ASBESTOS SURVEY

WIGGINS EVENTS CENTER 415 CHAPMAN STREET WIGGINS, CO 80654

Prepared for:

WIGGINS SCHOOL DISTRICT FACILITIES MANAGEMENT 320 CHAPMAN ST., WIGGINS, CO 80654

Prepared by:



Facility Planning, Engineering, & Environmental Services 541 East Garden Drive, Unit S Windsor, CO 80550

> RLH Project Number 16072 November 2016

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EXECUTIVE SUMMARY

The Wiggins School District contracted RLH Engineering, Inc. (RLH) to perform an Asbestos Materials Survey at Wiggins Events Center located at 415 Chapman Street, Wiggins, CO 80654. The intent of the Survey was to identify Asbestos Containing Materials (ACMs) that would need to be incorporated into an AHERA Management Plan. The structure is an educational/athletic facility approximately 27,500 SF in size. This report presents the results of the Survey conducted on October 14, 2016.

The scope of work included a survey of the building and building materials, identification of suspect ACMs, and collection and analysis of bulk samples. The inspection and laboratory results identified the following ACMs:

NO ASBESTOS CONTAINING MATERIALS (ACMs) WERE IDENTIFIED

The intent of this Survey was to identify ACMs to be included in an AHERA Management Plan for the facility. Locations and quantities of materials discussed in this report are approximate. **This document should not be used as a bid document** for the removal, repair, encapsulation, enclosure, or Operations & Maintenance (O&M) of any ACM discussed in this report. Bid documents should, in general, include specific information regarding the location and materials to be abated, a description of specific work practices and procedures, contract document information, and other project specific information. In some cases, these documents need to be developed by EPA-accredited and CDPHE-certified personnel. Contact RLH Engineering in the event that these services are required.

DEFINITIONS/ACRONYMS

ACBM - asbestos-containing building material

ACM - asbestos-containing material

ACWM - asbestos-containing waste material

AHERA - Asbestos Hazard Emergency Response Act

APCD - Air Pollution Control Division

ASHARA - Asbestos School Hazard Abatement Reauthorization Act

AQCC - Air Quality Control Commission

Asbestos - Asbestiform varieties of chrysotile, amosite (cummintonite-grunerite), crocidolite, anthophylite, tremolite, and actinolite.

Asbestos-containing building material - surfacing ACM, thermal system insulation ACM, or miscellaneous ACM that is found in or on interior structural members or other parts of a school building or state building.

Asbestos-containing material - material containing more than 1% asbestos.

CDPHE - Colorado Department of Public Health and Environment

Category I non-friable asbestos-containing material - asbestos-containing packings, gaskets, resilient floor covering, and asphalt roofing products containing more than 1 percent asbestos as determined using the method specified in Appendix E, Supbart E, 40 C.F.R. Part 763, section 1, polarized light microscopy, (EPA 1995),

Category II non-friable ACM - any material, excluding category 1 non-friable ACM, containing more than 1 percent asbestos as determined using the methods specified in Appendix E, Subpart E, 40 C.F.R. Part 763, section 1, polarized light microscopy, (EPA 1995) that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

Demolition - the wrecking or taking out of any load-supporting structural member of a facility together with any related handling operations or the intentional burning of any facility.

EPA - Environmental Protection Agency

Friable - material, when dry, may be crumbled, pulverized, or reduced to powder by hand pressure, and includes previously nonfriable material after such previously nonfriable material becomes damaged to the extent that when dry it may be crumbled, pulverized, or reduced to powder by hand pressure.

Functional space - a room, group of rooms, or homogeneous area (including crawl spaces or the space between a dropped ceiling and the floor or roof deck above), such

as a classroom(s), a cafeteria, gymnasium, hallways, designated by a person certified to prepare management plans, design abatement projects, or conduct response actions.

GAC - General Abatement Contractor

Homogeneous area - an area of surfacing material, thermal system insulation material, or miscellaneous material that is uniform in color, texture, or time of installation.

Miscellaneous material - building material on structural components, structural members or fixtures, such as floor and ceiling tiles, and does not include surfacing material or thermal system insulation.

NESHAP - National Emissions Standards for Hazardous Air Pollutants (40 C.F.R. Part 61) (<u>EPA</u>), Subparts A (General Provisions, and M (National Emission Standard for Asbestos)

NIST - National Institute of Standards and Technology

Nonfriable - material which, when dry, may not be crumbled, pulverized, or reduced to powder by hand pressure.

NVLAP - National Voluntary Laboratory Accreditation Program

O&M - Operations and Maintenance

Operations and maintenance program - a program of work practices to maintain <u>friable ACBM</u> in good condition, ensure clean up of asbestos fibers previously released, and prevent further release by minimizing and controlling friable ACBM disturbance or damage.

OSHA - Occupational Safety and Health Administration

PLM - Polarized Light Microscopy

Polarized Light Microscopy - an analytical technique used for identifying types of asbestos fibers in bulk material samples.

PPE - Personal Protective Equipment

Public and Commercial Building - any building, which is not a School Building, except that the term does not include any residential apartment building of ten or fewer units. Single-family residential dwellings currently intended as such are excluded from this definition. This definition includes all industrial buildings.

School - any institution that provides elementary or secondary education.

School building - Any structure suitable for use as a classroom, including a school facility such as a laboratory, library, school eating facility, or facility used for the preparation of food;

Any gymnasium or other facility, which is specially designed for athletic or recreational activities for an academic course in physical education;

Any other facility used for the instruction or housing of students or for the administration of educational or research programs;

Any maintenance, storage, or utility facility, including any hallway, essential to the operation of any facility described in this definition of "school building";

Any portico or covered exterior hallway or walkway of any facility described in this definition of "school building";

Any exterior portion of a mechanical system used to condition interior space of any facility described in this definition of "school building".

SFRD - Single-Family Residential Dwelling

Structural member - any load-supporting member of a facility, such as beams and load supporting walls; or any non load-supporting member, such as ceilings and non load-supporting walls.

Surfacing ACM - surfacing material that is ACM. Surfacing material means material that is sprayed on, troweled on, or otherwise applied to surfaces, such as acoustical plaster on ceilings and fireproofing materials on structural members, or other materials on surfaces for acoustical fireproofing, or other purposes.

Thermal system insulation - material applied to pipes, fittings, boilers, breeching, tanks, ducts, or other interior structural components to prevent heat loss or gain, or water condensation, or for other purposes.

TSCA - Toxic Substances Control Act

TSI - Thermal System Insulation

VAT – Vinyl Asbestos (floor) Tile

VCT - Vinyl Composition (floor) Tile

INTRODUCTION

The Wiggins School District contracted RLH Engineering, Inc. (RLH) to perform an Asbestos Materials Survey at Wiggins Events Center located at 415 Chapman Street, Wiggins, CO 80654. The intent of the Survey was to identify Asbestos Containing Materials (ACMs) that would need to be incorporated into an AHERA Management Plan. The structure is an educational/athletic facility approximately 27,500 SF in size.

This report presents the results of the Survey conducted on October 14, 2016. Asbestos Bulk Samples were collected by Mr. Zachary Minniear and submitted to Reservoirs Environmental Services, Inc. (RESI) for PLM Analysis. Mr. Minniear is an EPA-accredited and CDPHE-certified Asbestos Inspector. RESI is a NIST/NVLAP-accredited laboratory.

SURVEY METHODOLOGY

The intent of this Survey was to identify Asbestos Containing Materials (ACMs) that would need to be included in a facility AHERA Management Plan. The following tasks were performed to complete the Survey:

• Building Systems/Homogeneous Materials Assessment - An initial walkthrough of the facility was conducted to identify building components, building systems, and accessible Homogeneous Areas/Materials. This information was recorded on field-generated forms and floor plans. The condition and friability of each suspect Homogeneous ACM was assessed. The following observations were made during this Survey regarding the subject facility:

Foundation Type:	Concrete Slab
Structure Type:	PEMB, CMU, Concrete, Wood
Roof Type:	Metal, Built-Up
Exterior Facade:	Aluminum Siding
Interior Floors Finishes:	Hardwood Floors, Vinyl Floor Tile, Linoleum/Sheet Flooring, Carpet, Concrete
Interior Wall Finishes:	Drywall, CMU, Concrete
Interior Ceiling Finishes:	Metal, Drop-grid Acoustical
Heating System:	Gas-fired Forced-air Furnace, Ducted throughout structure

Complete information regarding Homogeneous Materials, including material types, quantities, and ACM status are indicated in Appendix – A Homogeneous Materials Report.

- Sampling Methodology/Collection Each homogeneous suspect ACM was quantified, based upon square-footage, linear footage, or total units. A Bulksampling Plan was developed based upon the type and quantity of suspect Homogeneous ACMs. The Bulk Sampling Plan determined the appropriate location and quantity of samples to be collected. Bulk samples were randomly collected from each homogenous area of suspect building materials as follows:
 - Surfacing Materials
 - At least three bulk samples were collected from each homogenous area that is 1,000 SF, or less.
 - At least five bulk samples were collected from each homogenous area that is greater than 1,000 SF but less than or equal to 5,000 SF.
 - At least seven bulk samples were collected from each homogenous area that is greater than 5,000 SF.
 - Thermal System Insulation
 - Three (3) samples were collected from each homogenous area of thermal system insulation.
 - Miscellaneous Materials
 - A minimum of Two (2) samples were collected for miscellaneous materials.

NOTE: The stated quantity of samples is the minimum required by regulations. At the discretion of the Inspector, additional samples may have been collected to confirm homogeneity of materials

- Sample Identification/Analysis After Bulk Samples of suspect ACM were collected, sample locations were recorded on field forms and/or floor plan drawings. Each sample was assigned a unique sample number, recorded on a Chain of Custody, and delivered to a Laboratory for PLM Analysis.
 - Sample numbers were assigned using the following format: "12345-0101-ABC01-01". The first five numerals are the project number assigned to the project by RLH Engineering, Inc. (RLH Engineering Project Numbers are assigned using the last two numerals of the year and three numerals showing the sequence in which each project was performed). The following four numerals are the month and day the sample was collected. The next two or three letters and two numbers are the homogeneous material identification number. The last two numerals are the sequential sample for each homogeneous material.

Example of Sample Numbering and Sequence:

For the first floor tile sample taken on February 13, 2002 for Project Number 02001, the sample number would be 02001-0213-FT01-01. The second sample of the same floor tile would be 02001-0213-FT01-02.

The first sample of a second floor tile sampled on the same day would be 02001-0213-FT02-01 and the following sample 02001-0213-FT02-02.

- Bulk samples analyzed for asbestos were delivered to Reservoirs Environmental Services, Inc. (RESI). RESI is accredited through the National Voluntary Laboratory Accreditation Program (NVLAP) administered by the National Institute of Standards and Technology (NIST). Samples were recorded on a RESI Chain of Custody form and delivered with the samples to the laboratory, at which time the individual delivering the samples signed the Chain of Custody form, assigning custody of the samples to the laboratory.
- For every 20th bulk sample that was collected (or one sample in 20), a Quality Assurance (QA) sample was collected immediately adjacent to the 20th sample. Thus, the 20th and 21st samples are side-by-side samples of the same homogeneous material. This QA sample was submitted to a secondary laboratory, DCM Science Laboratory, Inc. (DCMSL). The same Chain of Custody procedures were followed as described above.
- Bulk samples were analyzed for asbestos content by Polarized Light Microscopy (PLM). In the state of Colorado, samples of friable materials indicating asbestos content of less than 1%, but greater than 0% (including TR or Trace), must be further analyzed using a Point Count technique. Samples meeting this criteria were further analyzed by Point count. In addition, at the discretion of the Inspector, samples in which the asbestos content is less than 3% may have had a Point Count performed to determine the exact percentage of asbestos in the material.
 - A Sample Report, indicating Sample Numbers, Material Descriptions, Sample Locations, and ACM Content is included with this report as Appendix B.
 - Laboratory Results, with copy of the Chain of Custody, are included with this report as Appendix C
- **Report Generation** Upon receipt of Laboratory Results, this Report was completed, including the attached Figures and Appendices. The Floor Plans were generated in AutoCAD format, which depict Homogeneous Material Locations, Sample Locations, Locations of ACM or Assumed ACM.

REGULATORY INFORMATION

The Asbestos Hazard Emergency Response Act (AHERA) sets forth state-of-the-art requirements for proper asbestos inspections in buildings. AHERA requirements initially applied to K-12 schools only, but have been extended by other state and federal regulations to include all public and commercial buildings as a requirement prior to renovation or demolition. The AHERA standards were used in the inspection process for this survey.

An ACM is defined as any material that contains greater than one percent (1%) asbestos as determined by laboratory analysis using polarized light microscopy (PLM). The Environmental Protection Agency (EPA) and the Occupational Safety & Health Administration (OSHA) distinguish between friable and non-friable forms of ACM. Friable materials can be crumbled or reduced to powder by hand pressure when dry. Non-friable materials cannot be crumbled, pulverized or reduced to powder by hand pressure when dry. Friable materials are more likely to be released into the air, especially if impacted or damaged during normal use, renovation, or demolition of a building. Therefore, the distinction between friable and non-friable ACMs is important. The EPA further distinguishes non-friable ACMs as Category I and Category II. Category I non-friable ACMs include floor tiles and tar-impregnated roofing felts, and removal of these ACMs is generally not required prior to demolition, if they are in good condition. Category II ACMs are all other non-friable ACMs and must be removed prior to normal demolition.

In the state of Colorado, samples of friable materials indicating asbestos content of less than 1%, but greater than 0% (including TR or Trace), must be further analyzed using a Point Count technique. If a Point Count is conducted, the result of the Point Count must be used rather than the initial PLM analysis

Whether removed or remaining in a structure during demolition, the confirmed or presumed ACMs are subject to USEPA National Emission Standards for Hazardous Air Pollutants (NESHAP) and OSHA regulations. NESHAP requires, in 40CFR61.145, that each owner or operator of a demolition activity provide the administrator with written notice of intent.

Federal requirements, which govern asbestos identification, management, abatement work, or shipment and disposal of asbestos waste materials, include the following:

- OSHA: U.S. Department of Labor, Occupational Safety and Health Administration, (OSHA), including but not limited to:
 - Occupational Exposure to Asbestos, Tremolite, Anthophyllite, and Actinolite; Final Rules Title 29, Part 1910, Section 1001 and Part 1926, Section 1101 of the Code of Federal Regulations;
 - Respiratory Protection Standard Title 29, Part 1910, Section 134 of the Code of Federal Regulations;
 - Construction Industry Title 29, Part 1926, of the Code of Federal Regulations;

- Access to Employee Exposure and Medical Records Title 29, Part 1910, Section 2 of the Code of Federal Regulations;
- Hazard Communication Title 29, Part 1926 Section 59 of the Code of Federal Regulations; and,
- Specifications for Accident Prevention Signs and Tags Title 29, Part 1910, Section 145 of the Code of Federal Regulations.
- DOT: U.S. Department of Transportation, including but not limited to:
 - Hazardous Substances Title 29, Part 171 and 172 of the Code of Federal Regulations.
- EPA: U.S. Environmental Protection Agency (EPA), including but not limited to:
 - Asbestos Hazard Emergency Response Act (AHERA) Regulation;
 - Asbestos-Containing Materials in Schools Final Rule & Notice Title 40, Part 763 Sub-part E of the Code of Federal Regulations;
 - Training Requirements of (AHERA) Regulation;
 - Asbestos-Containing Materials in Schools Final Rule & Notice Title 40, Part 763, Sub-part E, Appendix C of the Code of Federal Regulations;
 - National Emission Standard for Hazardous Air Pollutants (NESHAPS); and,
 - National Emission Standard for Asbestos Title 40, Part 61, Sub-part A, Sub-part M (Revised Sub-part B) of the code of Federal Regulations.

State of Colorado: Colorado Department of Public Health and Environment (CDPHE)Including but not limited to:

- Air Quality Control Commission, Regulation No. 8, (5CCR 1001-10, Part B).
- Solid Waste Regulation, Section 5.5 of 6CCR 1007-2, Regulations Pertaining to Solid Waste Disposal Sites and Facilities

Many components found within buildings are comprised of, or function through the use of, materials that are considered hazardous materials or hazardous waste upon disposal. These items are commonly referred to Regulated Building Materials (RBMs).

Federal and state requirements, which govern management, shipment and disposal of RBMs, include the following:

DOT: U.S. Department of Transportation, including but not limited to:

Hazardous Substances Title 29, Part 171 and 172 of the Code of Federal Regulations.

- EPA: U.S. Environmental Protection Agency (EPA), including but not limited to:
 - Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA);
 - Resource Conservation Recovery Act (RCRA);
 - Toxic Substances Control Act (TSCA)

SURVEY RESULTS

The inspection and laboratory results identified the following ACMs:

NO ASBESTOS CONTAINING MATERIALS (ACMs) WERE IDENTIFIED

RECOMMENDATIONS

NONE REQUIRED

EXCLUSIONS/LIMITATIONS

RLH Engineering, Inc. has performed this survey using state-of-the art techniques, in a manner that is consistent with the level of care and expertise exercised by individuals and firms in the Asbestos Inspection profession. RLH cannot guarantee that all ACMs were identified and sampled by this Survey. Sampling for this Survey was performed using non-destructive methods whenever possible. This means that samples were taken in small amounts and in inconspicuous locations to prevent damage to the building finishes to the greatest extent possible. Accessible locations were inspected and sampled throughout, but materials were not significantly demolished to gain access to locations that were otherwise inaccessible. If, during the course of renovation or demolition, suspect materials not identified in this report are encountered, work should be stopped for additional assessment and sampling. Likewise, if materials identified in this report, work should be stopped for additional assessment and/or sampling.

The intent of this Survey was to identify ACMs that would need to be included in a facility AHERA Management Plan. Locations and quantities of materials discussed in this report are approximate. **This document should not be used as a bid document** for the removal, repair, encapsulation, enclosure, or Operations & Maintenance (O&M) of any ACM discussed in this report. Bid documents should, in general, include specific information regarding the location and materials to be abated, a description of specific work practices and procedures, contract document information, and other project specific information. In some cases, these documents need to be developed by EPA-accredited and CDPHE-certified personnel. Contact RLH Engineering in the event that these services are required.

SIGNATURES

This Survey was performed by RLH Engineering, Inc., a CDPHE-registered Asbestos Consultant (Reg. # 14755). Asbestos Bulk Samples were collected by RLH Assistant Project Manager Zachary Minniear. Mr. Minniear is currently accredited by the EPA and certified by CDPHE as an Asbestos Inspector. This report was reviewed for Quality Control by RLH Principal Jeff Kirtley. Mr. Kirtley is also currently accredited by the EPA and certified by CDPHE as an Asbestos Inspector. Copies of all appropriate accreditations and certifications are included with this report as Appendix D.

Please contact us if you have any questions regarding this report.

Sincerely, RLH Engineering, Inc.

Zachary C. Minniear Assistant Project Manager Asbestos Inspector #20246

Reviewed by:

Jeff Kirtley Principal Asbestos Inspector # 9683

WIGGINS EVENTS CENTER ACM SURVEY WIGGINS SCHOOL DISTRICT U:Projects\2016Projects 16072\WECSurvey

Homogeneous Materials - Floors

Code	Material	Sample Number	Quan	tity	ACM?
1	concrete	NOT SAMPLED	~	SF	NON-SUSPECT
2	12"x 12" carpet tile	FT01-01, FT01-02	185	SF	NO
3	12"x 12" white w/grey flecks floor tile	FT02-01, FT02-02	4,000	SF	NO
4	12"x 12" grey w/black flecks floor tile	FT03-01, FT03-02	275	SF	TILE: NO MASTIC: NO
5	wood	NOT SAMPLED	~	SF	NON-SUSPECT
6	rubber	NOT SAMPLED	~	SF	NON-SUSPECT
7	ероху	EP01-01, EP01-02	11,000	SF	NO
8	grey pebble sheet vinyl flooring	SV01-01, SV01-02	325	SF	NO
9	12"x 12" green w/white flecks floor tile	FT04-01, FT04-02	275	SF	TILE: NO MASTIC: NO
10	terrazzo	NOT SAMPLED	~	SF	NON-SUSPECT
11	rubber pad	NOT SAMPLED	~	SF	NON-SUSPECT

Code	Material	Sample Number	Quan	tity	ACM?
A	drywall smooth texture	DW01-01, DW01-02, DW01-03, DW01-04, DW01-05	3,100	SF	NO
В	cmu block	BF01-01, BF01-02, BF01-03, BF01-04, BF01-05, BF01-06, BF01-07	25,000	SF	NO
с	grey covebase	CBA01-01, CBA01-02	3,000	LF	NO
D	chicken scratch pinhole ceiling tile	CT01-01, CT01-02	3,600	SF	NO
E	poured concrete w/texture	BF02-01, BF02-02, BF02-03, BF02-04, BF02-05, BF02-06, BF02-07	10,000	SF	NO
F	unpainted block	NOT SAMPLED	-	SF	NON-SUSPECT
G	glass	NOT SAMPLED	-	SF	NON-SUSPECT
н	metal	NOT SAMPLED	~	SF	NON-SUSPECT
1	2'x 4' ceiling tile	CT04-01, CT04-02	350	SF	NO
J	black covebase	CBA02-01, CBA02-02	115	LF	NO
к	2'x 4' widthwise fissure ceiling tile	CT02-01, CT02-02	1,110	SF	NO
L	2'x 4' chicken scratch ceiling tile	CT03-01, CT03-02	1,500	SF	NO
М	bag fiberglass insulation	NOT SAMPLED	~	SF	NON-SUSPECT

WIGGINS SCHOOL DISTRICT - EVENTS CENTER

Homogeneous Materials - Ceilings & Walls

WIGGINS SCHOOL DISTRI	CT - EVENTS CENTER			
Homogeneous Materials -	TSI & Miscellaneous			
Material	Sample Number	Quant	ity	ACM
pipe covering compound	PCC01-01, PCC01-02, PCC01-03	300	LF	NC

NOTE:	THIS DRAWING MUST BE PRINTED IN COLOR TO	SHOW ALL INFORMATION ACCURATELY.
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WIGGINS SCHOOL DISTRICT	EVENTS CENTER	ASBESTOS MANAGEMENT PLAN 415 CHAMMAN STREET WIGGINS, COLORADO 80654
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Homogeneous Materials - Floors

Code	Material	Sample Number	Quant	tity	ACM?
1	concrete	NOT SAMPLED	~	SF	NON-SUSPECT
2	12"x 12" carpet tile	FT01-01, FT01-02	185	SF	NO
3	12"x 12" white w/grey flecks floor tile	FT02-01, FT02-02	4,000	SF	NO
4	12"x 12" grey w/black flecks floor tile	FT03-01, FT03-02	275	SF	TILE: NO MASTIC: NO
5	wood	NOT SAMPLED	~	SF	NON-SUSPECT
6	rubber	NOT SAMPLED	~	SF	NON-SUSPECT
7	ероху	EP01-01, EP01-02	11,000	SF	NO
8	grey pebble sheet vinyl flooring	SV01-01, SV01-02	325	SF	NO
9	12"x 12" green w/white flecks floor tile	FT04-01, FT04-02	275	SF	TILE: NO MASTIC: NO
10	terrazzo	NOT SAMPLED	~	SF	NON-SUSPECT
11	rubber pad	NOT SAMPLED	~	SF	NON-SUSPECT

Homogeneous Materials - Ceilings & Walls

Code	Material	Sample Number	Quantity	ACM?
A	drywall smooth texture	DW01-01, DW01-02, DW01-03, DW01-04, DW01-05	3,100 SF	NO
В	cmu block	BF01-01, BF01-02, BF01-03, BF01-04, BF01-05, BF01-06, BF01-07	25,000 SF	NO
С	grey covebase	CBA01-01, CBA01-02	3,000 LF	NO
D	chicken scratch pinhole ceiling tile	CT01-01, CT01-02	3,600 SF	NO
E	poured concrete w/texture	BF02-01, BF02-02, BF02-03, BF02-04, BF02-05, BF02-06, BF02-07	10,000 SF	NO
F	unpainted block	NOT SAMPLED	~ SF	NON-SUSPECT
G	glass	NOT SAMPLED	~ SF	NON-SUSPECT
н	metal	NOT SAMPLED	~ SF	NON-SUSPECT
I	2'x 4' ceiling tile	CT04-01, CT04-02	350 SF	NO
J	black covebase	CBA02-01, CBA02-02	115 LF	NO
К	2'x 4' widthwise fissure ceiling tile	CT02-01, CT02-02	1,110 SF	NO
L	2'x 4' chicken scratch ceiling tile	CT03-01, CT03-02	1,500 SF	NO
М	bag fiberglass insulation	NOT SAMPLED	~ SF	NON-SUSPECT

Homogeneous Materials - TSI & Miscellaneous

Material	Sample Number	Quantity	ACM?
pipe covering compound	PCC01-01, PCC01-02, PCC01-03	300 LF	NO
pipe dope	PD01-01, PD01-02	6 LF	NO

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Sample ID Number	Material	Location	Results of Laboratory Analysis by Polarized Light Microscopy
Reservoirs #363512-1R 10-19-16 16072 101416WEC EP01-01	ероху	storage room north of female restroom	ND
16072 101416WEC EP01-02	ероху	center of wrestling room	ND
16072 101416WEC SV01-01	grey pebble sheet vinyl flooring	kitchen, north of exterior door	ND
16072 101416WEC SV01-02	grey pebble sheet vinyl flooring	kitchen, south of exterior door	ND
16072 101416WEC FT01-01	12"x 12" carpet tile	entry vestibule, north aspect	ND
16072 101416WEC FT01-02	12"x 12" carpet tile	entry vestibule, south aspect	ND
16072 101416WEC FT02-01	12"x 12" white w/grey flecks floor tile	corridor adjacent to storage room north of male restroom	ND
16072 101416WEC FT02-02	12"x 12" white w/grey flecks floor tile	sound room floor, north aspect	ND
16072 101416WEC FT03-01	12"x 12" grey w/black flecks floor tile	male restroom, east aspect	tile: ND mastic: ND
16072 101416WEC FT03-02	12"x 12" grey w/black flecks floor tile	male restroom, west aspect	tile: ND mastic: ND
16072 101416WEC FT04-01	12"x 12" green w/white flecks floor tile	female restroom, west aspect	tile: ND mastic: ND
16072 101416WEC FT04-02	12"x 12" green w/white flecks floor tile	male restroom, east aspect	tile: ND mastic: ND
16072 101416WEC BF01-01	cmu block	corridor adjacent to southeast gym entrance, east wall behind door	ND
16072 101416WEC BF01-02	cmu block	northeast corner of gymnasium, behind bleachers	ND
16072 101416WEC BF01-03	cmu block	north wall of wrestling room, central aspect	ND
16072 101416WEC BF01-04	cmu block	west wall of female locker room	ND
16072 101416WEC BF01-05	cmu block	southwest corner of gym, behind bleachers	ND
16072 101416WEC BF01-06	cmu block	east wall of kitchen, above door	ND
16072 101416WEC BF01-07	cmu block	west stage stairwell, east wall above door	ND
16072 101416WEC BF02-01	poured concrete w/texture	wall adjacent to male restroom	ND
16072 101416WEC BF02-02	poured concrete w/texture	wall near northeast entrance to gymnasium	ND
16072 101416WEC BF02-03	poured concrete w/texture	wall near northwest entrance to gymnasium	ND

Sample ID Number	Material	Location	Results of Laboratory Analysis by Polarized Light Microscopy
16072 101416WEC BF02-04	poured concrete w/texture	storage room at north aspect of gym, north wall, central aspect	ND
16072 101416WEC BF02-05	poured concrete w/texture	gymnasium, west wall, south of female locker entrance	ND
16072 101416WEC BF02-06	poured concrete w/texture	corridor at southwest aspect of gym, south wall adjacent to mechanical room	ND
16072 101416WEC BF02-07	poured concrete w/texture	corridor at southeast aspect of gym, east wall behind door	ND
16072 101416WEC CBA01-01	grey covebase	custodial room near sound room, east wall	ND
16072 101416WEC CBA01-02	grey covebase	training room, north wall	ND
16072 101416WEC CBA02-01	black covebase	gymnasium, east wall, south aspect	ND
16072 101416WEC CBA02-02	black covebase	gymnasium, south wall, west aspect behind bleachers	ND
16072 101416WEC PCC01-01	pipe covering compound	mechanical room	ND
16072 101416WEC PCC01-02	pipe covering compound	mechanical room	ND
16072 101416WEC PCC01-03	pipe covering compound	mechanical room	ND
16072 101416WEC PD01-01	pipe dope	mechanical room	ND
16072 101416WEC PD01-02	pipe dope	mechanical room	ND
16072 101416WEC CT01-01	chicken scratch pinhole ceiling tile	auditorium, east aspect	ND
16072 101416WEC CT01-02	chicken scratch pinhole ceiling tile	auditorium, west aspect	ND
16072 101416WEC CT02-01	2'x 4' widthwise fissure ceiling tile	male locker room, varsity side	ND
16072 101416WEC CT02-02	2'x 4' widthwise fissure ceiling tile	male locker room, jv side	ND
16072 101416WEC CT03-01	2'x 4' chicken scratch ceiling tile	female locker room, jv side	ND
16072 101416WEC CT03-02	2'x 4' chicken scratch ceiling tile	female locker room, coach's office	ND
16072 101416WEC CT04-01	2'x 4' ceiling tile	kitchen, north aspect	ND
16072 101416WEC CT04-02	2'x 4' ceiling tile	kitchen, south aspect	ND
16072 101416WEC DW01-01	drywall smooth texture	entry vestibule, south wall, above light	ND

Sample ID Number	Material	Location	Results of Laboratory Analysis by Polarized Light Microscopy
16072 101416WEC DW01-02	drywall smooth texture	ceiling above door to storage room adjacent to male restroom	ND
16072 101416WEC DW01-03	drywall smooth texture	ceiling adjacent to northeast entrance to wrestling room	ND
16072 101416WEC DW01-04	drywall smooth texture	ceiling above northwest entrance to wrestling room	ND
16072 101416WEC DW01-05	drywall smooth texture	vestibule for female restroom	ND
16072 101416WEC PD01-03 (Not on original COC)	pipe dope	mechanical room	ND



October 20, 2016

Subcontract Number: Laboratory Report: Project # / P.O. # Project Description:

NA RES 363512-1R 16072 WEC

RLH Engineering 541 East Garden Drive, Unit S Windsor CO 80550

Dear Customer,

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 363512-1R 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,



Jeanne Spencer President

NVLAP Lab Code 101896-0

TABLE: PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number:	RES 363512-1R
Client:	RLH Engineering
Client Project Number / P.O.:	16072
Client Project Description:	WEC
Date Samples Received:	October 19, 2016
Method:	EPA 600/R-93/116 - Short Report, Bulk
Turnaround:	24 Hour
Date Samples Analyzed:	October 20, 2016

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

Client	Lab ID Number		Sub	Asbestos Content	Non Asbestos	Non- Fibrous
Number		Y Physical E Description	Part	Mineral Visual Estimate	Fibrous	Components
		R	(%)	(%)	(%)	(%)
16072 101416WEC EP01-01	EM 1732314	A Off white resinous material w/ gray paint	100	ND	0	100
16072 101416WEC EP01-02	EM 1732315	A Grayish white granular material w/ gray paint	100	ND	0	100
16072 101416WEC SV01-01	EM 1732316	A White resinous material	35	ND	0	100
		B Light gray sheet vinyl flooring w/ light gray fibrous backing material	65	ND	20	80
16072 101416WEC SV01-02	EM 1732317	A Light gray sheet vinyl flooring w/ light gray fibrous backing material	100	ND	15	85
16072 101416WEC FT01-01	EM 1732318	A Light tan resinous material w/ white fibrous material	2	ND	30	70
		B Black rubber flooring w/ white fibrous woven material	98	ND	38	62
16072 101416WEC FT01-02	EM 1732319	A White fibrous woven carpet backing material w/ light tan mastic	25	ND	65	35
		B Black rubber flooring w/ white fibrous woven material	75	ND	40	60
16072 101416WEC FT02-01	EM 1732320	A White tile	100	ND	0	100
16072 101416WEC FT2-02	EM 1732321	A White tile	100	ND	0	100

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TABLE: PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

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

Client	Lab		Sub	Asbestos	Content	Non Asbostos	Non-
Number	ID Number	Y Physical	Part	Mineral	Visual	Fibrous	Components
		R Description	(%)		Estimate (%)	Components (%)	(%)
16072 101416WEC FT03-01	EM 1732322	A Tan mastic w/ white leveling compound	7		ND	TR	100
		B Light gray tile	93		ND	0	100
16072 101416WEC FT03-02	EM 1732323	A Tan mastic	1		ND	0	100
		B Light gray tile	99		ND	0	100
16072 101416WEC FT04-01	EM 1732324	A Light tan mastic w/ grayish white plaster	7		ND	0	100
		B Dark green tile	93		ND	0	100
16072 101416WEC FT04-02	EM 1732325	A Light tan mastic w/ light gray plaster	5		ND	0	100
		B Dark green tile	95		ND	0	100
16072 101416WEC BF01-01	EM 1732326	A Light gray granular material w/ cream paint	100		ND	0	100
16072 101416WEC BF01-02	EM 1732327	A Gray granular material w/ white block filler & cream paint	100		ND	0	100
16072 101416WEC BF01-03	EM 1732328	A Gray granular material w/ white block filler & white tan paint	100		ND	0	100

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TABLE: PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: Client: Client Project Number / P.O.: Client Project Description: Date Samples Received: Method: Turnaround: Date Samples Analyzed:	RES 363512-1R RLH Engineerin 16072 WEC October 19, 20 EPA 600/R-93/1 24 Hour October 20, 20	ng 16 16 - Short Report, Bulk 16		NE TR Tre)=None Detected !=Trace, <1% Vi em/Act=Tremolit	d sual Estimate e/Actinolite
Client Sample Number	Lab ID Number	L A Y Physical E Description R	Sub Part (%)	Asbestos Content Mineral Visual Estimate (%)	Non Asbestos Fibrous Components (%)	Non- Fibrous Components (%)
16072 101416WEC BF01-04	EM 1732329	A White paint w/ white block filler & gray granular material	100	ND	0	100
16072 101416WEC BF01-05	EM 1732330	A Gray granular material w/ white block filler & cream paint	100	ND	0	100
16072 101416WEC BF01-06	EM 1732331	A Gray granular material w/ white block filler & white paint	100	ND	0	100
16072 101416WEC BF01-07	EM 1732332	A Gray granular material w/ white block filler & white paint	100	ND	0	100
16072 101416WEC BF02-01	EM 1732333	A White block filler w/ light tan paint	100	ND	0	100
16072 101416WEC BF02-02	EM 1732334	A White block filler w/ off white paint	100	ND	0	100
16072 101416WEC BF02-03	EM 1732335	A White multi-layered paint w/ white block filler & gray plaster	100	ND	0	100
16072 101416WEC BF02-04	EM 1732336	A Light beige multi-layered paint w/ white block filler	100	ND	0	100
16072 101416WEC BF02-05	EM 1732337	A Light beige multi-layered paint w/ white block filler	100	ND	0	100

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TABLE: PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number:	RES 363512-1R
Client:	RLH Engineering
Client Project Number / P.O.:	16072
Client Project Description:	WEC
Date Samples Received:	October 19, 2016
Method:	EPA 600/R-93/116 - Short Report, Bulk
Turnaround:	24 Hour
Date Samples Analyzed:	October 20, 2016

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

Client Sample Number	Lab ID Number	L A Y Physical E Description R	Sub Part (%)	Asbestos Content Mineral Visual Estimate (%)	Non Asbestos Fibrous Components (%)	Non- Fibrous Components (%)
16072 101416WEC BF02-06	EM 1732338	A Light beige plasterB Light beige multi-layered paint w/ white block filler	40 60	ND ND	0	100 100
16072 101416WEC BF02-07	EM 1732339	A Light beige paint w/ white block filler & gray plaster	100	ND	0	100
16072 101416WEC CBA01-01	EM 1732340	A White resinous materialB Off white masticC Gray cove base	2 3 95	ND ND ND	0 0 0	100 100 100
16072 101416WEC CBA01-02	EM 1732341	A Off white mastic w/ off white paint & white plaster B Gray cove base	5 95	ND ND	0 0	100 100
16072 101416WEC CBA02-01	EM 1732342	A Off white mastic w/ off white paint & white plasterB Black cove base	2 98	ND ND	0 0	100 100
16072 101416WEC CBA02-02	EM 1732343	A Off white mastic	100	ND	0	100
16072 101416WEC PCC01-01	EM 1732344	A White paperB White fibrous materialC White resinous material	6 14 80	ND ND ND	80 80 5	20 20 95

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TABLE: PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number:	RES 363512-1R
Client:	RLH Engineering
Client Project Number / P.O.:	16072
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Date Samples Received:	October 19, 2016
Method:	EPA 600/R-93/116 - Short Report, Bulk
Turnaround:	24 Hour
Date Samples Analyzed:	October 20, 2016

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

Client Sample Number	Lab ID Number	L A Y Physical E Description	Sub Part	Asbestos Content Mineral Visual Estimate	Non Asbestos Fibrous Components	Non- Fibrous Components
			(%)	: (%)	(70)	(/0)
16072 101416WEC PCC01-02	EM 1732345	A Silver foil/white paper material	25	ND	45	55
		B Yellow fibrous material	30	ND	90	10
		C White resinous material	45	ND	5	95
16072 101416WEC PCC01-03	EM 1732346	A White paper/silver foil material	45	ND	50	50
		B White resinous material	55	ND	3	97
16072 101416WEC PD01-01	EM 1732347	A Light tan resinous compound	100	ND	TR	100
16072 101416WEC PD01-02	EM 1732348	A Light tan resinous compound	100	ND	TR	100
16072 101416WEC CT01-01	EM 1732349	A Off white ceiling tile w/ white paint	100	ND	65	35
16072 101416WEC CT01-02	EM 1732350	A Off white ceiling tile w/ white paint	100	ND	65	35
16072 101416WEC CT02-01	EM 1732351	A Off white ceiling tile w/ white paint	100	ND	65	35
16072 101416WEC CT02-02	EM 1732352	A Off white ceiling tile w/ white paint	100	ND	65	35
16072 101416WEC CT03-01	EM 1732353	A Off white ceiling tile w/ white paint	100	ND	65	35
16072 101416WEC CT03-02	EM 1732354	A Off white ceiling tile w/ white paint	100	ND	65	35
16072 101416WEC CT04-01	EM 1732355	A Pink/tan drywall ceiling tile w/ white paint	100	ND	20	80

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TABLE: PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number:	RES 363512-1R
Client:	RLH Engineering
Client Project Number / P.O.:	16072
Client Project Description:	WEC
Date Samples Received:	October 19, 2016
Method:	EPA 600/R-93/116 - Short Report, Bulk
Turnaround:	24 Hour
Date Samples Analyzed:	October 20, 2016

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

Client Sample Number	Lab ID Number	L A Y Physical	Sub Part	Asbestos Content Mineral : Visual	Non Asbestos Fibrous	Non- Fibrous Components
		E Description R	(%)	Estimate (%)	Components (%)	(%)
16072 101416WEC CT04-02	EM 1732356	A Pink/tan drywall ceiling tile w/ white paint	100	ND	15	85
16072 101416WEC DW01-01	EM 1732357	A White joint compound	1	ND	2	98
		B White compound w/ white paint	2	ND	0	100
		C White tape	2	ND	85	15
		D Light pink/tan drywall	95	ND	10	90
16072 101416WEC DW01-02	EM 1732358	A White tape	1	ND	85	15
		B White joint compound	1	ND	1	99
		C White compound w/ white paint	2	ND	0	100
		D Light pink/tan drywall	96	ND	10	90
16072 101416WEC DW01-03	EM 1732359	A White compound w/ white paint	10	ND	0	100
		B Light pink/tan drywall	90	ND	15	85
16072 101416WEC DW01-04	EM 1732360	A White compound w/ white paint	12	ND	0	100
		B Light pink/tan drywall	88	ND	15	85

NVLAP Lab Code 101896-0

TABLE: PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number:	RES 363512-1R					
Client:	RLH Engineerin	ng				
Client Project Number / P.O.:	16072					
Client Project Description:	WEC					
Date Samples Received:	October 19, 201	6		_		
Method:	EPA 600/R-93/1	16 - Short Report, Bulk		1	ID=None Detecte	d
Turnaround:	24 Hour			-	R=Irace, <1% Vi irem/Act=Tremolit	sual Estimate
Date Samples Analyzed:	October 20, 201	6				
Client	Lab	L		Asbestos Content	Non	Non-
Sample	ID Number	A	Sub		Asbestos	Fibrous
Number		Y Physical	Part	Mineral Visua	Fibrous	Components
		R Description	(%)	Estimat	(%)	(%)
			(70)	(%) (///	(70)
16072 101416WEC DW01-05	EM 1732361	A White compound w/ white paint	5	N	0	100
		B Light pink/tan drywall	95	N) 15	85
16072 101416WEC PD01-03 (Not on original COC)	EM 1732362	A Light tan resinous compound	100	N	TR	100

- Christhane In hler Chris Werre Liu Wenlong Michael Scales

Analyst

Analyst

Analyst / Data QA

S LAB NOTES:	8	d	A	sr = WW		a only-	Time Itered EM Number Itered Iteration Utse Only	N-E-2-N	
ALID MATRIX CODE:	= A Bulk =	t = D Paint =	I = S Wipe =	Vater = DW Waste Wate	0 = Other	E1/92 approved wipe medi	Intainers Intainers Collected mmddyyd F	0#C	
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ESTED ANALYSIS			uo	nificati	Quan ion	-/- ht: +/- or Juantification Quantification Uantification	ANICS - METH almonella: +/- .coii Cr275 - Alf isteria: +/- erobic Plate Court .coiliforms: +/- or oiliforms: +/- or oili	WICKOBIOLOGY MICKO	
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	nirs Environ	, CO 80216 • Ph. 303 964-1986 • Fax 30		0)			Iory 16 WEC	
	REILAB RPEPTV	5801 Logan St. Denver		21 70	RES Job # 0000	Submitted by:		Client sample ID number 42 //c @ 7 L 45 45 46 46 46 46 47 L 53 54 49 49 46 55 55 55 55 55 55 55 55 55 55 55 55 55	69 70





Colorado Department of Public Health and Environment

ASBESTOS CERTIFICATION*

This certifies that

Zachary C. Minniear

Certification No.: 20246

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: March 03, 2016

Expires: March 03, 2017

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

athorized APCD Representative SEAL

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Danaya Benedetto- Training Program Manager Has Successfully Completed the EPA-Approved Annual Asbestos Refresher Training Course - Remarya Bancaltto Mike Benedetto - Instructor Under Section 206 of the Toxic Substance Control Act (TSCA), Title II. Zachary C. Minniear **BUILDING INSPECTOR Certifies that** January 22, 2016 R16-034-AI-CO Expiration Date: January 22, 2017 Certification not valid without watermark 1775 West 55th Avenue RAINING Denver, CO 80221 trainingchc.com 303.410.4941 Certificate No.: Course Date: No. of Hours:

(

Environmental Training

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& Consulting 2761 West Oxford Avenue #7 Englewood, CO 80110 (303)781-0422

CERTIFIES THAT

JEFF KIRTLEV

This course is EPA-approved under Section 206 of the Toxic Substance Control Act (TSCA) EPA-APPROVED AHERA ANNUAL REFRESHER COURSE for INSPECTOR and passed the required examination in that discipline has successfully completed the

Course Date 11/04/15No. of hours $\frac{4}{2}$ Certificate No. $\overline{DR110415}$ Expires 11/04/16

- 20A]



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Chis course meets the requirements of AQCC Reg.#8



Colorado Department of Public Health and Environment

ASBESTOS CERTIFICATION*

This certifies that

Jeff Kirtley

Certification No.: 9683

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: November 12, 2015

Expires: November 12, 2016

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

thorized APCD Representative

SEAL