVIED	Project Manager	
			Project Supervisor	
from containment (Make	Rollitos) D.	etail work	Operators	
* · ·			Laborers	
onsist of Fox teil bri		1		
	Tradesmen			
Attic. Foxtall walls	AND Leafblo	W ENTER	Other:	
			Other:	
init. Vacuum interior	BAC OUT U	Ntil Lunch.	Other:	
	0		Materials Used	Quantity
Sut to Lunch - Return	o grow Franch			
Bag out . Start Detail	WASH DOWN			
WASH DOWN Almos	it complete	House Keeping		
		. 7		
END OR DA	v		Material Purchased/D	elivered
Subcontractor Progress				
nspections				
Equipment Rented Today	Rented From	Insp Chklist Complete?	Equipment	Hour
6				
Visitors (Incl. Subs, Clients, etc)	Time In/Time Out	Activity Onsite		

Date:	11 2 18
Project Name:	A2 77
Project NO:	
Supervisor:	600

NAME	Initial	EMPLOYER	TIME IN	TIME OUT	TIME IN	TIME OUT	
Dennis M		JKS	7:00	12:30	MAR	3.	2.2
martin M		JKS	7:00	12:30	1:00	3:30	8
wilmer A		JKS	7:00	12:30	Wison		5.5
Alex CONONEL		JKS	T:00	12:30	1:00	3:30	8
GEO Thomas	6	JKS	6:45			3:45	8.5
					4		
	-						
					-		
	-						
) •			
						TOTAL	

JKS IDUSTRIES LLC DAILY PROJECT LOG

Job # 18 327 Date 11 1 18 Job Name: A2 77 Report # ______ Day Fr.DAY Month Superintendent 550 Project Manager

Vork Performed Today			Weather: PAL-	k Closek		
Start with work	Temp. Hi 63° Low 34°					
			Safety Meeting			
pecial Note: critical	barriest & c	read tape	Topic:			
			Work Force	Number		
fact washing Pour	The voit.	VACIOUS	Project Mar	nager		
3			Project Super	visor l		
Equipment Sent out	AS wash con	RIVER	Oper	ators		
Collins			Lab	orers –		
11 WOOD Surfaces	Above (x:11:	40	Trades	smen		
1 1000		7	Other:			
completly clean ARG	1000 9:30 Am		Other:			
DIMPLE THE STATE OF THE STATE O	70.0		Other:			
1 2. 1 -6	. 11 6	1910 (march)	Materials Used	Quantity		
JASh DOWN of UNIT	complete &	1200 (2000)	materiale edga			
TFL						
2 4	1 0 1	(a) 1 Cr (a)				
Bag out while we we	at tor Hygra	ist to liwish				
Inspection of shoot	out side :		14 () ()	MD - Pro		
			Material Purcha	sed/Delivered		
	•					
Problems - Delays, Safety Issues	5					
Subcontractor Progress						
oupcontractor r regrees						
				D-		
4						
Inspections						
Visual in Spections	By & All	Phase - Failed	large me	Al pipe		
WIADDED IN ASSISTED P	Zema. US Justuc	to to Remove	Believe All,	Shere		
Returns Thrus						
Equipment Rented Today	Rented From	Insp Chklist Complete?	Equipment	Hours		
	1 0					
1//2	/4					
	1					
// //						
Visitors (Incl. Subs, Clients, etc).	Time In/Time Out	Activity Onsite				
All Phase	1:30 2:30	1				
All Phase	1:30 2:30	Visual inspection				
All Phase	1:30 2:30	1				
VISITORS (INCI. SUDS, Clients, etc.)	Time in Time Out	MOLIVILY OTISILE				

JKS Industries
ON-SITE DAILY SIGN- IN SHEET

Project No:
Supervisor:

Date: 11-27-18

AP-77

LSUS CASADO

NAME	Initial	EMPLOYER	TIME IN	TIME OUT	TIME IN	TIME OUT	TOTAL
Jesus Casado	JC	JPS	7:00 AM	500 p.H			
Tamob Ramina	SR	JRS	700 HOY	5.00 PM			
Tosom Castalla	51	Chacon's	B:+m				
Sose Sourbez	15	Chacon's	10-AM				
Jesus Casado Jemob Ramina Jose Souchez Myenre I Chano	tel felt	CHACEH! 5	10:00				
- Krist L. China		- C411					
	+				4		
+							
							-
			-	9			
			-			-	
						TOTAL	

JKS Industries **ON-SITE DAILY SIGN- IN SHEET**

Project No: 18-327
Supervisor: Scott / Jesus

NAME	Initial	EMPLOYER	TIME IN	TIME OUT	TIME IN	TIME OUT	TOTAL
usus lasado	JC	JRS	7:00 AM	3:30 PM			
Samob Kamir 19	JR	JRS	7:00 AM	3:30 PM			
Jamab Hamis 12 Jose Spuche	1,5.	chacon	7:00 Am				
10-20-							
		-				100	
		100					
			,				
*							
						TOTAL	