

Disclaimer:

This document is the Asbestos Survey for 901-909 10th Ave.

Upon request the County will make reasonable accommodations for alternative access to the listed documents.

Please submit your request via Weld Request for Accommodation Form , email ADACoordinator@weld.gov, or by calling Human Resources at (970) 400-4234.



Mr. Toby Taylor, Building Maintenance Coordinator
Weld County Building Dept.
P.O. Box 758
Greeley, Co. 80632

January 7, 2019

RE: Asbestos Inspection – Weld County West Annex – North Building, 901 10th Avenue, Greeley;
MEC #2019.145

Mr. Taylor,

The following memo documents the results of the asbestos inspection of the West Annex -South Building located at 901 10th Avenue, Greeley. The subject building is one of two structures associated with the subject parcel, and is identified as Building 1, per the Weld County Assessor property report for parcel # 096105330009. The assessor record indicates that the building were constructed in 1956.

A total of twenty two (22) building material samples were collected from the subject building. The sampling confirmed asbestos containing Thermal System Insulation (TSI) on a former water heat/cooling system piping located in the basement.

Scope of Work

The objective of this asbestos sampling inspection was to determine the presence of asbestos containing building materials (ASBM) in the subject structure for a planned building renovation. MEC Inc. was verbally informed that the current remodeling plans include the removal of the current reception entrance wall on the east side of the building and the construction of a new bathroom in the NE corner of the building where a current office is located. The renovation plans also may include the construction of a connection breezeway from the south side of the building to the adjacent south building.

Property Description

The subject Building 1 structure is 2850 square foot (SF) concrete block / brick building, which includes a 1,444 SF finished basement.

The interior finish includes a painted texture drywall, ceiling suspended acoustic panels, and carpet floor covering. The HVAC system units are located on the roof and supply and return is through a ceiling plenum. The respective type of buildings materials observed throughout Building 1 appear to be similar.

General Information - Asbestos-Containing Material (ACM)

Asbestos is a generic term for a group of naturally-occurring minerals that separate into fibers. The most widely used in industry are chrysotile and amosite. Other types include crocidolite, tremolite, anthophyllite, and actinolite. According to the U. S. Environmental Protection Agency

(EPA), friable asbestos is asbestos-containing material that can be crumbled, pulverized, or reduced to powder by hand pressure. As friable asbestos-containing material ages, it can lose its cohesive structure and release fibers into the air.

Asbestos containing materials are defined by the EPA as materials with greater than (>) 1 percent (%) of asbestos. Materials with detected asbestos but at concentrations less than (<) 1 percent are considered as ‘trace’ materials. Trace materials are not considered as asbestos containing but appropriate precautions in handling or disturbing these materials are necessary as required by OSHA.

Whether friable or non-friable, the primary goal in minimizing risk of asbestos-related illnesses is the identification and subsequent management of all ACMs present in a building. The identification of potential asbestos containing materials, in public and commercial buildings, is necessary to limit the releases of asbestos fibers during demolition, remodeling, or renovations.

Physical Risk Assessment : Asbestos Containing Building Materials

Note, the inspection did not identify any asbestos containing materials. The following information is provided as general background information, as required for asbestos inspection.

The information below summarizes evaluation of the physical risk assessment of the confirmed or assumed asbestos containing materials. All materials are classified as Friable or Non-Friable at the time of the inspection and sample collection. The inspection determined Risk Categories for identified asbestos containing materials are summarized below.

7 AHERA Categories of Damage (condition/potential for disturbance categories)

- 1) *TSI Damage or Significantly damage*
- 2) *Damage Friable Surfacing ACM*
- 3) *Significantly Damage Friable Surfacing ACM*
- 4) *Damage or Significantly Damaged Friable Surfacing ACM*
- 5) *ACBM with potential for damage*
- 6) *ACBM with potential for significant damage*
- 7) *Any remaining friable ACBM or friable suspect ACBM*

% of Observed Damage Determination:

CONDITION	Local	Distributed
Good	0 %	Minimal
Damage	< 25 %	< 10 %
Significantly Damage	> 25 %	> 10 %

Asbestos Sampling Results

MEC Inc. collected a total of twenty two (22) representative samples, of potential suspect asbestos containing materials from the building. Such materials include: painted texture drywall, non-texture painted drywall, carpet, acoustic ceiling panels, cove baseboard molding, and brick./

mortar. The attached site schematic illustrates the approximate location of the sampling locations and the sampling results are summarized in Table 1, sampling table.

Each building is considered its respective homogeneous area with functional spaces such as: warehouse, offices, and restrooms, etc. The table below summarizes the type of building materials sampled.

Building (Homogeneous Areas)	Functional Space >>>>	Office Area	Basement Utility Room	Exterior
Drywall		6		
Floor Covering - Carpet		2		
Acoustic Ceiling Panels		5		
TSI			4	
Cove Base Molding		3		
Brick and mortar				2

Asbestos was detected at concentrations greater than 1%, in three of the four samples of the TSI in the basement utility room. The piping/duct on which the TSI included was observed to be former inactive heat/cooling equipment, (18 inch in diameter, approx. 34 in total length, samples WAN-ASB16,17,18. This material is considered to have a Category 1 Hazard Potential.

Also, MEC Inc. observed approximately 20 feet of insulated 1 inch piping suspended from the ceiling. Much of this piping is situated above the above TSI covering materials and was not readily accessible. One sample, (WAN-ASB19), of insulation and pipe mud extending from the wall has an asbestos concentration > 1%.



View of basement utility room, with asbestos containing TSI coated heating system pipes. The piping appears to be inactive and disconnected.



View of small diameter insulated water line piping above the large diameter TSI coated piping.

Findings and Recommendations

Asbestos containing building materials were not identified in the materials collected from the primary remodeling area.

Asbestos TSI materials were confirmed in the basement utility room. It appears that these materials were not in use and disconnected from any other equipment. MEC Inc. was not able to not observe these materials in other portions of the building. MEC Inc. recommends that these materials be removed/abated by a certified asbestos abatement contractor, to limit the potential disturbance of these materials during the renovation activities or subsequent building use. The abatement activities should also include the removal of the TSI on the water pipes (approximately 20 linear feet), since these materials were not readily accessible due to their location above the large diameter asbestos coated TSI pipes.

MEC Inc. did not disturb or sample the roof materials. It is understood that the HVAC equipment may be replaced or other roof penetrations may be necessary as part of the remodeling activities. In such circumstances it is recommended that asbestos sampling be performed prior to disturbing the roofing materials.

If other suspect asbestos containing are encountered during the remodel, which were not sampled during this inspection, it is suggested that these materials be sampled.

Prior to the demolition of the building it is required that a building demolition permit be obtained from the state.

MEC Inc appreciates the opportunity to provide you with these environmental consulting services. If you have any further questions, please contact me.

Thank you



John Mahoney

Asbestos Inspector Certification Number: 10524

MEC Inc. Registration Number: 17894

X-3: non-asbestos building material / lab analysis
 A-17: asbestos containing building materials
 T-17: 'Trace' (<1%) asbestos containing building materials

**Asbestos Sample Locations
 West Annex - North Bldg.
 901 10th Avenue
 Greeley, Weld County**

5 ft Approximate Scale

All sampling and schematic features are approximate locations



Samples ASB-16-19 in lower level, south end equipment room, inactive HVAC TSI ducts

Sample ASB-20 in lower level, east side hallway approximately below main level sink location, suspended acoustic panel

		TABLE 1:		INSPECTION SAMPLE LOG - ASBESTOS					
Client:	<u>Weld County</u>	Facility:	<u>West Annex - North Building</u>						
Job No.	<u>MEC 2019.145</u>	Address:	<u>25973 CR 17, Weld County</u>						
Inspectors:	<u>John Mahoney</u>	Colo. Inspector #:		<u>10524</u>			Phone #:	<u>970-381-5951</u>	
Sampling Date: <u>12/16/2019</u>							AHERA Categories		
Sample #		Sample Location	Type Material	Friable / Non-Friable	Asbestos % *	Amount *	Condition	Disturbance Potential	Comments / Remarks
WAN-ASB1	Misc.	NE Office - Ceiling	Accoustic Panel	NF	ND		Good	Low	Worm pattern
WAN-ASB2	Misc.	Lobby	Accoustic Panel	NF	ND		Good	Low	Worm pattern
WAN-ASB3	Misc.	SE Office	Accoustic Panel	NF	ND		Good	Low	Worm pattern
WAN-ASB4	Misc.	Hall	Accoustic Panel	NF	ND		Good	Low	Worm pattern
WAN-ASB5	Misc.	NE Office	Carpet	NF	ND		Good	Low	blue
WAN-ASB6	Misc.	Lobby at sink	carpet	NF	ND		Good	Low	blue
WAN-ASB7	Misc.	NE Office	cove base	NF	ND		Good	Low	gray
WAN-ASB8	Misc.	Lobby sink	cove base	NF	ND		Good	Low	gray
WAN-ASB9	Misc.	SE Office	cove base	NF	ND		Good	Low	gray
WAN-ASB10	Misc.	Lobby sink	Wall board assembly (WBA)	F	ND		Good	Low	corner joint
WAN-ASB11	Misc.	Lobby sink	WBA	F	ND		Good	Low	drywall center
WAN-ASB12	Misc.	Lobby sink	WBA	F	ND		Good	Low	drywall center, duplicater #12
WAN-ASB13	Misc.	SE Office, south wall	Brick/mortar	F	ND		Good	Low	center at planned new breezeway connection to south bldg
WAN-ASB14	Misc.	NE Office	WBA	F	ND		Good	Low	
WAN-ASB15	Misc.	NE Office	WBA	F	ND		Good	Low	corner joint
WAN-ASB16	Misc.	Basement - Equipment / Storage Room, Duct	TSI	F	white woven matl: ND off white fibrous mat: 65	34 feet	Good	Low	18 inch diameter
WAN-ASB17	Misc.	Basement - Equipment / Storage Room, Duct	TSI	F	off white insul: ND white woven matl: ND	34 feet	Good	Low	18 inch diameter
WAN-ASB18	Misc.	Basement - Equipment / Storage Room, Duct	TSI	F	white woven matl: ND off white fibrous mat: 65	34 feet	Good	Low	18 inch diameter
WAN-ASB19	Misc.	Basement - Equipment / Storage Room, Duct	TSI	F	white woven matl: ND gray insualtion: 8	34 feet	Good	Low	18 inch diameter
WAN-ASB20	Misc.	Basement - Hall, ceiling	Accoustic Panel	F	ND	"	Good	Low	ceiling lower level below main remodel main floor area
WAN-ASB21	Misc.	Exterior brick wall south	Brick / mortar	F	ND	"	Good	Low	planned wall cutout access for breezeway
WAN-ASB22	Misc.	Exterior brick wall south	Brick / mortar	F	ND	"	Good	Low	planned wall cutout access for breezeway
* Note, see text for estimates on the amount of materials. The amount of materials should be verified by the abatement contractor.									
* Note, Only the materials or layers that were observed to contain asbestos in the laborartory analysis are listed. Please refer to the laboratory report for a detailed derscription of the layers.									



December 20, 2019

Subcontractor Number:

Laboratory Report: RES 452250-1

Project #/P.O. #: 2019.145

Project Description: WC West Annex - North

John Mahoney
Mahoney Environmental
1601 10th Avenue
Greeley CO 80631

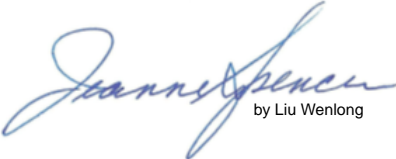
Dear John,

Reservoirs Environmental, Inc. is an analytical laboratory accredited for the analysis of Industrial Hygiene and Environmental matrices by the National Voluntary Laboratory Accreditation Program (NVLAP), Lab Code 101896-0 for Transmission Electron Microscopy (TEM) and Polarized Light Microscopy (PLM) analysis and the American Industrial Hygiene Association (AIHA), Lab ID 101533 - Accreditation Certificate #480 for Phase Contrast Microscopy (PCM) analysis. This laboratory is currently proficient in both Proficiency Testing and PAT programs respectively.

Reservoirs Environmental, Inc. has analyzed the following samples for asbestos content as per your request. The analysis has been completed in general accordance with the appropriate methodology as stated in the attached analysis table. The results have been submitted to your office.

RES 452250-1 is the job number assigned to this study. This report is considered highly confidential and the sole property of the customer. Reservoirs Environmental, Inc. will not discuss any part of this study with personnel other than those of the client. The results described in this report only apply to the samples analyzed. This report must not be used to claim endorsement of products or analytical results by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without written approval from Reservoirs Environmental, Inc. Samples will be disposed of after sixty days unless longer storage is requested. If you have any questions about this report, please feel free to call 303-964-1986.

Sincerely,



by Liu Wenlong

Jeanne Spencer
President

RESERVOIRS ENVIRONMENTAL INC.

NVLAP Lab Code 101896-0

TABLE: PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: **RES 452250-1**
 Client: **Mahoney Environmental**
 Client Project Number / P.O.: **2019.145**
 Client Project Description: **WC West Annex - North**
 Date Samples Received: **December 20, 2019**
 Method: **EPA 600/R-93/116 - Short Report, Bulk**
 Turnaround: **Priority**
 Date Samples Analyzed: **December 20, 2019**

ND=None Detected
 TR=Trace, <1% Visual Estimate
 Trem/Act=Tremolite/Actinolite

Client Sample Number	L A Y E R	Physical Description	Sub Part (%)	Asbestos Content		Non Asbestos Fibrous Components (%)	Non-Fibrous Components (%)
				Mineral	Visual Estimate (%)		
WAN-ASB1	A	Tan/white ceiling tile	100		ND	65	35
WAN-ASB2	A	Tan/white ceiling tile	100		ND	65	35
WAN-ASB3	A	Tan/white ceiling tile	100		ND	65	35
WAN-ASB4	A	Tan/white ceiling tile	100		ND	65	35
WAN-ASB5	A	Blue/multi-colored carpet	100		ND	45	55
WAN-ASB6	A	Blue/multi-colored carpet	100		ND	45	55
WAN-ASB7	A	Beige adhesive	6		ND	0	100
	B	Gray cove base	94		ND	0	100
WAN-ASB8	A	Beige adhesive	2		ND	0	100
	B	Gray cove base	98		ND	0	100
WAN-ASB9	A	Beige adhesive	8		ND	0	100
	B	Gray cove base	92		ND	0	100

TEM Analysis recommended for organically bound material (i.e. floor tile) if PLM results are <1%.

RESERVOIRS ENVIRONMENTAL INC.

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Client Sample Number	L A Y E R	Physical Description	Sub Part (%)	Asbestos Content		Non Asbestos Fibrous Components (%)	Non-Fibrous Components (%)
				Mineral	Visual Estimate (%)		
WAN-ASB10	A	White joint compound	3		ND	0	100
	B	White tape	6		ND	90	10
	C	White texture w/ white paint	8		ND	0	100
	D	White/tan drywall	83		ND	20	80
WAN-ASB11	A	White joint compound	6		ND	0	100
	B	White tape	8		ND	90	10
	C	White texture w/ white paint	15		ND	0	100
	D	White/tan drywall	71		ND	35	65
WAN-ASB12	A	White texture w/ white paint	8		ND	0	100
	B	White/tan drywall	92		ND	15	85
WAN-ASB13	A	White texture w/ white paint	6		ND	0	100
	B	Off white/tan drywall	94		ND	10	90

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Client Sample Number	L A Y E R	Physical Description	Sub Part (%)	Asbestos Content		Non Asbestos Fibrous Components (%)	Non-Fibrous Components (%)
				Mineral	Visual Estimate (%)		
WAN-ASB14	A	White texture w/ white paint	8		ND	0	100
	B	White/tan drywall	92		ND	15	85
WAN-ASB15	A	White tape	3		ND	90	10
	B	White joint compound	20		ND	0	100
	C	White texture w/ white paint	25		ND	0	100
	D	White/tan drywall	52		ND	20	80
WAN-ASB16	A	White fibrous woven material w/ white paint	20		ND	90	10
	B	Off white fibrous material	80	Chrysotile	65	15	20
WAN-ASB17	A	Off white insulation	25		ND	15	85
	B	White fibrous woven material w/ white paint	75		ND	90	10
WAN-ASB18	A	White fibrous woven material w/ white paint	25		ND	90	10
	B	Off white fibrous material	75	Chrysotile	65	15	20

TEM Analysis recommended for organically bound material (i.e. floor tile) if PLM results are <1%.

RESERVOIRS ENVIRONMENTAL INC.

NVLAP Lab Code 101896-0

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Client Sample Number	L A Y E R	Physical Description	Sub Part (%)	Asbestos Content		Non Asbestos Fibrous Components (%)	Non-Fibrous Components (%)
				Mineral	Visual Estimate (%)		
WAN-ASB19	A	White fibrous woven material	35		ND	95	5
	B	Gray insulation	65	Chrysotile	8	15	77
WAN-ASB20	A	Tan/white ceiling tile	100		ND	65	35
WAN-ASB21	A	Gray/multi-colored granular material	100		ND	0	100
WAN-ASB22	A	Gray/multi-colored granular material	100		ND	0	100

TEM Analysis recommended for organically bound material (i.e. floor tile) if PLM results are <1%.


Landon Spells

Analyst


Liu Wenlong

Data QA



RES Job #: 452250

SUBMITTED BY		INVOICE TO		CONTACT INFORMATION		SERIES	
Company:	MAHONEY ENVIRONMENTAL	Company:	MAHONEY ENVIRONMENTAL	Contact:	JOHN MAHONEY	-1 PLM PRIORITY	
Address:	1601 10TH AVENUE	Address:	1601 10TH AVENUE	Phone:	(970) 381-5951		
	GREELEY, CO 80631		GREELEY, CO 80631	Fax:			
Project Number and/or P.O. #:	2019.145			Cell:			
Project Description/Location:				Final Data Deliverable Email Address:			
				JMAHONEY2644@COMCAST.NET			

ASBESTOS LABORATORY HOURS: Weekdays: 7am - 7pm & Sat. 8am - 5pm				REQUESTED ANALYSIS				VALID MATRIX CODES		LAB NOTES				
PLM / PCM / TEM	DTL	RUSH	PRIORITY STANDARD					Air = A	Bulk = B					
CHEMISTRY LABORATORY HOURS: Weekdays: 8am - 5pm								Dust = D	Food = F					
Dust		RUSH	PRIORITY STANDARD					Paint = P	Soil = S					
Metals		RUSH	PRIORITY STANDARD					Surface = SU	Swab = SW					
Organics*		SAME DAY	RUSH PRIORITY STANDARD					Tape = T	Wipe = W					
MICROBIOLOGY LABORATORY HOURS: Weekdays: 8am - 5pm								Drinking Water = DW						
Viable Analysis**		PRIORITY	STANDARD					Waste Water = WW						
Medical Device Analysis		RUSH	STANDARD					**ASTM E1792 approved wipe media only**						
Mold Analysis		RUSH	PRIORITY STANDARD											
Turnaround times establish a laboratory priority, subject to laboratory volume and are not guaranteed. Additional fees apply for afterhours, weekends and holidays.														
Special Instructions:				PLM - Short Report	Long Report	CARB 435								
Client Sample ID Number (Sample ID's must be unique)				TEM - AHERA, (+/- or Quantified) Microcystis (+/- or Quantified)	Wipe (+/- or Quantified), NIOSH 7402, ISO 10312, ISO 13794, Chatfield, Waste Water, Drinking Water, Bulk +/-	PCM - 7400A, 7400B, OSHA	DUST - Total, Respirable	METALS - Analyte(s)	Lead Only (7082, 7420, Waste Water, Foodware), Multi Metal (7303, 6020A, 200.8, Waste Water, Foodware), pH (Liquid, Non-Liquid), TCLP, RCRA 8 Scan, Welding Fume Scan, Full Metals Scan	ORGANICS - Methamphetamine, TSS	Viabiles	MEDICAL - Bioburden, LAL	MOLD - Spore Trap, Bulk Mold, Particulate Identification	
				ASBESTOS	CHEMISTRY	MICROBIOLOGY		Sample Volume (L) / Area	Matrix Code	Date Collected mm/dd/yy	Laboratory Analysis Instructions			
1 WAN-ASB1				X					B	12/16/19				
2 WAN-ASB2				X					B	12/16/19				
3 WAN-ASB3				X					B	12/16/19				
4 WAN-ASB4				X					B	12/16/19				
5 WAN-ASB5				X					B	12/16/19				
6 WAN-ASB6				X					B	12/16/19				
7 WAN-ASB7				X					B	12/16/19				
8 WAN-ASB8				X					B	12/16/19				
9 WAN-ASB9				X					B	12/16/19				
10 WAN-ASB10				X					B	12/16/19				
11 WAN-ASB11				X					B	12/16/19				
12 WAN-ASB12				X					B	12/16/19				
13 WAN-ASB13				X					B	12/16/19				

REI will analyze incoming samples based on information received and will not be responsible for errors or omissions in calculations resulting from the inaccuracy of original data. By signing, client/company representative agrees that submission of the following samples for requested analysis as indicated on this Chain of Custody shall constitute an analytical services agreement with payment terms of NET 30 days. Failure to comply with payment terms may result in a 1.5% monthly interest surcharge.

Relinquished By:	Date/Time:	Sample Condition: ACCEPTABLE - INTACT
Received By:	BRETT COLBERT	Date/Time: 12/20/2019 6:47:48
		Carrier: DROPBOX



Res Job#: 452250

Submitted By: MAHONEY ENVIRONMENTAL

Client Sample ID Number <small>(Sample ID's must be unique)</small>	REQUESTED ANALYSIS			VALID MATRIX CODES		LAB NOTES
	ASBESTOS	CHEMISTRY	MICROBIOLOGY	Sample Volume (L) / Area	Date Collected mm/dd/yy	Laboratory Analysis Instructions
14 WAN-ASB14	X			B	12/16/19	
15 WAN-ASB15	X			B	12/16/19	
16 WAN-ASB16	X			B	12/16/19	
17 WAN-ASB17	X			B	12/16/19	
18 WAN-ASB18	X			B	12/16/19	
19 WAN-ASB19	X			B	12/16/19	
20 WAN-ASB20	X			B	12/16/19	
21 WAN-ASB21	X			B	12/16/19	
22 WAN-ASB22	X			B	12/16/19	

PLM - Short Report , Long Report, CARB 435 TEM - AHERA, (+/- or Quantified), Microvac (+/- or Quantified), Wipe (+/- or Quantified), NIOSH 7402, ISO 10312, ISO 13794, Chalifield, Waste Water, Drinking Water, Bulk +/- PCM - 7400A, 7400B, OSHA DUST - Total, Respirable METALS - Analyte(s) Lead Only (7082, 7420, Waste Water, Foodware), Multi Metal (7303, 6020A, 200.8, Waste Water, Foodware), pH (Liquid, Non-Liquid), TCLP, RCRA 8 Scan, Welding Fume Scan, Full Metals Scan ORGANICS - Methamphetamine, TSS Viabiles Campylobacter, Bacillus, Salmonella (Culturable, 1-2), Listeria, E.coli O157:H7, E.coli/Coliforms - Plated, S. aureus, Yeast & Mold, Aerobic Plate Count, Coliforms/E.coli (State Water, Drinking Water, Non-Drinking Water, +/- Quantification), Lactic Acid, Viable Microbial Count (w/ID), Enterococcus (+/- or Quantification) MEDICAL - Bioburden, LAL MOLD - Spore Trap, Bulk Mold, Particulate Identification	Air = A	Bulk = B	Drinking Water = DW Waste Water = WW **ASTM E1792 approved wipe media only**
	Dust = D	Food = F	
	Paint = P	Soil = S	
	Surface = SU	Swab = SW	
	Tape = T	Wipe = W	
	Matrix Code		
	Date Collected		
	LAB NOTES		
	Laboratory Analysis Instructions		



Mr. Toby Taylor, Building Maintenance Coordinator
Weld County Building Dept.
P.O. Box 758
Greeley, Co. 80632

January 17, 2020

RE: Asbestos Inspection – Weld County West Annex – South Building, 903-909 10th Avenue, Greeley;
MEC #2019.145

Mr. Taylor,

The following memo documents the results of the asbestos inspection of the West Annex -South Building located at 903-909 10th Avenue, Greeley. The subject building is one of two structures associated with the subject parcel, and is identified as Building 2, per the Weld County Assessor property report for parcel # 096105330009. The assessor record indicates that the building was constructed in circa 1957.

A total of sixty four (64) building material samples were collected from the subject building on December 16, 2019 and January 8, 2020. The sampling confirmed asbestos compound in the wall board assembly joint compound materials in the west side of the building (storage room, hallway and restroom area.

In addition, asbestos was detected in the non-friable white floor tile (6 square feet) in the hall south closet and the non-friable mastic for the bottom floor tile layer in the men and women restrooms (52 square feet).

Scope of Work

The objective of this asbestos sampling inspection was to determine the presence of asbestos containing building materials (ASBM) in the subject structure for a planned building renovation. MEC Inc. was verbally informed that the current renovation plans include the complete removal of all walls and interior finishes. The renovation plans also include the construction of a connection breezeway from the north side of the building to the adjacent north building.

Property Description

The subject Building 1 structure is 2640 square foot (SF) concrete block / brick building. There is not below grade or basement area.

The interior finish includes a painted texture drywall walls and ceiling, and carpet floor covering in the office areas. Two layers floor tiles are present in the closets and bathrooms. One layer of floor tile is present below the southwest side office area. The HVAC system units are located on the roof and supply and return is through a ceiling plenum. The walls and ceiling in the restrooms and hallway are smooth painted drywall materials.

General Information - Asbestos-Containing Material (ACM)

Asbestos is a generic term for a group of naturally-occurring minerals that separate into fibers. The most widely used in industry are chrysotile and amosite. Other types include crocidolite, tremolite, anthophyllite, and actinolite. According to the U. S. Environmental Protection Agency (EPA), friable asbestos is asbestos-containing material that can be crumbled, pulverized, or reduced to powder by hand pressure. As friable asbestos-containing material ages, it can lose its cohesive structure and release fibers into the air.

Asbestos containing materials are defined by the EPA as materials with greater than (>) 1 percent (%) of asbestos. Materials with detected asbestos but at concentrations less than (<) 1 percent are considered as 'trace' materials. Trace materials are not considered as asbestos containing but appropriate precautions in handling or disturbing these materials are necessary as required by OSHA.

Whether friable or non-friable, the primary goal in minimizing risk of asbestos-related illnesses is the identification and subsequent management of all ACMs present in a building. The identification of potential asbestos containing materials, in public and commercial buildings, is necessary to limit the releases of asbestos fibers during demolition, remodeling, or renovations.

Asbestos Sampling Results

MEC Inc. collected a total of sixty one (61) representative samples, of potential suspect asbestos containing materials from the building. Such materials include: painted texture drywall, non-texture painted drywall, carpet, acoustic ceiling panels, cove baseboard molding, and brick./mortar. The attached site schematic illustrates the approximate location of the sampling locations and the sampling results are summarized in Table 1, sampling table.

Floor tiles were found below the carpet in hallway and the SE offices. These tiles and associated mastic were non-asbestos containing. Floor tiles were not found in the remainder north/east side of the building.

The building is considered to include 2 homogeneous areas (west and east side) based on physical appearance and use. The majority of the west side is characterized by smooth painted wall and ceiling materials with functional spaces such as: storage, hallway, and restrooms. The east side is characterized by newer construction office areas with ceiling and wallboard painted knock-down texture. The table below summarizes the type of building materials sampled.

Building (Homogeneous Areas)	Functional Space >>>>	Office Area	Restrooms Storeroom, Hallway	Exterior	Interior
Drywall		9	15		
Floor Covering - Carpet		3			
Floor tile		16			
Ceiling insulation		1			
Fiber Ceiling Tiles and glue dot		3			
Concrete block filler			2		

Cove Base Molding		3			
HVAC Gray Duct Tape		1			
Brick and mortar				1	2

Confirmed Asbestos Containing Materials / Physical Risk Assessment

The inspection identified the following asbestos containing materials three types of asbestos containing materials, are summarized below. The location of these asbestos containing materials are illustrated on the site schematic.

As summarized in the sampling table the smooth surface wallboard assembly (WBA) drywall materials in the west side of the building had asbestos containing compound materials, > 1%. Overall, the composite calculations for these samples ranged from <1% to >1%. The lab results are summarized in Table 1. The majority of the WBA was observed to be in good condition, with localized damage and water damage. This materials is considered to be friable.

A limited amount 6 SF of asbestos containing white floor tiles were identified in the hallway south closet. These materials were observed to be in good condition. This materials is considered to be non-friable.

Asbestos containing floor tile mastic (cream/yellow color), approximately 52 SF was found in the restroom areas. Sampling of floor tile and mastic observed in the building (exposed and below the carpet) did not identify additional asbestos containing mastic. This materials is considered to be non-friable.

The information below summarizes evaluation of the physical risk assessment of the confirmed or assumed asbestos containing materials. All materials are classified as Friable or Non-Friable at the time of the inspection and sample collection. The inspection determined Risk Categories for identified asbestos containing materials are summarized below.

7 AHERA Categories of Damage (condition/potential for disturbance categories)

- 1) TSI Damage or Significantly damage
- 2) Damage Friable Surfacing ACM
- 3) Significantly Damage Friable Surfacing ACM
- 4) Damage or Significantly Damaged Friable Surfacing ACM
- 5) ACBM with potential for damage
- 6) ACBM with potential for significant damage
- 7) Any remaining friable ACBM or friable suspect ACBM

% of Observed Damage Determination:

CONDITION	Local	Distributed
Good	0 %	Minimal
Damage	< 25 %	< 10 %
Significantly Damage	> 25 %	> 10 %

Materials	Location	Sample #s	Risk Category	Amount of Materials	Comment
Joint Compound Painted Smooth Drywall	Hall, Bathroom, Storage Rm	WAS- ASB27,29,30,42,47, 49,50,51,61	7	1987 SF	
Floor Tile – White	South Hall closet	WAS-ASB4,5	5	6 SF	
Floor Tile - Mastic	Men and Womens Bathroom	WAS-ASB36,37,54	5	52	6x6 below surface tile



White floor tile, 6 SF, in south closet in hallway.



Mastic below the lower brown floor tile layer in the mens and women restroom contained asbestos at > 1%.



View of wallboard material in storeroom with asbestos wallboard assembly compound > 1%.

Findings and Recommendations

Asbestos containing building materials were not identified in the materials collected from the primary remodeling area.

The asbestos containing floor tile in the south hall closet and the floor tile mastic in the restrooms contain asbestos at a concentration >1%. The materials are considered to be non-friable. This materials should be removed in an appropriate manner for the planned remodeling activities.

Asbestos was also detected in the joint compound of the smooth surface wall and ceiling drywall materials in the hallway, storage room, and restrooms. The laboratory composite calculation results for these asbestos containing materials were < 1 % and > 1% of the WBA materials. Based on these wall board materials are considered to be asbestos containing materials (ACMs). It is recommended that these materials be removed in an appropriate manner

The above ACMs should be abated by a certified abatement contractor..

MEC Inc appreciates the opportunity to provide you with these environmental consulting services. If you have any further questions, please contact me.

Thank you

John Mahoney

John Mahoney

Asbestos Inspector Certification Number: 10524

MEC Inc. Registration Number: 17894


LAB RESULTS Legend


X-3: non-asbestos building material / lab analysis


A-17: asbestos containing building materials


T-17: 'Trace' (<1%) asbestos containing building materials


TC-17: 'Trace Composite Calculation'


 Joint Compound with Asbestos, Drywall

 Floor tile or Mastic with Asbestos

 Walls with asbestos joint compound

 Ceiling with asbestos joint compound

 Restrooms Lower Floor Tile Mastic on concrete floor

 5 ft Approximate Scale

Asbestos Sample Locations

West Annex - South Bldg.

903-909 10th Avenue

Greeley, Weld County

All sampling and schematic features are approximate locations

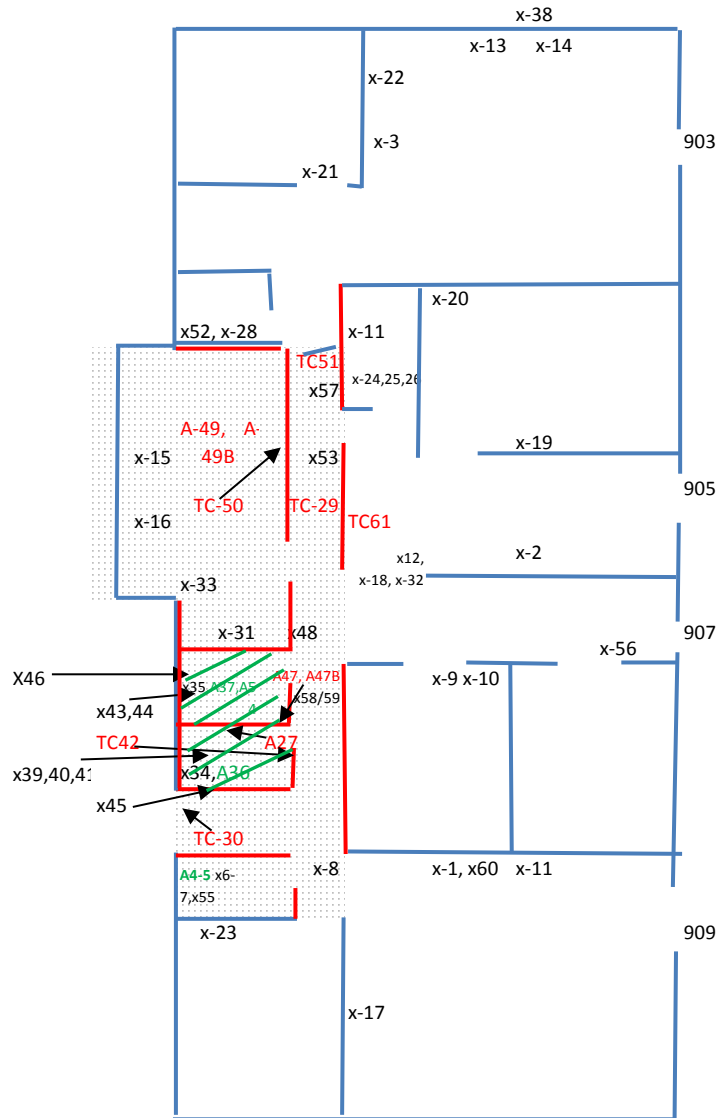


		TABLE 1:		INSPECTION SAMPLE LOG - ASBESTOS					
Client:	Weld County	Facility:	West Annex - South Building						
Job No.	MEC 2019.144	Address:	903-909 10th Avenue, Greeley						
Inspectors:	John Mahoney	Colo. Inspector #:	10524				Phone #:	970-381-5951	
Sampling Date: 12/16/2019 & 1/8/2020						AHERA Categories			
Sample #		Sample Location	Type Material	Friable / Non-Friable	Asbestos % *	Amount *	Condition	Disturbance Potential	Comments / Remarks
WAS-ASB1	Misc.	909 - SE Office	Cove Base	NF	ND		Good	Low	Gray
WAS-ASB2	Misc.	907 - Office	Cove Base	NF	ND		Good	Low	Gray
WAS-ASB3	Misc.	903 - NE Office	Cove Base	NF	ND		Good	Low	Gray
WAS-ASB4	Misc.	Closet, South Hall	Floor tile 9x9	NF	off white tile: 3% dark orange adhesive: ND		Good	Low	white
WAS-ASB5	Misc.	Closet, South Hall	Floor tile 9x9	NF	off white tile: 3% dark orange adhesive: ND	6 SF	Good	Low	white
WAS-ASB6	Misc.	Closet, South Hall	Floor tile 2x2	NF	ND		Good	Low	brown
WAS-ASB7	Misc.	Closet, South Hall	Floor tile 2x2	NF	ND		Good	Low	brown
WAS-ASB8	Misc.	Closet door, South Hall	Carpet, Floor level	NF	ND		Good	Low	blue
WAS-ASB9	Misc.	907 - Office	Carpet, Floor level	NF	ND		Good	Low	blue
WAS-ASB10	Misc.	907 - Interior Office	Floor Tile	NF	ND		Good	Low	below carpet
WAS-ASB11	Misc.	907 - Closet	Carpet	NF	ND		Good	Low	blue
WAS-ASB12	Misc.	907 - interior door	Floor Tile	NF	ND		Good	Low	below carpet
WAS-ASB13	Misc.	North Wall	Brick & Grout	NF	ND		Good	Low	
WAS-ASB14	Misc.	North Wall	Brick & Grout	NF	ND		Good	Low	
WAS-ASB15	Misc.	Store Room	concrete filler	NF	ND		Good	Low	White Paint
WAS-ASB16	Misc.	Store Room	concrete filler	NF	ND		Good	Low	White Paint
WAS-ASB17	Misc.	909 office north wall	Wall board assembly (WBA)	F	ND		Unknown	Low	White paint
WAS-ASB18	Misc.	907 interior officel,	WBA	F	ND		Unknown	Low	at duct penetration
WAS-ASB19	Misc.	907 interior officel	WBA	F	ND		Unknown	Low	brown paint
WAS-ASB20	Misc.	907 interior officel	WBA	F	ND		Unknown	Low	brown paint, dup w ASB19
WAS-ASB21	Misc.	903 office	WBA	F	ND		Good	Low	corner joint
WAS-ASB22	Misc.	903 office, ceiling corner joint	WBA	F	ND		Good	Low	corner joint
WAS-ASB23	Misc.	SW office	WBA	F	ND		Good	Low	corner joint
WAS-ASB24	Misc.	907 - Interior Closet, ceiling	fiber board and glue dot	F	ND		Good	Low	
WAS-ASB25	Misc.	907 - Interior Closet, ceiling	fiber board and glue dot	F	ND		Good	Low	
WAS-ASB26	Misc.	907 - Interior Closet, ceiling	fiber board and glue dot	F	ND		Good	Low	
WAS-ASB27	Misc.	Mens Bathroom	WBA and joint tape	F	white paint: ND tape: ND 4% drywall: ND offwhite compnd: 4% COMPOSITE CALCULATION: 2.25		Good	Low	at vent penetration

WAS-ASB27B	Misc.	Mens Bathroom	WBA and joint tape	F	white paint: ND tape: ND 4% point count: 3.5% ND point count: 4	white white cmpnd: drywall: white joint cmpnd: 4% COMPOSITE CALCULATION:	Good	7 / Low	offset confirmation of sample ASB27
WAS-ASB28	Misc.	Storeroom	WBA	F	ND		Good	Low	No Texture
WAS-ASB29	Misc.	Hall	WBA	F	white paint: ND cmpnd: 3% ND	offwhite drywall: COMPOSITE CALCULATION: 0.23	Good	Low	No Texture
WAS-ASB30	Misc.	Hall	WBA	F	white paint: ND cmpnd: 3% ND	offwhite drywall: COMPOSITE CALCULATION: 0.5	Good	Low	at nail hole
WAS-ASB31	Misc.	Hall, north closet	WBA	F	ND		Good	Low	
WAS-ASB32	Misc.	907 - ceiling	insulation	F	ND		good	low	
WAS-ASB33	Misc.	907 - ceiling	duct tape joint	F	ND		good	low	gray
WAS-ASB34	Misc.	Mens Bathroom	FT	NF	ND		good low		white, top
WAS-ASB35	Misc.	Womens Bathroom	FT	NF	ND		good low		white, top
WAS-ASB36	Misc.	Mens Bathroom	FT	NF	tan tile: ND tan adhesive: 3%	24 SF	good low		brown, below surface tile
WAS-ASB37	Misc.	Womens Bathroom	FT	NF	tan tile: ND tan adhesive: 3%	30 SF	good low		brown, below surface tile
WAS-ASB38	Misc.	Exterior north wall	Brick & Grout	NF	ND		good	LOW	approx area of new breezeway
1/8/2020									
WAS-ASB39	Misc.	Mens Bathroom, ceiling duct	Overspray	F	ND		good low		
WAS-ASB40	Misc.	Mens Bathroom, ceiling duct	Overspray	F	ND		good low		dup 39
WAS-ASB41	Misc.	Mens Bathroom, ceiling pipe	Overspray	F	ND		good low		
WAS-ASB42	Misc.	Mens Bathroom, ceiling	WBA, corner joint	F	white drywall: ND compound: 3 White compound w white paint: ND CALCULATION: 1.0	Offwhite white tape: ND COMPOSITE	good low		
WAS-ASB43	Misc.	Womens Bathroom, ceiling duct	Overspray	F	ND		good low		
WAS-ASB44	Misc.	Womens Bathroom, ceiling pipe	Overspray	F	ND		good low		
WAS-ASB45	Misc.	Mens Bath	WBA	F	ND		good low		mid wall sample
WAS-ASB46	Misc.	Womens Bath	WBA	F	ND		good low		mid wall sample
WAS-ASB47	Misc.	Womens Bath	WBA	F	white drywall: ND compound: 3 OffWhite compound: 3% mutlicolor paint: ND CALCULATION: 1.28	Offwhite white tape: ND white COMPOSITE	good low		
WAS-ASB47B	Misc.	Womens Bath	WBA	F	white drywall: ND compound: 3 tape: ND compound: 4% , point count 3.75% white paint: ND	white white White joint COMPOSITE	good low		offset confirmation of sample ASB47
WAS-ASB48	Misc.	Hallway, near storeroom door		F	ND		good low		mid wall sample

WAS-ASB49	Misc.	Storeroom Ceiling	WBA	F	white drywall: ND compound: 3 white paint: ND CALCULATION: 2.21	Offwhite white tape: ND COMPOSITE		good low	joint water damage
WAS-ASB49B	Misc.	Storeroom Ceiling	WBA	F	white drywall: ND compound: 3 4% point count: 3.5 white tape: ND paint: ND compound 4%, point count 4.0 COMPOSITE	white white white joint COMPOSITE		good low	offset confirmation of sample ASB47, joint water damage
WAS-ASB50	Misc.	Storeroom Ceiling	WBA	F	white drywall: ND compound: 3 COMPOSITE CALCULATION: 0.4	Offwhite white paint: ND COMPOSITE		good low	
WAS-ASB51	Misc.	Hallway at north door	WBA	F	white drywall: ND compound: 3 offwhite joint cmpd: 4 paint: ND CALCULATION: 0.75	Offwhite white tape: ND white COMPOSITE		good low	corner joint
WAS-ASB52	Misc.	Hallway, closet north end	WBA	F		ND		good low	mid wall sample
WAS-ASB53	Misc.	Hallway, east wall	WBA	F		ND		good low	mid wall sample
WAS-ASB54	Misc.	Womens Bathroom	FT	NF	tan tile: ND offwhite adhesive: ND tan adhesive: 2%		30 SF	good low	brown, below surface tile
WAS-ASB55	Misc.	Hall Closet, south end	FT	NF		ND		good low	2x2
WAS-ASB56	Misc.	Office 907	FT	NF		ND		good low	2x2
WAS-ASB57	Misc.	Hall -north end	FT	NF		ND		good low	below carpet
WAS-ASB58	Misc.	Hall -north end	FT	NF		ND		good low	below carpet, 2x2 tile
WAS-ASB59	Misc.	Hall -north end	FT	NF		ND		good low	below carpet, 6x6 tile
WAS-ASB60	Misc.	Rm 909	WBA	F		ND		good low	
WAS-ASB61	Misc.	Rm 907	WBA	F	white drywall: ND Offwhite compound w white paint: ND offwhite joint cmpd: 3 white multicolor paint: ND COMPOSITE CALCULATION: 0.34			good low	
* Note, see text for estimates on the amount of materials. The amount of materials should be verified by the abatement contractor.									
* Note, Only the materials or layers that were observed to contain asbestos in the laboratory analysis are listed. Please refer to the laboratory report for a detailed description of the layers.									



January 14, 2020

Subcontractor Number:

Laboratory Report: RES 452251-1R

Project #/P.O. #: 2019.144

Project Description: WC West Annex - South

John Mahoney
Mahoney Environmental
1601 10th Avenue
Greeley CO 80631

Dear John,

Reservoirs Environmental, Inc. is an analytical laboratory accredited for the analysis of Industrial Hygiene and Environmental matrices by the National Voluntary Laboratory Accreditation Program (NVLAP), Lab Code 101896-0 for Transmission Electron Microscopy (TEM) and Polarized Light Microscopy (PLM) analysis and the American Industrial Hygiene Association (AIHA), Lab ID 101533 - Accreditation Certificate #480 for Phase Contrast Microscopy (PCM) analysis. This laboratory is currently proficient in both Proficiency Testing and PAT programs respectively.

Reservoirs Environmental, Inc. has analyzed the following samples for asbestos content as per your request. The analysis has been completed in general accordance with the appropriate methodology as stated in the attached analysis table. The results have been submitted to your office.

RES 452251-1R is the job number assigned to this study. This report is considered highly confidential and the sole property of the customer. Reservoirs Environmental, Inc. will not discuss any part of this study with personnel other than those of the client. The results described in this report only apply to the samples analyzed. This report must not be used to claim endorsement of products or analytical results by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without written approval from Reservoirs Environmental, Inc. Samples will be disposed of after sixty days unless longer storage is requested. If you have any questions about this report, please feel free to call 303-964-1986.

Sincerely,



by Piper-Lenore Murphy

Jeanne Spencer
President

RESERVOIRS ENVIRONMENTAL INC.

NVLAP Lab Code 101896-0

TABLE: PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: **RES 452251-1R**
 Client: **Mahoney Environmental**
 Client Project Number / P.O.: **2019.144**
 Client Project Description: **WC West Annex - South**
 Date Samples Received: **December 20, 2019**
 Method: **EPA 600/R-93/116 - Short Report, Bulk**
 Turnaround: **Priority**
 Date Samples Analyzed: **December 20, 2019**

ND=None Detected
 TR=Trace, <1% Visual Estimate
 Trem/Act=Tremolite/Actinolite

Client Sample Number	LAYER	Physical Description	Sub Part (%)	Asbestos Content		Non Asbestos Fibrous Components (%)	Non-Fibrous Components (%)
				Mineral	Visual Estimate (%)		
WAS-ASB1	A	Cream adhesive	5		ND	0	100
	B	Beige cove base	95		ND	0	100
WAS-ASB2	A	Cream adhesive	5		ND	0	100
	B	Beige cove base	95		ND	0	100
WAS-ASB3	A	Cream adhesive	4		ND	0	100
	B	Beige cove base	96		ND	0	100
WAS-ASB4	A	Dark orange adhesive	5		ND	0	100
	B	Off white/multi-colored tile	95	Chrysotile	3	0	97
WAS-ASB5	A	Dark orange adhesive	5		ND	0	100
	B	Off white/multi-colored tile	95	Chrysotile	3	0	97
WAS-ASB6	A	Orange adhesive	5		ND	0	100
	B	Beige tile	95		ND	0	100
WAS-ASB7	A	Orange adhesive	5		ND	0	100
	B	Beige tile	95		ND	0	100

TEM Analysis recommended for organically bound material (i.e. floor tile) if PLM results are <1%.
 Only compound, tape and wallboard layers are used in the calculation of a composite result.

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Client Sample Number	L A Y E R	Physical Description	Sub Part (%)	Asbestos Content		Non Asbestos Fibrous Components (%)	Non-Fibrous Components (%)
				Mineral	Visual Estimate (%)		
WAS-ASB8	A	Tan/yellow adhesive	8		ND	0	100
	B	Blue/multi-colored carpet w/ gray foam backing material	92		ND	45	55
WAS-ASB9	A	Yellow adhesive	3		ND	0	100
	B	Blue/multi-colored carpet w/ gray foam backing material	97		ND	35	65
WAS-ASB10	A	Cream adhesive	4		ND	0	100
	B	Orange adhesive	6		ND	0	100
	C	Beige tile	90		ND	0	100
WAS-ASB11	A	Tan adhesive	3		ND	0	100
	B	Blue/multi-colored carpet w/ gray foam backing material	97		ND	35	65
WAS-ASB12	A	Dark cream adhesive	5		ND	0	100
	B	Orange adhesive	5		ND	0	100
	C	Beige tile	90		ND	0	100
WAS-ASB13	A	Off white/multi-colored granular material	45		ND	0	100
	B	Red brick material	55		ND	0	100

TEM Analysis recommended for organically bound material (i.e. floor tile) if PLM results are <1%.
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Client Sample Number	L A Y E R	Physical Description	Sub Part (%)	Asbestos Content		Non Asbestos Fibrous Components (%)	Non-Fibrous Components (%)
				Mineral	Visual Estimate (%)		
WAS-ASB14	A	Off white/multi-colored granular material	25		ND	0	100
	B	Red brick material	75		ND	0	100
WAS-ASB15	A	White paint w/ off white block filler	20		ND	0	100
	B	Gray/multi-colored granular material	80		ND	0	100
WAS-ASB16	A	Gray/multi-colored granular material	30		ND	0	100
	B	White paint w/ off white block filler	70		ND	0	100
WAS-ASB17	A	Off white compound w/ off white/multi-colored paint	5		ND	0	100
	B	Off white texture w/ white/multi-colored paint	8		ND	0	100
	C	White/tan drywall	87		ND	20	80
WAS-ASB18	A	Off white texture w/ white paint	40		ND	0	100
	B	White/tan drywall	60		ND	35	65
WAS-ASB19	A	White texture w/ beige/multi-colored paint	5		ND	0	100
	B	White/tan drywall w/ off white/multi-colored paint	95		ND	20	80

TEM Analysis recommended for organically bound material (i.e. floor tile) if PLM results are <1%.
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Client Sample Number	L A Y E R	Physical Description	Sub Part (%)	Asbestos Content		Non Asbestos Fibrous Components (%)	Non-Fibrous Components (%)
				Mineral	Visual Estimate (%)		
WAS-ASB20	A	White texture w/ beige paint	5		ND	0	100
	B	White/tan drywall w/ off white/multi-colored paint	95		ND	25	75
WAS-ASB21	A	Off white fibrous woven material	3		ND	90	10
	B	Off white texture w/ white paint	7		ND	0	100
	C	Off white compound w/ off white paint	15		ND	0	100
	D	White/tan drywall	75		ND	25	75
WAS-ASB22	A	Cream tape	10		ND	95	5
	B	Off white compound	15		ND	0	100
	C	Off white texture w/ white paint	25		ND	0	100
	D	White/tan drywall w/ off white/multi-colored paint	50		ND	35	65
WAS-ASB23	A	White compound w/ white paint	10		ND	0	100
	B	White/tan drywall w/ white/multi-colored paint	90		ND	25	75

TEM Analysis recommended for organically bound material (i.e. floor tile) if PLM results are <1%.
 Only compound, tape and wallboard layers are used in the calculation of a composite result.

RESERVOIRS ENVIRONMENTAL INC.

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Client Sample Number	L A Y E R	Physical Description	Sub Part (%)	Asbestos Content		Non Asbestos Fibrous Components (%)	Non-Fibrous Components (%)
				Mineral	Visual Estimate (%)		
WAS-ASB24	A	Brown adhesive w/ white paint	15		ND	0	100
	B	Yellow insulation w/ white paint	85		ND	80	20
WAS-ASB25	A	Brown adhesive w/ white paint	15		ND	0	100
	B	Yellow/gray insulation w/ white/gray paint	85		ND	80	20
WAS-ASB26	A	Brown adhesive w/ white paint	10		ND	0	100
	B	Yellow insulation w/ white/gray paint	90		ND	85	15
WAS-ASB27	A	Off white paint	7		ND	0	100
	B	White texture w/ gray paint	13		ND	0	100
	C	White tape	15		ND	95	5
	D	Off white joint compound	15	Chrysotile	4	0	96
	E	White/tan drywall	20		ND	30	70
	F	Off white compound	30	Chrysotile Composite	4	0	96
					2.25		

TEM Analysis recommended for organically bound material (i.e. floor tile) if PLM results are <1%.
 Only compound, tape and wallboard layers are used in the calculation of a composite result.

RESERVOIRS ENVIRONMENTAL INC.

NVLAP Lab Code 101896-0

TABLE: PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: **RES 452251-1R**
 Client: **Mahoney Environmental**
 Client Project Number / P.O.: **2019.144**
 Client Project Description: **WC West Annex - South**
 Date Samples Received: **December 20, 2019**
 Method: **EPA 600/R-93/116 - Short Report, Bulk**
 Turnaround: **Priority**
 Date Samples Analyzed: **December 20, 2019**

ND=None Detected
 TR=Trace, <1% Visual Estimate
 Trem/Act=Tremolite/Actinolite

Client Sample Number	L A Y E R	Physical Description	Sub Part (%)	Asbestos Content		Non Asbestos Fibrous Components (%)	Non-Fibrous Components (%)
				Mineral	Visual Estimate (%)		
WAS-ASB28	A	White paint w/ a trace of white compound	5		ND	0	100
	B	White/tan drywall	95		ND	30	70
WAS-ASB29	A	Off white compound	7	Chrysotile	3	0	97
	B	White paint	8		ND	0	100
	C	White/tan drywall	85		ND	40	60
WAS-ASB30				Composite	0.23		
	A	Off white compound	14	Chrysotile	3	0	97
	B	Off white paint	16		ND	0	100
	C	White/tan drywall	70	ND	40	60	
WAS-ASB31				Composite	0.50		
	A	White paint w/ a trace of white compound	10		ND	0	100
WAS-ASB32	B	White/tan drywall	90		ND	25	75
	A	Black resinous material	7		ND	0	100
	B	Yellow insulation w/ white paint	93		ND	90	10

TEM Analysis recommended for organically bound material (i.e. floor tile) if PLM results are <1%.
 Only compound, tape and wallboard layers are used in the calculation of a composite result.

RESERVOIRS ENVIRONMENTAL INC.

NVLAP Lab Code 101896-0

TABLE: PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: **RES 452251-1R**
 Client: **Mahoney Environmental**
 Client Project Number / P.O.: **2019.144**
 Client Project Description: **WC West Annex - South**
 Date Samples Received: **December 20, 2019**
 Method: **EPA 600/R-93/116 - Short Report, Bulk**
 Turnaround: **Priority**
 Date Samples Analyzed: **December 20, 2019**

ND=None Detected
 TR=Trace, <1% Visual Estimate
 Trem/Act=Tremolite/Actinolite

Client Sample Number	L A Y E R	Physical Description	Sub Part (%)	Asbestos Content		Non Asbestos Fibrous Components (%)	Non-Fibrous Components (%)
				Mineral	Visual Estimate (%)		
WAS-ASB33	A	Gray tape w/ white paint	100		ND	15	85
WAS-ASB34	A	Tan adhesive	4		ND	0	100
	B	Gray tile	96		ND	0	100
WAS-ASB35	A	Tan adhesive	2		ND	0	100
	B	Gray tile	98		ND	0	100
WAS-ASB36	A	Tan adhesive	15	Chrysotile	3	0	97
	B	Tan tile w/ tan adhesive	85		ND	0	100
WAS-ASB37	A	Tan adhesive	10	Chrysotile	3	0	97
	B	Tan tile w/ tan adhesive	90		ND	0	100
WAS-ASB38	A	Gray granular cementitious material	25		ND	0	100
	B	Red brick material	75		ND	0	100

TEM Analysis recommended for organically bound material (i.e. floor tile) if PLM results are <1%.
 Only compound, tape and wallboard layers are used in the calculation of a composite result.



Andrew Roberts

Analyst



Ryan Shilling

Analyst



Piper-Lenore O. Murphy

Data QA




RES Job #: 452251

SUBMITTED BY	INVOICE TO	CONTACT INFORMATION	SERIES
Company: MAHONEY ENVIRONMENTAL	Company: MAHONEY ENVIRONMENTAL	Contact: JOHN MAHONEY	-1 PLM PRIORITY
Address: 1601 10TH AVENUE	Address: 1601 10TH AVENUE	Phone: (970) 381-5951	
GREELEY, CO 80631	GREELEY, CO 80631	Fax:	
Project Number and/or P.O. #: 2019.144		Cell:	
Project Description/Location: WC WEST ANNEX - SOUTH		Final Data Deliverable Email Address: JMAHONEY2644@COMCAST.NET	

ASBESTOS LABORATORY HOURS: Weekdays: 7am - 7pm & Sat. 8am - 5pm		REQUESTED ANALYSIS				VALID MATRIX CODES		LAB NOTES
PLM / PCM / TEM	DTL RUSH PRIORITY STANDARD	PLM - Short Report , Long Report, CARB 435 TEM - AHERA , (+/- or Quantified), Microvac (+/- or Quantified) Wipe (+/- or Quantified), NIOSH 7402, ISO 10312, ISO 13794, Chatfield, Waste Water, Drinking Water, Bulk +/- PCM - 7400A, 7400B, OSHA DUST - Total, Respirable METALS - Analyte(s) Lead Only (7082, 7420, Waste Water, Foodware), Multi Metal (7303, 6020A, 200.8, Waste Water, Foodware), pH (Liquid, Non-Liquid), TCLP, RCRA 8 Scan, Welding Fume Scan, Full Metals Scan ORGANICS - Methamphetamine, TSS Campylobacter, Bacillus, Salmonella (Culturable, 1-2), Listeria, E.coli O157:H7, E.coli/Coliforms - Plated, S. aureus, Yeast & Mold, Aerobic Plate Count, Coliforms/E.coli (State Water, Drinking Water, Non-Drinking Water, +/-, Quantification), Lactic Acid, Viable Microbial Count (wo/ID, w/ID), Enterococcus (+/- or Quantification) MEDICAL - Bioburden, LAL MOLD - Spore Trap, Bulk Mold, Particulate Identification	Air = A	Bulk = B				
CHEMISTRY LABORATORY HOURS: Weekdays: 8am - 5pm			Dust = D	Food = F				
Dust	RUSH PRIORITY STANDARD		Paint = P	Soil = S				
Metals	RUSH PRIORITY STANDARD *PRIOR NOTICE REQUIRED FOR SAME DAY TAT		Surface = SU	Swab = SW				
Organics*	SAME DAY RUSH PRIORITY STANDARD		Tape = T	Wipe = W				
MICROBIOLOGY LABORATORY HOURS: Weekdays: 8am - 5pm			Drinking Water = DW					
Viable Analysis**	PRIORITY STANDARD **TAT DEPENDENT ON SPEED OF MICROBIAL GROWTH		Waste Water = WW					
Medical Device Analysis	RUSH STANDARD		**ASTM E1792 approved wipe media only**					
Mold Analysis	RUSH PRIORITY STANDARD		Sample Volume (L) / Area	Matrix Code				
Turnaround times establish a laboratory priority, subject to laboratory volume and are not guaranteed. Additional fees apply for afterhours, weekends and holidays.			Date Collected mm/dd/yy	Laboratory Analysis Instructions				
Special Instructions:								
Client Sample ID Number	(Sample ID's must be unique)	ASBESTOS	CHEMISTRY	MICROBIOLOGY				
1 WAS-ASB1		X			B	12/16/19		
2 WAS-ASB2		X			B	12/16/19		
3 WAS-ASB3		X			B	12/16/19		
4 WAS-ASB4		X			B	12/16/19		
5 WAS-ASB5		X			B	12/16/19		
6 WAS-ASB6		X			B	12/16/19		
7 WAS-ASB7		X			B	12/16/19		
8 WAS-ASB8		X			B	12/16/19		
9 WAS-ASB9		X			B	12/16/19		
10 WAS-ASB10		X			B	12/16/19		
11 WAS-ASB11		X			B	12/16/19		
12 WAS-ASB12		X			B	12/16/19		
13 WAS-ASB13		X			B	12/16/19		

REI will analyze incoming samples based on information received and will not be responsible for errors or omissions in calculations resulting from the inaccuracy of original data. By signing, client/company representative agrees that submission of the following samples for requested analysis as indicated on this Chain of Custody shall constitute an analytical services agreement with payment terms of NET 30 days. Failure to comply with payment terms may result in a 1.5% monthly interest surcharge.

Relinquished By:	Date/Time:	Sample Condition: ACCEPTABLE
Received By:  BRETT COLBERT	Date/Time: 12/20/2019 6:50:49	Carrier: DROPBOX



Res Job#: 452251

Submitted By: MAHONEY ENVIRONMENTAL

Client Sample ID Number <small>(Sample ID's must be unique)</small>	REQUESTED ANALYSIS			VALID MATRIX CODES		LAB NOTES
	ASBESTOS	CHEMISTRY	MICROBIOLOGY	Sample Volume (L) / Area	Date Collected mm/dd/yy	
14 WAS-ASB14	X			B	12/16/19	
15 WAS-ASB15	X			B	12/16/19	
16 WAS-ASB16	X			B	12/16/19	
17 WAS-ASB17	X			B	12/16/19	
18 WAS-ASB18	X			B	12/16/19	
19 WAS-ASB19	X			B	12/16/19	
20 WAS-ASB20	X			B	12/16/19	
21 WAS-ASB21	X			B	12/16/19	
22 WAS-ASB22	X			B	12/16/19	
23 WAS-ASB23	X			B	12/16/19	
24 WAS-ASB24	X			B	12/16/19	
25 WAS-ASB25	X			B	12/16/19	
26 WAS-ASB26	X			B	12/16/19	
27 WAS-ASB27	X			B	12/16/19	
28 WAS-ASB28	X			B	12/16/19	
29 WAS-ASB29	X			B	12/16/19	
30 WAS-ASB30	X			B	12/16/19	
31 WAS-ASB31	X			B	12/16/19	
32 WAS-ASB32	X			B	12/16/19	
33 WAS-ASB33	X			B	12/16/19	
34 WAS-ASB34	X			B	12/16/19	
35 WAS-ASB35	X			B	12/16/19	
36 WAS-ASB36	X			B	12/16/19	
37 WAS-ASB37	X			B	12/16/19	
38 WAS-ASB38	X			B	12/16/19	

PLM - Short Report , Long Report, CARB 435 TEM - AHERA, (+/- or Quantified), Microvac (+/- or Quantified), Wipe (+/- or Quantified), NIOSH 7402, ISO 10312, ISO 13794, Chatfield, Waste Water, Drinking Water, Bulk +/- PCM - 7400A, 7400B, OSHA DUST - Total, Respirable METALS - AnalyMetS Lead Only (7082, 7420, Waste Water, Foodware), Multi Metal (7303, 6020A, 200.8, Waste Water, Foodware), pH (Liquid, Non-Liquid), TCLP, RCRA 8 Scan, Welding Fume Scan, Full Metals Scan ORGANICS - Methamphetamine, TSS Viabiles Campylobacter, Bacillus, Salmonella (Culturable, 1-2), Listeria, E.coli O157:H7, E.coli/Coliforms - Plated, S. aureus, Yeast & Mold, Aerobic Plate Count, Coliforms/E.coli (State Water, Drinking Water, Non-Drinking Water, +/- Quantification), Lactic Acid, Viable Microbial Count (w/ID, w/ID), Enterococcus (+/- or Quantification) MEDICAL - Bioburden, LAL MOLD - Spore Trap, Bulk Mold, Particulate Identification	Air = A Dust = D Paint = P Surface = SU Tape = T Drinking Water = DW Waste Water = WW **ASTM E1792 approved wipe media only**	Bulk = B Food = F Soil = S Swab = SW Wipe = W
	Laboratory Analysis Instructions	

RES 452251

Job # _____
Page 1 of 2

REILAB Reservoirs Environmental, Inc.

5801 Logan St. Denver, CO 80216 • Ph: 303 964-1886 • Fax 303-477-4275 • Toll Free: 866 RES-ENV

After Hours Cell Phone: 720-339-9228

Due Date: _____
Due Time: _____

INVOICE TO: (IF DIFFERENT)

Company: MAHONEY ENVIRONMENTAL
Address: P.O. Box 1358
Greeley, CO 80632

CONTACT INFORMATION:

Contact: John Mahoney
Phone: 970-381-5551
Fax: _____
Cell/pager: _____

Project Number and/or P.O. #: 2019.1144
Project Description/Location: WC WEST Annex - South

Final Data Deliverable Email Address: JMAHONEY2644@comcast.net

ASBESTOS LABORATORY HOURS: Weekdays: 7am - 7pm & Sat. 8am - 5pm
PLM / PCM / TEM RUSH (Same Day) PRIORITY (Next Day) _____ STANDARD (3-5 Day)

CHEMISTRY LABORATORY HOURS: Weekdays: 8am - 5pm
Metal(s) / Dust** RUSH _____ 24 hr. _____ 3-5 Day

RCRA 8 / Metals & Welding RUSH (3 Day) _____ 5 Day _____ 10 Day
Fume Scan / TCLP** RUSH _____ 24 hr. _____ 3 day _____ 5 Day

MICROBIOLOGY LABORATORY HOURS: Weekdays: 9am - 6pm
E.coli and/or Coliforms* 24-48 Hour Other: _____

Pathogens* 24-48 Hour
Microbial Growth* 5-10 Day *TAT dependent on speed of microbial growth.*
Legionella 10 Day

Mold RUSH 24 Hr 48 Hr 3 Day 5 Day
Turnaround times establish a laboratory priority, subject to laboratory volume and are not guaranteed. Additional fees apply for afterhours, weekends and holidays.

Special Instructions:

Client sample ID number (Sample ID's must be unique)

- 1 WAS-ASB1
- 2 WAS-ASB2
- 3 WAS-ASB3
- 4 WAS-ASB4
- 5 WAS-ASB5
- 6 WAS-ASB6
- 7 WAS-ASB7
- 8 WAS-ASB8
- 9 WAS-ASB9
- 10 WAS-ASB10

Number of samples received: _____

(Additional samples shall be listed on attached long form.)

NOTE: REI will analyze incoming samples based upon information received and will not be responsible for errors or omissions in calculations resulting from the inaccuracy of original data. By signing client/company representative agrees that submission of the following samples for requested analysis as indicated on this Chain of Custody shall constitute an analytical services agreement with payment terms of NET 30 days. Failure to comply with payment terms may result in a 1.5% monthly interest surcharge.

Relinquished By: John Mahoney

Date/Time: 12/19/19 12:30:19

Hand / FedEx / UPS / Drop / Courier

Sample Condition: On Ice Sealed Intact

Temp. (F°) Yes / No Yes / No Yes / No

Yes / No Yes / No Yes / No

Laboratory Use Only

Received By: _____ Date/Time: _____

Carrier: _____

Box / Courier _____

Phone Email Fax _____

Contact _____

Date _____

Time _____

Initials _____

Contact _____

Phone Email Fax _____

Initials _____

Contact _____

Phone Email Fax _____

Date _____

Time _____

Initials _____

Initials _____

RES Job # _____ Page 2 of 2

Submitted by: Mattinet Environmental
2019.149

Client sample ID number (Sample ID's must be unique)

- 11 WAS-ASB1
- 12 WAS-AB12
- 13 WAS-ASB13
- 14 WAS-AB14
- 15 WAS-ASB15
- 16 WAS-AB16
- 17 WAS-ASB17
- 18 WAS-AB18
- 19 WAS-ASB19
- 20 WAS-AB20
- 21 WAS-ASB21
- 22 WAS-AB22
- 23 WAS-AB23
- 24 WAS-AB24
- 25 WAS-ASB25
- 26 WAS-AB26
- 27 WAS-ASB27
- 28 WAS-AB28
- 29 WAS-ASB29
- 30 WAS-AB30
- 31 WAS-AB31
- 32 WAS-AB32
- 33 WAS-ASB33
- 34 WAS-AB34
- 35 WAS-ASB35
- 36 WAS-AB36
- 37 WAS-AB37
- 38 WAS-ASB38
- 39
- 40
- 41

REQUESTED ANALYSIS		VALID MATRIX CODES				LAB NOTES:
PLM - Short report, Long report, Point Count	TEM - AHERA, Level II, 7402, ISO, +/-, Quant, Semi-quant, Micro-vac, ISO-Indirect Preps	Air = A	Bulk = B			
PCM - 7400A, 7400B, OSHA	DUST - Total, Respirable	Dust = D	Paint = P			
METALS - Analyte(s)	RCRA 8, TCLP, Welding Fume, Metals Scan	Soil = S	Wipe = W			
ORGANICS - METH		Swab = SW	F = Food			
Pathogens: Aerobic Plate Count, Salmonella, E. coli, O157:H7, Listeria, S. aureus, Campylobacter, +/- or Quantification		Drinking Water = DW	Waste Water = WW			
E. coli and/or Coliforms: +/- or Quantification		O = Other	**ASTM E1792, approved wipe media only**			
Microbial Growth: Aerobic Plate Count ID, Bacteria or Y & M: +/- or Quantification		Matrix Code	Time Collected h/mmm ap			
Legionella: +/- or Quantification		# Containers	Date Collected mmm/yyyy			
Other: Bioaer, LAL or Environmental		Sample Volume (L) / Area				
Mold: Spore Trap or Bulk: +/- or Quantification						
SAMPLER'S INITIALS OR OTHER NOTES:						



January 15, 2020

Subcontractor Number:

Laboratory Report: RES 453965-1

Project #/P.O. #: 2019.144

Project Description: West Anix - South

John Mahoney
Mahoney Environmental
1601 10th Avenue
Greeley CO 80631

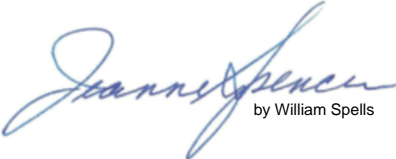
Dear John,

Reservoirs Environmental, Inc. is an analytical laboratory accredited for the analysis of Industrial Hygiene and Environmental matrices by the National Voluntary Laboratory Accreditation Program (NVLAP), Lab Code 101896-0 for Transmission Electron Microscopy (TEM) and Polarized Light Microscopy (PLM) analysis and the American Industrial Hygiene Association (AIHA), Lab ID 101533 - Accreditation Certificate #480 for Phase Contrast Microscopy (PCM) analysis. This laboratory is currently proficient in both Proficiency Testing and PAT programs respectively.

Reservoirs Environmental, Inc. has analyzed the following samples for asbestos content as per your request. The analysis has been completed in general accordance with the appropriate methodology as stated in the attached analysis table. The results have been submitted to your office.

RES 453965-1 is the job number assigned to this study. This report is considered highly confidential and the sole property of the customer. Reservoirs Environmental, Inc. will not discuss any part of this study with personnel other than those of the client. The results described in this report only apply to the samples analyzed. This report must not be used to claim endorsement of products or analytical results by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without written approval from Reservoirs Environmental, Inc. Samples will be disposed of after sixty days unless longer storage is requested. If you have any questions about this report, please feel free to call 303-964-1986.

Sincerely,



by William Spells

Jeanne Spencer
President

RESERVOIRS ENVIRONMENTAL INC.

NVLAP Lab Code 101896-0

TABLE: PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: **RES 453965-1**
 Client: **Mahoney Environmental**
 Client Project Number / P.O.: **2019.144**
 Client Project Description: **West Anix - South**
 Date Samples Received: **January 15, 2020**
 Method: **EPA 600/R-93/116 - Short Report, Bulk**
 Turnaround: **Rush**
 Date Samples Analyzed: **January 15, 2020**

ND=None Detected
 TR=Trace, <1% Visual Estimate
 Trem/Act=Tremolite/Actinolite

Client Sample Number	L A Y E R	Physical Description	Sub Part (%)	Asbestos Content		Non Asbestos Fibrous Components (%)	Non-Fibrous Components (%)
				Mineral	Visual Estimate (%)		
WAS-ASB47B	A	White paint	3		ND	0	100
	B	White tape	3		ND	90	10
	C	White compound	15	Chrysotile	4	0	96
	D	White joint compound	15	Chrysotile	4	0	96
	E	White/tan drywall	64		ND	15	85
				Composite	1.24		
WAS-ASB49B	A	White tape	2		ND	90	10
	B	White compound	15	Chrysotile	5	0	95
	C	White joint compound	15	Chrysotile	5	0	95
	D	White/tan drywall	68		ND	15	85
					Composite	1.50	

TEM Analysis recommended for organically bound material (i.e. floor tile) if PLM results are <1%.
 Only compound, tape and wallboard layers are used in the calculation of a composite result.

RESERVOIRS ENVIRONMENTAL INC.

NVLAP Lab Code 101896-0

TABLE: PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: **RES 453965-1**
 Client: **Mahoney Environmental**
 Client Project Number / P.O.: **2019.144**
 Client Project Description: **West Anix - South**
 Date Samples Received: **January 15, 2020**
 Method: **EPA 600/R-93/116 - Short Report, Bulk**
 Turnaround: **Rush**
 Date Samples Analyzed: **January 15, 2020**

ND=None Detected
 TR=Trace, <1% Visual Estimate
 Trem/Act=Tremolite/Actinolite

Client Sample Number	LAYER	Physical Description	Sub Part (%)	Asbestos Content		Non Asbestos Fibrous Components (%)	Non-Fibrous Components (%)
				Mineral	Visual Estimate (%)		
WAS-ASB27B	A	White paint	3		ND	0	100
	B	White tape	3		ND	90	10
	C	White compound	15	Chrysotile	4	0	96
	D	White joint compound	15	Chrysotile	4	0	96
	E	White/tan drywall	64		ND	10	90
				Composite	1.24		

TEM Analysis recommended for organically bound material (i.e. floor tile) if PLM results are <1%.
 Only compound, tape and wallboard layers are used in the calculation of a composite result.

Landon Spells
Landon Spells

Analyst / Data QA



RES Job #: 453965

SUBMITTED BY	INVOICE TO	CONTACT INFORMATION	SERIES
Company: MAHONEY ENVIRONMENTAL	Company: MAHONEY ENVIRONMENTAL	Contact: JOHN MAHONEY	-1 PLM RUSH
Address: 1601 10TH AVENUE	Address: 1601 10TH AVENUE	Phone: (970) 381-5951	
GREELEY, CO 80631	GREELEY, CO 80631	Fax:	
Project Number and/or P.O. #: 2019.144		Cell:	
Project Description/Location: WEST ANIX - SOUTH		Final Data Deliverable Email Address: JMAHONEY2644@COMCAST.NET	

ASBESTOS LABORATORY HOURS: Weekdays: 7am - 7pm & Sat. 8am - 5pm		REQUESTED ANALYSIS				VALID MATRIX CODES				LAB NOTES	
PLM / PCM / TEM	DTL RUSH PRIORITY STANDARD					Air = A	Bulk = B				
CHEMISTRY LABORATORY HOURS: Weekdays: 8am - 5pm						Dust = D	Food = F				
Dust	RUSH PRIORITY STANDARD					Paint = P	Soil = S				
Metals	RUSH PRIORITY STANDARD *PRIOR NOTICE REQUIRED FOR SAME DAY TAT					Surface = SU	Swab = SW				
Organics*	SAME DAY RUSH PRIORITY STANDARD					Tape = T	Wipe = W				
MICROBIOLOGY LABORATORY HOURS: Weekdays: 8am - 5pm						Drinking Water = DW					
Viable Analysis**	PRIORITY STANDARD **TAT DEPENDENT ON SPEED OF MICROBIAL GROWTH					Waste Water = VVV					
Medical Device Analysis	RUSH STANDARD					**ASTM E1792 approved wipe media only**					
Mold Analysis	RUSH PRIORITY STANDARD										
Turnaround times establish a laboratory priority, subject to laboratory volume and are not guaranteed. Additional fees apply for afterhours, weekends and holidays.											
Special Instructions:		PLM - Short Report, Long Report, CARB 435	TEM - AHERA, (+/- or Quantified), Microvac (+/- or Quantified), Wipe (+/- or Quantified), NIOSH 7402, ISO 10312, ISO 13794, Chatfield, Waste Water, Drinking Water, Bulk +/-	PCM - 7400A, 7400B, OSHA	DUST - Total, Respirable	METALS - Analyte(s) Lead Only (7082, 7420, Waste Water, Foodware), Multi Metal (7303, 8020A, 200.8, Waste Water, Foodware), pH (Liquid, Non-Liquid), TCLP, RCRA 8 Scan, Welding Fume Scan, Full Metals Scan	ORGANICS - Methamphetamine, TSS	Viabiles	MEDICAL - Bioburden, LAL	MOLD - Spore Trap, Bulk Mold, Particulate Identification	
Client Sample ID Number	(Sample ID's must be unique)	ASBESTOS	CHEMISTRY	MICROBIOLOGY	Sample Volume (L) / Area	Length (or Aliquots) x Width (or Area per Aliquot)	Matrix Code	# of Containers	Date Collected mm/dd/yy	Time Collected hh:mm	Laboratory Analysis Instructions
1 WAS-ASB47B		X					B	1	01/15/20		CMP
2 WAS-ASB49B		X					B	1	01/15/20		CMP
3 WAS-ASB27B		X					B	1	01/15/20		CMP

REI will analyze incoming samples based on information received and will not be responsible for errors or omissions in calculations resulting from the inaccuracy of original data. By signing, client/company representative agrees that submission of the following samples for requested analysis as indicated on this Chain of Custody shall constitute an analytical services agreement with payment terms of NET 30 days. Failure to comply with payment terms may result in a 1.5% monthly interest surcharge.

Relinquished By:		JOHN MAHONEY	Date/Time: 01/15/2020 11:19:45	Sample Condition: ACCEPTABLE - INTACT
Received By:		HANNA MARTI	Date/Time: 01/15/2020 11:19:45	Carrier: HAND



January 16, 2020

Subcontractor Number:

Laboratory Report: RES 453965-2

Project #/P.O. #: 2019.144

Project Description: West Anix - South

John Mahoney
Mahoney Environmental
1601 10th Avenue
Greeley CO 80631

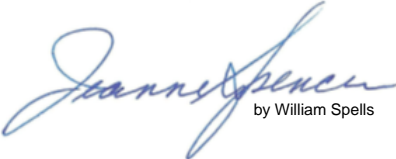
Dear John,

Reservoirs Environmental, Inc. is an analytical laboratory accredited for the analysis of Industrial Hygiene and Environmental matrices by the National Voluntary Laboratory Accreditation Program (NVLAP), Lab Code 101896-0 for Transmission Electron Microscopy (TEM) and Polarized Light Microscopy (PLM) analysis and the American Industrial Hygiene Association (AIHA), Lab ID 101533 - Accreditation Certificate #480 for Phase Contrast Microscopy (PCM) analysis. This laboratory is currently proficient in both Proficiency Testing and PAT programs respectively.

Reservoirs Environmental, Inc. has analyzed the following samples for asbestos content as per your request. The analysis has been completed in general accordance with the appropriate methodology as stated in the attached analysis table. The results have been submitted to your office.

RES 453965-2 is the job number assigned to this study. This report is considered highly confidential and the sole property of the customer. Reservoirs Environmental, Inc. will not discuss any part of this study with personnel other than those of the client. The results described in this report only apply to the samples analyzed. This report must not be used to claim endorsement of products or analytical results by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without written approval from Reservoirs Environmental, Inc. Samples will be disposed of after sixty days unless longer storage is requested. If you have any questions about this report, please feel free to call 303-964-1986.

Sincerely,



by William Spells

Jeanne Spencer
President

RESERVOIRS ENVIRONMENTAL INC.

NVLAP Lab Code 101896-0

TABLE: PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: **RES 453965-2**
 Client: **Mahoney Environmental**
 Client Project Number / P.O.: **2019.144**
 Client Project Description: **West Anix - South**
 Date Samples Received: **January 15, 2020**
 Method: **EPA 600/R-93/116 - Point Count, Bulk**
 Turnaround: **Rush**
 Date Samples Analyzed: **January 15, 2020**

ND=None Detected
 TR=Trace, <1% Visual Estimate
 Trem/Act=Tremolite/Actinolite

Client Sample Number	L A Y E R	Physical Description	Sub Part (%)	Asbestos Content		Non Asbestos Fibrous Components (%)	Non-Fibrous Components (%)
				Mineral	Visual Estimate (%)		
WAS-ASB47B	A	White paint	3		ND	0	100
	B	White tape	3		ND	90	10
	C	White compound	15	Chrysotile	4	0	96
	D	White joint compound	15	Point Count Chrysotile	3.00 4	0	96
	E	White/tan drywall	64	Point Count Composite	3.75 1.04	15	85

TEM Analysis recommended for organically bound material (i.e. floor tile) if PLM results are <1%.
 Only compound, tape and wallboard layers are used in the calculation of a composite result.

RESERVOIRS ENVIRONMENTAL INC.

NVLAP Lab Code 101896-0

TABLE: PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: **RES 453965-2**
 Client: **Mahoney Environmental**
 Client Project Number / P.O.: **2019.144**
 Client Project Description: **West Anix - South**
 Date Samples Received: **January 15, 2020**
 Method: **EPA 600/R-93/116 - Point Count, Bulk**
 Turnaround: **Rush**
 Date Samples Analyzed: **January 15, 2020**

ND=None Detected
 TR=Trace, <1% Visual Estimate
 Trem/Act=Tremolite/Actinolite

Client Sample Number	L A Y E R	Physical Description	Sub Part (%)	Asbestos Content		Non Asbestos Fibrous Components (%)	Non-Fibrous Components (%)
				Mineral	Visual Estimate (%)		
WAS-ASB49B	A	White tape	2		ND	90	10
	B	White compound	15	Chrysotile	5	0	95
				Point Count	4.75		
	C	White joint compound	15	Chrysotile	5	0	95
				Point Count	4.25		
	D	White/tan drywall	68		ND	15	85
				Composite	1.35		

TEM Analysis recommended for organically bound material (i.e. floor tile) if PLM results are <1%.
 Only compound, tape and wallboard layers are used in the calculation of a composite result.

RESERVOIRS ENVIRONMENTAL INC.

NVLAP Lab Code 101896-0

TABLE: PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: **RES 453965-2**
 Client: **Mahoney Environmental**
 Client Project Number / P.O.: **2019.144**
 Client Project Description: **West Anix - South**
 Date Samples Received: **January 15, 2020**
 Method: **EPA 600/R-93/116 - Point Count, Bulk**
 Turnaround: **Rush**
 Date Samples Analyzed: **January 15, 2020**

ND=None Detected
 TR=Trace, <1% Visual Estimate
 Trem/Act=Tremolite/Actinolite

Client Sample Number	L A Y E R	Physical Description	Sub Part (%)	Asbestos Content		Non Asbestos Fibrous Components (%)	Non-Fibrous Components (%)
				Mineral	Visual Estimate (%)		
WAS-ASB27B	A	White paint	3		ND	0	100
	B	White tape	3		ND	90	10
	C	White compound	15	Chrysotile	4	0	96
	D	White joint compound	15	Point Count Chrysotile	3.50 4	0	96
	E	White/tan drywall	64	Point Count Composite	4.00 1.16	10	90

TEM Analysis recommended for organically bound material (i.e. floor tile) if PLM results are <1%.
 Only compound, tape and wallboard layers are used in the calculation of a composite result.

Landon Spells
Landon Spells

Analyst / Data QA



RES Job #: 453965

SUBMITTED BY	INVOICE TO	CONTACT INFORMATION	SERIES
Company: MAHONEY ENVIRONMENTAL	Company: MAHONEY ENVIRONMENTAL	Contact: JOHN MAHONEY	-1 PLM RUSH
Address: 1601 10TH AVENUE	Address: 1601 10TH AVENUE	Phone: (970) 381-5951	
GREELEY, CO 80631	GREELEY, CO 80631	Fax:	
Project Number and/or P.O. #: 2019.144		Cell:	
Project Description/Location: WEST ANIX - SOUTH		Final Data Deliverable Email Address: JMAHONEY2644@COMCAST.NET	

ASBESTOS LABORATORY HOURS: Weekdays: 7am - 7pm & Sat. 8am - 5pm	REQUESTED ANALYSIS				VALID MATRIX CODES				LAB NOTES								
PLM / PCM / TEM DTL RUSH PRIORITY STANDARD					Air = A	Bulk = B											
CHEMISTRY LABORATORY HOURS: Weekdays: 8am - 5pm					Dust = D	Food = F											
Dust RUSH PRIORITY STANDARD					Paint = P	Soil = S											
Metals RUSH PRIORITY STANDARD *PRIOR NOTICE REQUIRED FOR SAME DAY TAT					Surface = SU	Swab = SW											
Organics* SAME DAY RUSH PRIORITY STANDARD					Tape = T	Wipe = W											
MICROBIOLOGY LABORATORY HOURS: Weekdays: 8am - 5pm					Drinking Water = DW												
Viable Analysis** PRIORITY STANDARD **TAT DEPENDENT ON SPEED OF MICROBIAL GROWTH					Waste Water = VVV												
Medical Device Analysis RUSH STANDARD					**ASTM E1792 approved wipe media only**												
Mold Analysis RUSH PRIORITY STANDARD																	
Turnaround times establish a laboratory priority, subject to laboratory volume and are not guaranteed. Additional fees apply for afterhours, weekends and holidays.																	
Special Instructions:	PLM - Short Report	TEM - AHERA (+/- or Quantified) Microvac (+/- or Quantified) Wipe (+/- or Quantified), NIOSH 7402, ISO 10312, ISO 13794, Chatfield, Waste Water, Drinking Water, Bulk +/-	PCM - 7400A, 7400B, OSHA	DUST - Total, Respirable	METALS - Analyte(s) Lead Only (7082, 7420, Waste Water, Foodware), Multi Metal (7303, 6020A, 200.8, Waste Water, Foodware), pH (Liquid, Non-Liquid), TCLP, RCRA 8 Scan, Welding Fume Scan, Full Metals Scan	ORGANICS - Methamphetamine, TSS	VIABLES Campylobacter, Bacillus, Salmonella (Culturable, 1-2), Listeria, E.coli O157:H7, E.coli/Coliforms - Plated, S. aureus, Yeast & Mold, Aerobic Plate Count, Coliforms/E.coli (State Water, Drinking Water, Non-Drinking Water, +/-, Quantification), Lactic Acid, Viable Microbial Count (wo/ID, w/ID), Enterococcus (+/- or Quantification)	MEDICAL - Bioburden, LAL	MOLD - Spore Trap, Bulk Mold, Particulate Identification	Sample Volume (L) / Area	Length (or Aliquots) x Width (or Area per Aliquot)	Matrix Code	# of Containers	Date Collected mm/dd/yy	Time Collected hh:mm	Laboratory Analysis Instructions	
Client Sample ID Number (Sample ID's must be unique)	ASBESTOS	CHEMISTRY	MICROBIOLOGY														
1 WAS-ASB47B	X											B	1	01/15/20			CMP
2 WAS-ASB49B	X											B	1	01/15/20			CMP
3 WAS-ASB27B	X											B	1	01/15/20			CMP

REI will analyze incoming samples based on information received and will not be responsible for errors or omissions in calculations resulting from the inaccuracy of original data. By signing, client/company representative agrees that submission of the following samples for requested analysis as indicated on this Chain of Custody shall constitute an analytical services agreement with payment terms of NET 30 days. Failure to comply with payment terms may result in a 1.5% monthly interest surcharge.

Relinquished By:	JOHN MAHONEY	Date/Time: 01/15/2020 11:19:45	Sample Condition: ACCEPTABLE - INTACT
Received By:	HANNA MARTI	Date/Time: 01/15/2020 11:19:45	Carrier: HAND