

City of Pacific

INVITATION FOR BID



Project Name: Demolition/Land Clearance and Asbestos Abatement
 Point of Contact: Steve Roth, City Administrator
 Telephone Number: 636-271-0500 ext 213
 E-Mail address: sroth@pacificmissouri.com

RETURN BID NO LATER THAN: October 29, 2020, 2 p.m. Bids must be sealed.

RETURN BID TO: Office of City Clerk, 300 Hoven Drive, Pacific MO 63069

The bidder hereby declares understanding, agreement and certification of compliance to provide the items and/or services, at the prices quoted, in accordance with all requirements and specifications contained herein. The bidder further agrees that upon receipt of an authorized purchase order from the City of Pacific, Missouri or when this document is countersigned by an authorized official of the City of Pacific, a binding contract shall exist between the bidder and the City of Pacific, Missouri.

Authorized Signature		Date
Printed Name		Title
Company Name		
Mailing Address		
City, State, Zip		
		Federal Employer ID No.
Phone No.	Fax No.	E-Mail Address

NOTICE OF AWARD (City USE ONLY)	
	Contract Period
Date	Mayor

Part One Introduction and General Information

1. Introduction:

This document constitutes an invitation for competitive, sealed proposals for the provision of demolishing and clearing various structures (10 residential and one non-residential) located in the City of Pacific, Missouri. Demolition of the structures may include asbestos abatement as detailed further in the scope of work.

The City is in the process of acquiring properties listed in this bid package. The contractor shall provide pricing for each property listed. Demolition of each property is contingent upon the City completing the acquisition and taking clear title to the property. The City intends issuing a Notice to Proceed in late November or early December, 2020 for those properties that are acquired at that time. The City in its sole discretion may issue a second Notice to Proceed for properties that are acquired after that date. The City anticipates acquisitions of properties included in this notice to be completed no later than December, 2020.

2. Organization:

This document, referred to as an Invitation for Bid (IFB), is divided into the following parts:

- 2.1.1 Part One: Introduction and General Information
- 2.1.2 Part Two: Scope of Services
- 2.1.3 Part Three: Proposal Submission Information
- 2.1.4 Exhibits A and B
 - Exhibit A: Pricing Page and Individual Bid Forms
 - Exhibit B: Prior Experience

3. Background:

- 3.1 The City of Pacific, Missouri has been approved for federal and state funds to purchase flood-damaged homes. The City has been working with state and federal agencies to develop and implement programs designed to help homeowners and tenants who experienced damage by the April-May, 2017 floods.
- 3.2 The government of the City of Pacific, Missouri approved and authorized City staff to establish and administer a flood recovery program, which allowed for the acquisition of flood-damaged homes located within the City of Pacific, Missouri.
- 3.3 In accordance with the flood buyout policy, to complete the program the City must procure a qualified contractor to demolish the acquired properties. The procurement of the contractor must be through a competitive bid process.

4. General Information

4.1 Receipt and Opening of Bids

The City of Pacific, Missouri invites bids on the form attached hereto, all blanks of which must be appropriately filled in. **Bids will be received by the owner at the Office of the City Clerk until 2 p.m. October 29, 2020 and then at the Pacific Government Center Board of Aldermen meeting chambers, 300 Hoven Drive, publicly opened and read aloud.** The envelopes containing the bids must be sealed, addressed to Office of City Clerk, 300 Hoven Drive, Pacific MO 63069, (if mailed, double enveloped) and designated as bid for **April-May 2017 Flood Demolition.**

The City of Pacific, Missouri may consider informal any bid not prepared and submitted in accordance with the provisions hereof and may waive any information or reject any and all bids. Any bid may be withdrawn prior to the above scheduled time for the opening of bids or authorized postponement thereof. Any bid received after the time and date specified shall not be considered. No bidder may withdraw a bid within 30 days after the actual date of the opening thereof.

4.2 Bid Security

Each bid must be accompanied by cash, certified check of the bidder, or a bid bond prepared on the form of bid bond attached hereto, duly executed by the bidder as principal and having as surety thereon a surety company approved by the City of Pacific, Missouri in the amount of 5% of the bid. Such cash, checks or bid bonds will be returned to all except the three lowest and best bidders within three days after the opening of the bids, and the remaining cash, checks or bid bonds will be returned promptly after the City of Pacific, Missouri and the accepted bidder have executed the contract, or if no award demand of the bidder at any time thereafter, so long as she/he has not been notified of the acceptance of his/her bid.

4.3 Liquidated Damages for Failure to Enter Into Contract

The successful bidder, upon his/her failure or refusal to execute and deliver the contract and bonds required within 10 days after she/he received notice of the acceptance of his/her bid, shall forfeit to City of Pacific, Missouri, as liquidated damages for such failure or refusal, the security deposited with his/her bid.

4.4 Time of Completion and Liquidated Damages

Bidder must agree to commence work on or before a date to be specified in a written "Notice to Proceed" by City of Pacific, Missouri and to fully complete the project within 60 consecutive calendar days thereafter. Bidder must agree also to pay as liquidated damages, the sum of \$250.00 for each consecutive calendar day thereafter as hereinafter provided in the Reporting Requirements.

4.5 Addenda and Interpretations

No interpretation of the meaning to the plans, specifications or other pre-bid documents will be made to any bidder.

Every request for such interpretations should be in writing addressed to Office of City Administrator, 300 Hoven Drive, City of Pacific, MO 63069 and to be given consideration must be received at least five days prior to the date fixed for the opening of bids. Any and all such interpretations and any supplemental instructions will be in the form of written addenda to the specifications which, if issued, will be mailed by certified mail with the return receipt requested to all prospective bidders (at the respective addresses furnished for such purposes), not later than three days prior to the date fixed for the opening of bids. Failure of any bidder to receive any addendum or interpretation shall not relieve such bidder from any obligation under his/her bid as submitted. All addenda so insured shall become part of the contract documents.

4.6 Security for Faithful Performance

Simultaneously with his/her delivery of the executed contract, the Contractor shall furnish a surety bond or bonds as security for faithful performance of this contract and for the payment of all persons performing labor on the project under this contract and furnishing materials in connection with this contract, as specified herein. The surety bond or bonds as security for faithful performance, must be in the amount of \$50,000 or the bid price of the contract, whichever is higher, and is required within 24 hours of award of this contract. The surety on such bond or bonds shall be a duly authorized surety company satisfactory to the City of Pacific, Missouri.

4.7 Power of Attorney

Attorneys-in-fact who sign bid bonds or contract bonds must file with each bond a certified and effectively dated copy of their power of attorney.

4.8 **ASBESTOS COMPLIANCE:** Contractor shall comply with the Missouri Air Conservation law, Rs.Mo.643, Sections 225-250, Missouri regulation 10 CFR 10.6.080, 10 CFR 6.240, and 10 CFR 6.250, EPA regulations at 40 CFR Part 61 governing asbestos, and OSHA worker protection regulations.

4.9 **ASSIGNMENTS AND SUBCONTRACTS:** Contractor shall not assign any interest on this Contract, and shall not transfer any interest in the same (whether by assignment or invitation), without prior written consent of the Owner thereto: Provided, however, that the claims for money by Contractor from the Owner under this Contract may be assigned to a bank, trust company, or other financial institution without such approval. Written notice of any such assignment or transfer shall be furnished promptly to the Owner.

4.10 **TERMINATION OF CONTRACT FOR CAUSE:** If through any cause, Contractor shall fail to fulfill in a timely and proper manner their obligations under this Contract, or if Contractor shall violate any of the covenants, agreements, or stipulations of this Contract, the Owner shall thereupon have the right to terminate this Contract by giving written notice to Contractor of such termination and specifying the effective date thereof, at least five days before the effective date of such termination. In such event, all finished or unfinished documents and reports prepared by Contractor under this Contract shall, at the option of the Owner, become its property and Contractor shall be entitled to receive just and equitable compensation for any work satisfactorily completed thereunder. Notwithstanding the above, Contractor shall not be relieved of liability to the Owner for damages sustained by the Owner by virtue of any breach of Contract by Contractor, and

the Owner may withhold any payments to Contractor for the purpose of set-off until such time as the exact amount of damages due to the Owner from Contractor is determined.

4.11 TERMINATION FOR CONVENIENCE BY THE OWNER: The Owner may terminate this Contract at any time by giving at least ten (10) days notice in writing to Contractor. If the Contract is terminated by the Owner as provided herein. Contractor will be paid for the time provided and expenses incurred up to the termination date. If this Contract is terminated due to the fault of the Contractor, Paragraph 1 hereof to termination shall apply.

4.12 PROTECTION OF LIVES AND HEALTH: Contractor shall exercise proper precaution at all times for the protection of persons and property and shall be responsible for all damages to persons or property, either on or off the site, which occur as a result of his prosecution of the work. The safety provisions of applicable laws and building and construction codes, in addition to specific safety and health regulations described by Chapter XIII, Bureau of Labor Standards, Department of Labor, Part 1518, Safety and Health Regulations for Construction, as outlined in the Federal Register, Volume 36, No. 75, Saturday, April 17, 1971. Title 29 - LABOR, shall be observed and the Contractor shall take or cause to be taken, such additional safety and health measures as the Contracting Authority may determine to be reasonably necessary.

Safety Training

a. Contractor shall provide a ten (10) hour Occupational Safety and Health Administration (OSHA) construction safety program for all employees who will be on-site at the Project. The construction safety program shall include a course in construction safety and health that is approved by OSHA or a similar program approved by the Missouri Department of Labor and Industrial Relations which is at least as stringent as an approved OSHA program as required by Section 292.675, RSMo.

b. Contractor shall require its on-site employees to complete a construction safety program within sixty (60) days after the date work on the Project commences.

c. Contractor acknowledges and agrees that any of Contractor's employees found on the Project site without documentation of the successful completion of a construction safety program shall be required to produce such documentation within twenty (20) days, or will be subject to removal from the Project.

d. Contractor shall require all of its Subcontractors to comply with the requirements of this Section and Section 292.675, RSMo.

Notice of Penalties for Failure to Provide Safety Training

a. Pursuant to Section 292.675, RSMo, Contractor shall forfeit to City as a penalty two thousand five hundred dollars (\$2,500), plus one hundred dollars (\$100.00) for each on-site employee employed by Contractor or its Subcontractor, for each calendar day, or portion thereof, such on-site employee is employed without the construction safety training required in above Paragraph.

b. The penalty described in Subsection a. of this Section shall not begin to accrue until the time periods described in Paragraph b and c above have elapsed.

c. Violations of above Paragraph and imposition of the penalty described in this Section shall be investigated and determined by the Missouri Department of Labor and Industrial Relations.

4.13 REGULATIONS PURSUANT TO SO-CALLED "ANIT-KICKBACK ACT" Title 18, U.S.C.

874 Kickbacks from public works employees: Whoever, by force, intimidation, or threat of procuring dismissal from employment, or by any other manner whatsoever induces

any person employed in the construction, prosecution, completion or repair of any public building, public work, or building or work financed in whole or in part by loans or grants from the United States, to give up any part of the compensation to which he is entitled under his contract of employment, shall be fined not more than \$5,000 or imprisoned not more than five years, or both.

4.14 AUTHORIZED EMPLOYEES: Contractor acknowledges that Section 285.530, RSMo, prohibits any business entity or employer from knowingly employing, hiring for employment, or continuing to employ an unauthorized alien to perform work within the state of Missouri. Contractor therefore covenants that it is not knowingly in violation of subsection 1 of Section 285.530, RSMo, and that it will not knowingly employ, hire for employment, or continue to employ any unauthorized aliens to perform work on the Project, and that its employees are lawfully to work in the United States.

4.15 ER CONDITIONS OF APPROVAL. Contractor is further informed of the following:

- The City will utilize the Uniform Relocation Act process in the acquisition of properties.
- In accordance with 24 CFR 55.12 (C) (iii) a permanent covenant or comparable restriction shall be placed on properties continued use to preserve the floodplain or wetland from future development.
- If fill material is needed, fill material location, which will be determined by the contractor, requires SHPO approval, tribal consultation, contamination and toxic materials review and contact with appropriate agencies before demolition begins. Any asbestos will be handled according to requirements. Asbestos and demolition waste will be disposed of at appropriate locations in accordance with applicable laws. Disposal receipts shall be required. The demolition contractor will be required to produce landfill receipts to ensure that demolition debris was disposed of properly.

The contractor shall adhere to mitigation measures and General Recommendations set forth in the Endangered Species section of this report. In particular, the following measures will be taken by the contractor and documented:

- All tree removal will occur between November 1 and March 31. Contact USFWS if any tree removal will take place.
- Staging areas for crew, equipment, and materials will be established well away from streams and rivers or highly erodible soils.
- Silt fences will be included for retention of storm water runoff for reducing sediment introduction into natural waterways, especially along slopes, and will be monitored after rainfall.
- The contractor will ensure that work managers are alert for endangered bats near project activities. If bats are observed within any structures to be demolished, USFWS will be contacted prior to demolition and any resulting recommendations will be followed.
- The contractor will grade and seed the areas with appropriate native plants. Annual non-native grasses such as rye or wheat may be planted in conjunction with native species to provide short-term erosion control.

Part Two
Scope of Services

1. **General Requirements:**

- A. *Bidders must carefully examine the entire site of the work and must make all necessary investigations to inform themselves thoroughly as to the facilities available, as well as to all the difficulties involved in the completion of all work in accordance with the specifications and any plans. Bidders are required to examine any maps, plans and data mentioned in the specifications. No plea of ignorance of conditions that exist, or that may hereafter exist, or of conditions or difficulties that may be encountered in the execution of the work under this contract will be accepted as an excuse for any failure or omission on the part of the Contractor to fulfill in every detail of all the requirements of this contract, nor accepted as a basis for any claims for extra compensation.*
- B. The contractor shall provide demolition and debris removal services as may be requested by the City of Pacific, Missouri in accordance with the terms and conditions of this Invitation for Bid.
- 1.1 This agreement is not intended to create, and shall not be construed to create, a relationship of principal and agent, master and servant, employer and employee, joint venture, partnership, nor any relationship other than that of independent contractor.
- 1.2 The contractor shall agree and understand that the contract shall not be construed as an exclusive arrangement and further agrees that the City of Pacific, Missouri may secure identical and/or similar services from other sources at any time in conjunction with or in replacement of the contractor's services.
- 1.3 Except as provided herein, this agreement will not be altered without mutual consent of both parties. City of Pacific, Missouri and the Contractor may, by mutual agreement, agree to changes in the work to be performed by the Contractor as described in the Agreement documents.

2. **Specific Requirements:**

- 2.1 The Contractor will commence and complete all services as defined in this Invitation for Bid pertaining to the demolition of residential sites located in City of Pacific, Missouri.
- 2.1.1 It is understood that, except as otherwise specifically stated in the contract Documents, the Contractor shall provide, pay for and furnish all equipment, labor, tools, water, light, power, transportation, superintendence, temporary construction of every nature, and all other services and facilities of every nature whatsoever necessary to execute, complete, and deliver the work within the specified time.

2.2 The initial term of this Agreement shall commence on the execution hereof and shall expire upon satisfactory completion and acceptance by the City of Pacific, Missouri of the work performed by the Contractor.

2.3 Building Demolition

2.3.1 Start-up:

A demolition permit must be secured (if required) from the City of Pacific, Missouri before proceeding with the work under this contract. Regulations from the City governing demolition permits hereby becomes a part of these specifications. Demolition fees will be waived by the City.

The City assumes no responsibilities for the actual condition of the structures to be demolished.

The use of explosives is *NOT* permitted.

The burning of refuse and debris is *NOT* permitted.

The Contractor will ensure safe passage of persons around the area of demolition and will conduct operations in a manner that prevents injury to people, adjacent buildings, structures, vehicles, and other facilities.

2.3.2 Foundation leveling and backfill:

The Contractor shall push in all walls of the foundations and backfill with clean, imperishable fill material. All foundation walls and footing **MUST** be covered with at least three (3) feet of CLEAN fill.

Only imperishable material shall be used by the Contractor in backfilling the basement up to within 12" of the ground surface level. The top 12" of soil will be compacted to 90 percent Standard Proctor maximum dry density.

Any additional dirt to be brought in to provide cover as required by this contract shall be brought in, placed, compacted and leveled in accordance with the standards above and at the expense of the Contractor. Only fill material from a source approved by the Missouri Department of Natural Resources shall be permitted. Borrow sites are approved on a case-by-case basis. For more information contact:

Missouri Department of Natural Resources
Historic Preservation
PO Box 176
Jefferson City, Missouri 65102
(573) 751-7862

2.3.4 Concrete pads/slabs:

Concrete pads, slabs, sidewalks, or driveways will be removed and may be disposed of onsite (if applicable) if buried below grade with 3' of minimum cover of CLEAN fill.

2.3.5 Inoperable automobiles, trucks, boats and trailers shall be removed from site by acceptable and approved towing methods.

2.3.6 The Contractor shall disconnect, or have disconnected, all utilities. The Contractor shall verify whether or not underground storage tanks or lagoons are present at the project site. Septic tanks are to be cleaned out/pumped dry and either be broken up and used in back fill or filled with sand. Lagoons are to be cleaned out/pumped dry, covered with CLEAN fill and leveled.

2.3.7 Fence Removal:

The Contractor will remove all fence, gates, posts, mesh etc. Posts will be removed a minimum of twenty-four (24) inches below the existing ground elevation. Posts will not be permitted to be cut off at ground level.

2.3.8 The Contractor is responsible for ensuring that debris does not fall from or blow off transporting vehicles en route to a sanitary landfill.

2.3.9 The Contractor shall keep the project area and public rights-of-way reasonably clear at all times and on completion of the work, the Contractor shall remove all equipment and materials brought onto the project area by the Contractor and used in the performance of the contract and shall leave the entire project area in a totally cleared, neat and level condition. Trash burning on the project area is prohibited and none of the materials required to be removed from the project area under this contract shall be buried on the project area or deposited or placed at any place other than a sanitary landfill.

2.3.10 The Contractor shall be permitted to salvage any items.

2.3.11 The Contractor shall remove trees, shrubs, grass, and other vegetation, improvements, or obstructions which interfere with demolition. Removal includes digging out stumps and roots. All debris associated with this removal will be hauled away at the Contractor's expense. No burning is permitted. In no way will the Contractor remove any trees for his own personal use.

2.3.12 The Contractor may remove only trees that are necessary for the completion of the demolition of structures and improvements in accordance with the provisions of this contract. Wherever trees are encountered adjacent to the work, the operations of the contractor must be so organized and carried out as to not disturb or destroy any trees except as directed by the City or where permission has been obtained from the City.

2.3.13 If the Contractor should encounter any unforeseen hazardous wastes (other than ACM's and/or household contaminate wastes), he shall stop work immediately and notify the City for the next action to be taken. This shall also apply to any underground storage tanks that were not previously identified.

2.4 Lot Restoration

- 2.4.1 The Contractor shall leave the demolition and project site clean and free of any and all debris.
- 2.4.2 The Contractor shall grade the ground surface to conform to the existing adjacent grades and to insure surface drainage.
- 2.4.3 The Contractor is **NOT** responsible for seeding or mulching.

2.5 Asbestos Abatement/Hazardous Materials

- 2.5.1 All structures have been inspected for hazardous containing materials by SCI Engineering:

SCI Engineering
 Mr. Glen Grissom
 130 Point West Boulevard
 St Charles • MO • 63301
 Tel: (636) 757-1045

- 2.5.2 A copy of the bulk sampling survey conducted by SCI Engineering is available for review upon request.
- 2.5.3 The work shall consist of providing supervision, labor, materials, equipment, and services required to remove and dispose of all asbestos contained in the following properties:

Address	Material To Be Removed	RACM to Be Removed	Nonfriable Asbestos Material To Be Removed		Nonfriable Asbestos Material Not To Be Removed	
			Cat I	Cat II	Cat I	Cat II
114 E Congress	Duct wrap, Transite Siding	5	-	1660	-	-
220 E. Central	Transite Siding	-	-	2370	-	-
223 S Columbus	NONE	-	-	-	-	-
225 E Orleans St	Duct Tape, Window Glaze	12	-	-	-	60
225 E Orleans St	Floor Tile, Transite Siding	-	560	1800	-	-
302 S Elm	Duct paper	55	-	-	-	-

302 S Elm	Sheet Flooring, Transite Siding, Duct Paper	343	-	2260	-	-
312 E Orleans	Duct Tape, Tansite siding	15	-	1800	-	-
321 E Orleans	Window Glazing	-	-	-	-	400
321 E Orleans	Transite siding	-	-	3450	-	-
422 S Third	Transite siding	-	-	1400	-	-
526 S First	Duct Tape, Window Glaze	15	-	-	-	350
526 S First	Sheet Flooring, Transite Siding, Duct Paper	575	-	2160	-	-
718 S Fourth	Window Glazing	-	-	-	-	25
804 S First St	Window Door Caulk	-	-	-	-	450
804 S First St	Duct Tape, Transite Siding	15	-	3100	-	-

Copies of the inspection reports for each property is included with this bid package.

2.5.4 Said work is to be completed in accordance with all applicable federal and state rules and regulations. It is the responsibility of the applicant contractor to assure that all hazardous materials encountered during the demolition or grading of the project are properly disposed of by the Contractor. Questions concerning identification and disposal of hazardous materials may be directed to:

REGIONAL DNR OFFICE

St. Louis Regional Office
7545 S. Lindbergh, Suite 210
St. Louis, MO 63125
314-416-2960
314-416-2970 fax

JEFFERSON CITY DNR OFFICE

Department of Natural Resources
Air Pollution Control Program
PO Box 176
Jefferson City, Missouri 65102-0176
(573) 751-4817

2.5.5 The Department of Natural Resources (addresses listed above) must be notified at least ten (10) days prior to the removal of any asbestos containing materials.

DNR must be notified at least 10 days prior to the demolition of any structure regardless of whether it contains ACMs. Information that must be included with this notification:

Date of Demolition
Property Address
Demolition Contractor Name

2.5.6 **Third Party Air Monitoring is no longer required.**

3. **Insurance:**

- 3.1 The Contractor shall not commence work under this contract until all the insurance required under this section has been obtained and such insurance has been approved by the City of Pacific, Missouri, nor shall the contractor allow any subcontractor to commence work on a subcontract until the insurance required of the subcontractor has been so obtained and approved.
 - 3.1.1 Payment of worker compensation, overtime and any other required coverage, are the exclusive responsibility of the Contractor as required by local, state and/or federal law or regulations, when applicable.
 - 3.1.2 The Contractor shall provide Vehicle Liability coverage for all vehicles and equipment of the Contractor in the total liability limits of \$500,000 for injuries, including accidental death, to any one person, and subject to the same limit for each person, in an amount not less than \$500,000 on account of one accident.
 - 3.1.3 The Contractor must provide property damage insurance in an amount not less than \$500,000.
- 3.2 The Contractor shall furnish the City of Pacific, Missouri, certificates showing the type, amount, class of portions covered, effective dates and date of expiration of policies. Such certificates shall also contain substantially the following statement, "The insurance covered by this certificate will not be canceled or materially altered, except after ten (10) day written notice has been received by the City of Pacific, Missouri."

4. **Reporting Requirements:**

- 4.1 All notices required or authorized to be given to the Contractor by the City of Pacific, Missouri, pursuant to this Contract shall be delivered by certified mail to the person signing the Contract on behalf of the contractor as shown on the Contract page.
- 4.2 All notices required or authorized to be given to the City of Pacific, Missouri, by the Contractor pursuant to this Contract shall be delivered to the Office of City Administrator at City of Pacific, Missouri.
- 4.3 The Contractor must schedule and complete the property demolition within 60 calendar days from the date of notification from the City of Pacific, Missouri. **No exceptions!**

- 4.4 The Contractor shall immediately report by telephone to the City of Pacific, Missouri, when it is discovered that a time frame may not be met due to complications incurred during the normal scope of demolition work. Following award of this contract, the City of Pacific, Missouri, shall notify the Contractor of the contact personnel.

5. Other Requirements:

- 5.1 All reports and materials developed or acquired by the Contractor as a direct requirement specified in the contract shall become the property of the City of Pacific, Missouri. The Contractor shall agree and understand that all discussions with the Contractor and all information gained by the Contractor as a result of the Contractor's performance under the contract shall be confidential, and that no reports or material prepared, as required by the contract, shall be released to the public without prior written consent of the City of Pacific, Missouri.
- 5.2 Unless otherwise specified herein, the Contractor shall be responsible for furnishing all material, labor, facilities, equipment and supplies necessary to perform the service required herein.
- 5.3 The Contractor shall fully coordinate all activities in the performance of the contract with those of the City of Pacific, Missouri. As the work of the Contractor progresses, advice and information on matters covered by the Contractor shall be made available by the Contractor to the City of Pacific, Missouri, throughout the effective period of the contract.
- 5.4 Other Contractual Requirements:

5.4.1 Subcontractors:

If approved by the City of Pacific, Missouri, in writing, the contractor may subcontract for those services described herein provided that any subcontracts include appropriate provisions and contractual obligations to ensure the successful fulfillment of all contractual obligations agreed to by the contractor and the City and to ensure that the City is indemnified, saved, and held harmless from and against any and all claims of damage, loss, and cost (including attorney fees) of any kind related to a subcontract in those matters described in the contract between the City and the contractor. The contractor shall expressly understand and agree that he/she shall assume and be solely responsible for all legal and financial responsibilities related to the execution of a subcontract. The contractor shall agree and understand that utilization of a subcontractor to provide any of the equipment or services in the contract shall in no way relieve the contractor of the responsibility for providing the equipment or services as described and set forth herein.

5.4.2 Contractor Status:

The contractor represent himself or herself to be an independent contractor offering such services to the general public and shall not represent himself/herself or his/her employees to be an employee of the City of Pacific. Therefore, the contractor shall assume all legal and financial responsibility for taxes, FICA, employee fringe benefits, workers compensation, employee

insurance, minimum wage requirements, overtime, etc., and agrees to indemnify, save, and hold the City of Pacific and State of Missouri, its officers, agents, and employees from and against, any and all loss; cost (including attorney fees); and damage of any kind related to such matters.

5.4.3 Coordination:

The contractor shall fully coordinate all contract activities with those activities of the City. As the work of the contractor progresses, advice and information on matters covered by the contract shall be made available by the contractor to the City. The City's representative will visit the site at intervals appropriately to the stage of construction to become and remain familiar with the progress and quality of the work and to determine if the work is proceeding in accordance with the Contract. However, the City's representative will not be required to make exhaustive or continuous on-site inspections to check the work.

5.4.4 Property of City

All reports, documentation, and material developed or acquired by the contractor as a direct requirement specified in the contract shall become the property of the City. The contractor shall agree and understand that all discussions with the contractor and all information gained by the contractor as a result of the contractor's performance under the contract shall be confidential and that no reports, documentation, or material prepared as required by the contract shall be released to the public without the prior written consent of the City of Pacific.

5.4.5 Substitution of Personnel:

The contractor agrees and understands that the City's agreement to the contract is predicated in part on the utilization of the specific individual(s) identified in the bid. Therefore, the contractor agrees that no substitution of such specific individual(s) and/or personnel qualifications shall be made without the prior written approval of the City. The contractor further agrees that any substitution made pursuant to this paragraph must be equal or better than originally proposed and that the City's approval of a substitution shall not be construed as an acceptance of the substitution's performance potential. The City agrees that an approval of a substitution will not be unreasonably withheld.

6. Basis of Payment

- 6.1 The Contractor shall be paid in accordance with the firm, fixed prices stated on the Pricing Page.
- 6.2 Such payment shall be full compensation for services rendered, including, but not limited to, all labor, materials, supplies, equipment, and incidentals necessary to complete the services required herein, as well as profit and overhead.
- 6.3 The Contractor shall not be entitled to any other payments or reimbursements.

- 6.4 The Contractor and their subcontractors shall have full and exclusive liability for the payment of any and all taxes and contributions for unemployment insurance, retirement benefits, life insurance, pensions, annuities, and similar benefits, which may now or hereafter be imposed by law or collective bargaining agreements with respect to persons employed by the Contractor and their subcontractors for performance of the work under this Agreement.
- 6.5 The acceptance by the Contractor of final payment shall be and shall operate as a release to the City of Pacific, Missouri, of all claims and liability to the Contractor for all things done or furnished in connection with this work and for every act and neglect of the City of Pacific, Missouri, and others relating to or arising out of this work. No payment, however, final or otherwise, shall operate to release the Contractor from any obligations under this contract or the performance of the work completed.

7. Compliance With Laws:

- 7.1 The Contractor shall complete such action as is required to become fully informed of all State and National laws and municipal ordinances and regulations in any manner affecting those engaged or employed in the work, or the materials used in the work, or in any way affecting the conduct of the work and the Contractor shall at all times observe and comply with, all such existing and future laws, ordinances, regulations, orders and decrees and the Contractor shall further protect and indemnify City of Pacific, Missouri, and its officers and agents, from any claim or liability arising from or based on the violation of any law, ordinance, regulation, order or decree, whether by the Contractor or the Contractor's employees.

7.2 Prevailing Wage

Davis Bacon and / or State Prevailing Wage rates to be paid for asbestos abatement, if abatement contract is over \$2,000.

For demolition activities that are not associated with asbestos abatement, federal and state prevailing wage laws do not apply. **Because the buyout program by definition precludes future development of the site, demolition of the structures is simply land clearance, not site preparation.**

Part Three
Proposal Submission Information

1. Proposals must be price, signed, sealed and returned (with all necessary attachments) to the City of Pacific, Missouri, by the proposal receipt date and time specified.
2. Any award of a contract resulting from the IFB will be made only by written authorization from the City of Pacific, Missouri.
3. The offeror must provide prices for all requirements as set forth on the Pricing Page of the Invitation for Bid (Exhibit A), which must be completed, signed and returned.

4. Experience and Reliability:

- 4.1 Experience and reliability of the offeror's organization is considered in the evaluation process. Therefore, the offeror is advised to submit any information which documents successful and reliable experience in past performances, especially those performances related to the requirements of this IFB.

The contractor must provide certification that he/she is authorized and licensed to remove asbestos containing materials.

- 4.2 The offeror should provide the following information related to previous and current contracts, which are considered identical or similar to the requirements of the IFB.
 - 4.2.1 Name, address and telephone numbers of contracting agency and a contact person who may be contacted for verification of all data submitted.
 - 4.2.2 Dates of the contract
 - 4.2.3 A brief, written description of the specific prior services performed and requirements thereof.
 - 4.2.4 The capacity and capability of the Contractor to perform the work in question within the time frames required.

5. Evaluation Process:

- 5.1 The award of contract resulting from the IFB shall be based on the lowest and best proposal received in accordance with the evaluation criteria stated below:
 - 5.1.1 Cost
 - 5.1.2 Specialized Experience
 - 5.1.3 Capacity and Capability to meet deadline and applicable laws
 - 5.1.4 Past Record of Performance
 - 5.1.5 Proximity and Familiarity

EXHIBIT A

Pricing Page

All proposals must be specified or equal. Any deviation from specifications must be clearly stated and fully described. Offeror must complete, sign and return this document with the proposal.

Property Address	Cost to Demolish (as quoted on bid forms)
114 East Congress Street (residential structure)	
220 East Central (residential structure)	
223 South Columbus (residential structure)	
225 East Orleans (residential structure)	
302 South Elm (residential structure)	
312 East Orleans Street (residential structure)	
321 East Orleans (non-residential structure)	
422 S Third (residential structure)	
526 South First (residential structure)	
718 South Fourth Street (residential structure)	
804 South First Street (residential structure)	
Total	\$

Property Specifics: See the attached sheets for complete property specifics.

Name of Company: _____

Agent and Title: _____

Address: _____

Phone: _____

(Signature of Offeror)

(Date)

EXHIBIT B

Offeror's Prior Experience

Prior Services Performed For:

Address: _____

City: _____

State: _____ Zip: _____

Person Familiar with Performance: _____

Title: _____ Phone: _____

Description of Prior Services Performed:

Contract Periods:

From: _____ To: _____

Summary of Services Performed:

Offeror's Prior Experience

Prior Services Performed For:

Address: _____

City: _____

State: _____ Zip: _____

Person Familiar with Performance: _____

Title: _____ Phone: _____

Description of Prior Services Performed:

Contract Periods:

From: _____ To: _____

Summary of Services Performed:

Offeror's Prior Experience

Prior Services Performed For:

Address: _____

City: _____

State: _____ Zip: _____

Person Familiar with Performance: _____

Title: _____ Phone: _____

Description of Prior Services Performed:

Contract Periods:

From: _____ To: _____

Summary of Services Performed:

**Property Specific Page
(1 of 11)**

Property Address: 114 E Congress
Community: Pacific

Foundation: Crawl Space
Square Feet of Property: 1,102 sf
Detached Buildings: None

Description: Kitchen-updated-one to five years ago; Bathrooms-updated-one to five years ago; Subject is a 77 year old asbestos board sided 1-story ranch home. It has 5 rooms including living room, kitchen with breakfast area, 3 bedrooms and 1 full bath. The flooring is mainly hardwood, carpet, vinyl, and ceramic throughout. The kitchen includes wood cabinets, Formica counters, electric stove/cooktop, microwave, dishwasher and disposal. The home sits on a concrete crawl space foundation. There is a covered front porch in the front and rear. The subject has street parking. Home is well maintained and considered to be of average construction and condition.

Asbestos Containing Materials: YES. See attached Asbestos Survey Report

Other Hazardous Materials: None indicated in Asbestos Survey Report

Cost to Demolish (include cost to remove asbestos but NO costs for 3rd party air monitoring):

\$ _____

**Property Specific Page
(2 of 11)**

Property Address: 220 E. Central
Community: Pacific

Foundation: Crawl space
Square Feet of Property: 1,262 sf
Detached Buildings: Shed.

Description: Subject is a 77 year old vinyl sided ranch home. It has 5 rooms including living room, dining room, kitchen, laundry room, 2 bedrooms and a full bath. The flooring is mainly carpet and wood laminate with vinyl in the kitchen & bath. The kitchen includes white hardwood cabinets, Formica counters, and electric stove. Home has been maintained and considered to be of average construction and condition.

Asbestos Containing Materials: YES. See attached Asbestos Survey Report

Other Hazardous Materials: None indicated in Asbestos Survey Report

Cost to Demolish (include cost to remove asbestos but NO costs for 3rd party air monitoring):

\$_____

**Property Specific Page
(3 of 11)**

Property Address: 223 S. Columbus
Community: Pacific

Foundation: Concrete slab
Square Feet of Property: 1,668 sf
Detached Buildings: Utility shed / detached garage / carport

Description: The on-site structure is a 1,668-square-foot partial two-story residence with a detached garage and shed which appeared have been constructed in the 1800s with subsequent additions of unknown age. The exterior of the structure was brick masonry and vinyl siding with vinyl windows and an asphalt shingle/rolled asphalt roof. The structure utilized a forced air HVAC system.

Asbestos Containing Materials: NO. See attached Asbestos Survey Report

Other Hazardous Materials: None indicated in Asbestos Survey Report

Cost to Demolish (**include cost to remove asbestos but NO costs for 3rd party air monitoring**):

\$ _____

**Property Specific Page
(4 of 11)**

Property Address: 225 E. Orleans St
Community: Pacific

Foundation: Partial basement
Square Feet of Property: 1,004 sf
Detached Buildings: None

The on-site structure is an approximately 1,004-square-foot single-story residence with a partial basement and attached garage which appeared to have been constructed in the 1960s. The exterior of the structure was vinyl over transite siding with wood and vinyl windows, and an asphalt shingle roof. The structure utilized a forced air HVAC system.

Asbestos Containing Materials: YES. See attached Asbestos Survey Report

Other Hazardous Materials: None indicated in Asbestos Survey Report

Cost to Demolish (**include cost to remove asbestos but NO costs for 3rd party air monitoring**):

\$ _____

**Property Specific Page
(5 of 11)**

Property Address: 302 South Elm
Community: Pacific

Foundation: Partial basement
Square Feet of Property: 1,008
Detached Buildings: Garage / carport

The on-site structure is a 1,400-square-foot vacant, single-story residence with a basement and detached garage which appeared to be constructed in the 1950s. The exterior of the structure was vinyl over transite siding with metal and vinyl windows, and an asphalt shingle roof. The structure utilized a forced air HVAC system..

Asbestos Containing Materials: YES. See attached Asbestos Survey Report

Other Hazardous Materials: None indicated in Asbestos Survey Report

Cost to Demolish (**include cost to remove asbestos but NO costs for 3rd party air monitoring**):

\$ _____

**Property Specific Page
(6 of 11)**

Property Address: 312 E. Orleans
Community: Pacific

Foundation: Full basement
Square Feet of Property: 1,468 sf
Detached Buildings: None.

Subject is a 70 year old vinyl sided ranch home. It has 6 rooms including living room, kitchen with breakfast area, 3 bedrooms and 2 full baths. The flooring is mainly hard wood or carpet with vinyl in the kitchen and baths. The kitchen includes oak cabinets, Formica counters, electric stove, dishwasher and disposal. The full basement is unfinished. There is a patio and covered front porch.

Asbestos Containing Materials: YES. See attached Asbestos Survey Report

Other Hazardous Materials: None indicated in Asbestos Survey Report

Cost to Demolish (**include cost to remove asbestos but NO costs for 3rd party air monitoring**):

\$ _____

**Property Specific Page
(7 of 11)**

Property Address: 321 E. Orleans
Community: Pacific

Foundation: Full basement
Square Feet of Property: 3,210 sf
Detached Buildings: None.

Subject includes one (1) lot with a conventionally built commercial building and parking lot. There are 6 rooms and full basement and was most recently used as a church with fellowship hall, kitchen and classrooms. It has an asphalt parking lot. Building is of average construction and condition.

Asbestos Containing Materials: YES. See attached Asbestos Survey Report

Other Hazardous Materials: None indicated in Asbestos Survey Report

Cost to Demolish (**include cost to remove asbestos but NO costs for 3rd party air monitoring**):

\$ _____

**Property Specific Page
(8 of 11)**

Property Address: 422 S Third
Community: Pacific

Foundation: Crawl space
Square Feet of Property: 750 sf
Detached Buildings: Shed.

The on-site structure is an approximate 750-square-foot vacant single-story residence with detached shed which appeared to have been constructed in the 1960s. The exterior of the structure was vinyl and transite siding with vinyl windows and an asphalt shingle roof. The structure utilized a forced air HVAC system.

Asbestos Containing Materials: YES. See attached Asbestos Survey Report

Other Hazardous Materials: None indicated in Asbestos Survey Report

Cost to Demolish (**include cost to remove asbestos but NO costs for 3rd party air monitoring**):

\$ _____

**Property Specific Page
(9 of 11)**

Property Address:	526 S First
Community:	Pacific
Foundation:	Partial basement
Square Feet of Property:	1,608 sf
Detached Buildings:	Garage.

Subject is a 67 year old brick/vinyl 1.5 story/2-story/ranch home. It has 7 rooms including living room, dining room, kitchen with breakfast area, laundry room, 3 bedrooms and 2 full baths. The flooring is mainly hard wood/carpet with vinyl/ceramic in the baths. The kitchen includes oak/cherry/maple/Formica cabinets, granite/Corian/Formica counters, electric/gas stove/cooktop, B/I oven, microwave, dishwasher and disposal. The full basement is un/finished. There is a 2-car attached garage, deck and patio in the rear.

Asbestos Containing Materials: YES. See attached Asbestos Survey Report

Other Hazardous Materials: None indicated in Asbestos Survey Report

Cost to Demolish (include cost to remove asbestos but NO costs for 3rd party air monitoring):

\$_____

**Property Specific Page
(10 of 11)**

Property Address: 718 S Fourth
Community: Pacific

Foundation: Full basement
Square Feet of Property: 952 sf
Detached Buildings: None

The on-site structure is a 952-square-foot vacant single-story residence with basement constructed in 1940. The exterior of the structure was vinyl siding with vinyl windows and an asphalt shingle roof. The structure utilized a forced air HVAC system.

Asbestos Containing Materials: YES. See attached Asbestos Survey Report

Other Hazardous Materials: None indicated in Asbestos Survey Report

Cost to Demolish (**include cost to remove asbestos but NO costs for 3rd party air monitoring**):

\$ _____

**Property Specific Page
(11 of 11)**

Property Address: 804 S First St
Community: Pacific

Foundation: Partial basement
Square Feet of Property: 1,564 sf
Detached Buildings: None

Subject is a 70 year old asbestos shingle, 1-story ranch home. It has 6 rooms including living room, dining room, kitchen, 3 bedrooms and 1 full bath. The flooring is mainly hardwood, carpet, vinyl & ceramic throughout. The kitchen includes wood cabinets, Formica counters, electric stove/cooktop, microwave, dishwasher and disposal. The partial basement is unfinished. There is a 1-car attached garage, small front porch and small covered left side porch, and patio in the rear.

Asbestos Containing Materials: YES. See attached Asbestos Survey Report

Other Hazardous Materials: None indicated in Asbestos Survey Report

Cost to Demolish (**include cost to remove asbestos but NO costs for 3rd party air monitoring**):

\$_____



SCI ENGINEERING, INC.

EARTH • SCIENCE • SOLUTIONS

GEOTECHNICAL
ENVIRONMENTAL
NATURAL RESOURCES
CULTURAL RESOURCES
CONSTRUCTION SERVICES

August 21, 2020

Mr. Steve Roth
City of Pacific
300 Hoven Drive
Pacific, Missouri 63069

RE: Asbestos Survey Activities
114 E. Congress Street
Pacific, Missouri
SCI No. 2020-0510.20 Task 009

Dear Mr. Roth:

INTRODUCTION

SCI Engineering, Inc. (SCI) is pleased to submit this report of the analytical test results for samples of suspect asbestos-containing materials (ACMs) collected during the survey performed on August 6, 2020. The survey was conducted by Mr. Dan Vielweber and Mr. Travis Clayton Missouri-Licensed Asbestos Inspectors. A copy of the asbestos inspector licenses is enclosed.

The purpose of this survey was to identify ACMs in accessible areas of the vacant residence addressed as 114 E. Congress Street in Pacific, Missouri. This survey is intended to satisfy the requirements for the asbestos National Emission Standard for Hazardous Air Pollutant (NESHAP) for demolition and renovation and may also be used for Occupational Safety and Health Administration (OSHA) compliance.

The on-site structure is a 1,200-square-foot vacant, single-story residence which appeared to have been constructed in the 1960s. The exterior of the structure was transite siding with wood windows, and an asphalt shingle roof. The structure utilized a forced air HVAC system.

LIMITATIONS

SCI's asbestos survey entailed visually assessing accessible areas only. If any other suspect asbestos materials are discovered during demolition or renovation, please contact SCI, and we will make arrangements for assessment of these materials. Areas behind walls, under subfloors and above fixed ceilings are considered non-accessible.

During the course of performing the survey of the structure, SCI was able to access all locations within the structure.

ASBESTOS SURVEY

Twenty samples were collected from the on-site structure. These samples were analyzed by Polarized Light Microscopy (PLM). Of the 20 samples analyzed, two were found to contain asbestos. Analytical

test results and chain-of-custody documentation are enclosed. The results of the analysis of all samples are summarized in Table 1.

Table 1 - Summary of Analytical Test Results

Sample Number	Material Location	Material Description	Approx. Quantity	Result	Category
114-001a	Ceilings	Drywall System	1,200 sf	None Detected in Drywall or Joint Compound	--
114-001b				None Detected in Drywall or Joint Compound	
114-001c				None Detected in Drywall or Joint Compound	
114-002a	Ceilings	Texture	1,200 sf	None Detected	--
114-002b				None Detected	
114-002c				None Detected	
114-003	Ducts	Duct Wrap	5 sf	85-90% Chrysotile	Friable
114-004	Exterior	Transite Siding	1,660 sf	25-30% Chrysotile	NCII
114-005a	Exterior	Window Glaze	270 lf	None Detected	--
114-005b				None Detected	
114-005c				None Detected	
114-006a	Exterior	Window/Door Caulk	330 lf	None Detected	--
114-006b				None Detected	
114-006c				None Detected	
114-007a	Exterior	Tar Paper	1,660 sf	None Detected	--
114-007b				None Detected	
114-007c				None Detected	
114-012A	Roof	Asphalt Shingles	1,500 sf	None Detected	--
114-012B				None Detected	
114-012C				None Detected	

sf - square feet

lf - linear feet

NCII - Non-Friable Category II Material

DEMOLITION/RENOVATION

According to the Missouri Department of Natural Resources (MDNR), any friable or potentially friable ACM equal to or greater than 260 linear feet or 160 square feet is classified as a regulated ACM (RACM) and must be removed prior to demolition or renovation which would significantly damage the material.

The duct wrap is a friable material and, when considered in conjunction with other friable materials identified as part of this project, exceeds the minimum quantity requirements. This material, therefore, must be removed from the structure prior to demolition.

The transite siding is a Category II non-friable materials and according to the rule outlined above, is not, by definition, an RACM. However, it is the opinion of the MDNR that demolition activities will render this material friable and, therefore, it must be removed prior to demolition. If the transite is removed in an intact state, it may be removed by a contractor with asbestos awareness training. Otherwise, the material should be abated by a licensed abatement contractor.

The Occupational Safety & Health Administration also has regulations (29 CFR Parts 1910 et al, Occupational Exposure to Asbestos, August 10, 1994) regarding removal of asbestos-containing materials which must be followed.

REPORTING

Attached is Missouri Department of Natural Resources' (MDNR) Notification of Demolition and Renovation form, which has been filled out to the extent possible by SCI. The remaining information must be completed by you.

This report, as well as the completed EPA Notification of Demolition and Renovation form, must be submitted to the MDNR as follows:

- Ms. Stephanie Hamilton, MDNR, Air Pollution Control, PO Box 176, Jefferson City, MO, 65102 at asbestosnotifications@dnr.mo.gov.

It should be noted that following submittal of the notification form, there is a ten-day waiting period before demolition, renovation, or abatement activities can begin.

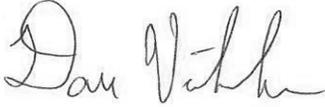
If this report is to be used for bidding purposes for asbestos abatement, SCI recommends the contractor visit the site to verify all conditions and quantities.

SCI appreciates the opportunity to be of service to you on this project, and we look forward to working with you in the future.

Please contact us if you have any questions or comments regarding the information provided.

Respectfully,

SCI ENGINEERING, INC.



Daniel P. Vielweber
Missouri State Certified Asbestos Inspector
Certificate Number 7118092019MOIR20150



Glen A. Grissom
Senior Specialist

DPV/GAG/rah

Enclosures

Asbestos NESHAP Notification of Demolition and Renovation
Analytical Test Results and Chain of Custody
Asbestos Inspector Certificate

CERTIFICATION NUMBER:

7011012720MOIR18366

THIS CERTIFIES

Travis S Clayton

HAS COMPLETED THE CERTIFICATION

REQUIREMENTS FOR

Inspector



APPROVED: **02/25/2020**

EXPIRES: **02/25/2021**

TRAINING DATE: **01/27/2020**

A handwritten signature in blue ink, appearing to read "James A. Byher".

Director of Air Pollution Control Program

CERTIFICATION NUMBER:

7118092019MOIR20150

THIS CERTIFIES

Daniel Vielweber

HAS COMPLETED THE CERTIFICATION

REQUIREMENTS FOR

Inspector



APPROVED: **09/27/2019**

TRAINING DATE: **09/20/2019**

EXPIRES: **09/27/2020**

Director of Air Pollution Control Program

The holder of this card is certified to conduct the specified occupation in conjunction with an asbestos abatement project under the certification requirements, in RSMo, 10 CSR 10-6.250.

It is unlawful for any person to use this card other than the individual to whom it is issued or in any manner inconsistent with the law.

Violations of Missouri State Rule 10 CSR 10-6.080, "Emission Standards for Hazardous Air Pollutants," which adopts by reference 40 CFR, Part 61, Subpart M, the "National Emission Standards for Asbestos," are subject to fines of not more than \$10,000 per day per violation. This Missouri State Certification is subject to review and the director may deny, suspend or revoke this certification per RSMo, chapter 643.230.

If found, please return to:



MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

Air Pollution Control Program

P.O. Box 176

Jefferson City, MO 65102

Phone: (573)751-4817 Fax: (573)751-2706

www.dnr.mo.gov/env/apcp



**PRECISION
ANALYSIS, INC.**
BULK SAMPLE ANALYSIS

Client: SCI Engineering, Inc.
Project No.: 2020-0510.20
Project Name: City of Pacific ACM Survey

Date Received: 08-10-20

Date Reported: 08-11-20

**Technique: Polarized Light Microscopy with Dispersion Staining
In accordance with EPA/600/R-93/116 Test Method**

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
397458	114-1a Drywall	None Detected	Cellulose	Binders
397459	114-1b Drywall	None Detected	Cellulose	Binders
397460	114-1c Drywall	None Detected	Cellulose	Binders
397461	114-1a Joint Compound	None Detected		Binders, Polyfoam, Aggregate, Paint, Mica
397462	114-1b Joint Compound	None Detected		Binders, Polyfoam, Aggregate, Paint, Mica
397463	114-1c Joint Compound	None Detected		Binders, Polyfoam, Aggregate, Paint, Mica
397464	114-2a	None Detected		Binders, Polyfoam, Paint, Mica
397465	114-2b	None Detected		Binders, Polyfoam, Paint, Mica
397466	114-2c	None Detected		Binders, Polyfoam, Paint, Mica
397467	114-3	85-90% Chrysotile	Antigorite	Binders

* The upper detection limit is 100 percent.
The lower detection limit is less than 1 percent.



**PRECISION
ANALYSIS, INC.**
BULK SAMPLE ANALYSIS

Client: SCI Engineering, Inc.
Project No.: 2020-0510.20
Project Name: City of Pacific ACM Survey

Date Received: 08-10-20

Date Reported: 08-11-20

**Technique: Polarized Light Microscopy with Dispersion Staining
In accordance with EPA/600/R-93/116 Test Method**

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
397468	114-4	25-30% Chrysotile	Antigorite	Binders, Paint, Aggregate
397469	114-5a	None Detected		Binders, Paint
397470	114-5b	None Detected		Binders, Paint
397471	114-5c	None Detected		Binders, Paint
397472	114-6a	None Detected		Binders, Paint
397473	114-6b	None Detected		Binders, Paint
397474	114-6c	None Detected		Binders, Paint
397475	114-7a	None Detected	Cellulose	Black Tar Binders
397476	114-7b	None Detected	Cellulose	Black Tar Binders
397477	114-7c	None Detected	Cellulose	Black Tar Binders
397478	114-8a	None Detected	Cellulose, Glass Wool	Black Tar Binders, Aggregate
397479	114-8b	None Detected	Cellulose, Glass Wool	Black Tar Binders, Aggregate

* The upper detection limit is 100 percent.
The lower detection limit is less than 1 percent.



**PRECISION
ANALYSIS, INC.**
BULK SAMPLE ANALYSIS

Client: SCI Engineering, Inc.
Project No.: 2020-0510.20
Project Name: City of Pacific ACM Survey

Date Received: 08-10-20

Date Reported: 08-11-20

**Technique: Polarized Light Microscopy with Dispersion Staining
In accordance with EPA/600/R-93/116 Test Method**

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
397480	114-8c	None Detected	Cellulose, Glass Wool	Black Tar Binders, Aggregate

* The upper detection limit is 100 percent.
The lower detection limit is less than 1 percent.



Paul Spell
Laboratory Director

AIHA Bulk Asbestos Proficiency Analytical Testing Program ID # 101228
In Association with RTI Center for Measurements and Quality Assurance

PLM is not recommended for analysis of vinyl floor tile. Vinyl floor tile often contains milled asbestos with fiber lengths of 1 micrometer or less. Because these fibers are not detected by PLM, PLM analysis may yield a false negative result. We recommend qualitative analysis of vinyl floor tile by Transmission Electron Microscopy (TEM).

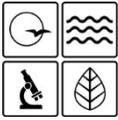
Precision Analysis assumes no responsibility for financial or health consequences for action or lack of action taken by our clients or their agents as a result of these analytical reports. Since Precision Analysis was not involved in the collection of these samples, we cannot attest to the proper collection of said samples and therefore are neither responsible nor liable for the accuracy, validity or completeness of the sample collection.



BULK ASBESTOS CHAIN OF CUSTODY

130 Point West Boulevard
St. Charles, Missouri 63301
636-949-8200 Fax 636-949-8269
www.sciengineering.com

Company: SCI Engineering, Inc.		Please Provide Results Via: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail			
Street: 130 Point West Boulevard		To: <i>Trans Clayton</i>			
City/State/Zip: St. Charles, Missouri 63301		Telephone #: <i>618 208 3049</i> Fax #: 636-949-8269			
Project Name: <i>City of Pacific Park Swans</i>		Email: <i>tclayton@sciengineering.com</i>			
Project Number: <i>220-050120</i>					
Turnaround Time (TAT) Options - Please Check One					
<input checked="" type="checkbox"/> 3 Hour	<input type="checkbox"/> 6 Hour	<input type="checkbox"/> 24 Hour	<input type="checkbox"/> 48 Hour		
<input type="checkbox"/> 72 Hour	<input type="checkbox"/> 96 Hour	<input checked="" type="checkbox"/> Other	<i>5-Day</i>		
PLM Bulk Analysis <input checked="" type="checkbox"/> PLM-EPA 600 <input type="checkbox"/> PLM-EPA 600 NOB <input type="checkbox"/> PLM-Point Count <input checked="" type="checkbox"/> Check Box for Stop Positive					
Comments: <i>Address: 114 E. Congress</i>					
Samplers Name: <i>Trans Clayton/Dan Viehwar</i>	Samplers Signature:	Date Sampled: <i>9/6/2020</i>			
Building Use/Description/Features: <i>Vent Single-story Residence of detached steel frame</i>		Age: <i>~ 60 years</i>	Size: <i>~ 1,200 sq ft</i>		
Windows: <i>Wood</i>	Siding: <i>Transite</i>	Roof: <i>Asphalt Shingle</i>	Attic: <i>Fiberglass</i>		
Sample #	Material Location	Material Description	Approx. Quantity	Condition	Comments
<i>114-001 A,B,C</i>	<i>Ceilings</i>	<i>Drywall System</i>	<i>1,200 sq ft</i>	<i>Good</i>	
<i>114-002 A,B,C</i>	<i>Ceilings</i>	<i>Texture</i>	<i>1,200 sq ft</i>	<i>Good</i>	
<i>114-003</i>	<i>Roofs</i>	<i>Roof Wrap</i>	<i>5 sq ft</i>	<i>Good</i>	
<i>114-004</i>	<i>Exterior</i>	<i>Transite Siding</i>	<i>1,660 sq ft</i>	<i>Good</i>	
<i>114-005 A,B,C</i>	<i>Exterior</i>	<i>Window Glaze</i>	<i>270 lf</i>	<i>Good</i>	
<i>114-006 A,B,C</i>	<i>Exterior</i>	<i>Window/Door Casings</i>	<i>330 lf</i>	<i>Good</i>	
<i>114-007 A,B,C</i>	<i>Exterior</i>	<i>Tar Paper</i>	<i>1,660 sq ft</i>	<i>Good</i>	<i>Under - 004</i>
<i>114-008 A,B,C</i>	<i>Roof</i>	<i>Asphalt Shingle Roofing System</i>	<i>1,500 sq ft</i>	<i>Good</i>	
Relinquished:	Date: <i>8/7/2020</i>	RECEIVED		Time: <i>1500</i>	
Received:	Date: <i>AUG 10 2020</i>	RECEIVED		Time:	
				BY: <i>1</i> of <i>1</i>	



ASBESTOS NESHAP NOTIFICATION OF DEMOLITION AND RENOVATION

GENERAL INSTRUCTIONS

NOTE: There is a \$100 review fee for this notification. Make checks payable to the department's Air Pollution Control Program or the appropriate local agency.

1. First-time notices = "Original." Amended projects = "Revision." Notice of cancellation = "Cancelled."
2. In the event that no asbestos removal was necessary, indicate "N/A" for asbestos removal contractor.
3. Indicate the type of project.
4. Mark the "YES" box if asbestos is present. In the next box, indicate what types of asbestos materials are present. Mark the "NO" box if no asbestos is present.
5. Failure to complete this section will result in an unapproved project. Include building uses, sizes and age. If you do not know the exact information, give your best estimate.
6. All regulated structures must be inspected by a certified asbestos inspector prior to renovation or demolition. Typically: "Certified asbestos inspector, with sample analysis by PLM." If other methods were used, explain.
7. All asbestos materials present in the building must be included here. Enter amounts (in ft², linear feet, or ft³) of material to be removed from or left in the building. For example, in the column "Nonfriable asbestos material to be removed," under subcolumn "CAT II" (on the "surface area" line) you might enter "5,200" and "transite" under the number. The inspection report, which must be attached to the notification, should reflect this information.
8. This line must be completed. Never enter a date that is not at least 10 working days after your postmark, unless you have been granted a waiver by the department. **Missouri law requires notifications to be submitted at least 10 working days in advance of the project start date.**
9. If applicable, enter the dates on which abatement will occur or has occurred.
10. Give a brief description of your demolition/renovation plans, including the scope of work to be performed and the methods used to perform the work. Use an additional page if necessary.
11. Describe how any asbestos-containing materials (ACM) involved will be removed prior to demolition/renovation. If ACM will be left in the building, then indicate precautions used to prevent ACM from being made friable. If all asbestos has been removed, "N/A."
12. Identify waste transporter.
13. Identify waste disposal site.
14. Complete this section only for ordered demolitions. Submit the order with the notification. For all others, "N/A."
15. Complete this section only for emergency renovation projects. For all other renovations, indicate "N/A."
16. Indicate what will be done in the event that friable asbestos or suspect materials are unexpectedly encountered.
17. For regulated asbestos abatement or demolition of an unsafe or damaged structure when a prior inspection has not been conducted, a person trained in the requirements of 40 CFR Part 61, Subpart M must be on site to supervise the asbestos abatement. In the event that no asbestos is present or has already been removed, mark "N/A."
18. Always sign and date this line. This form may be signed by the project owner or operator. The project approval letter will be mailed to the person who signs the notification form.

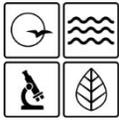
NOTE: For all regulated demolition and renovation projects, always include a complete copy of your asbestos inspection report with the notification form.

Send completed forms to:

Missouri Department of Natural Resources
APCP, Asbestos
PO Box 176
Jefferson City, MO 65102

If using priority mail, send to:

Missouri Department of Natural Resources
APCP, Asbestos
1659 E. Elm St.
Jefferson City, MO 65101



MISSOURI DEPARTMENT OF NATURAL RESOURCES
 AIR POLLUTION CONTROL PROGRAM
**ASBESTOS NESHAP NOTIFICATION OF DEMOLITION
 AND RENOVATION**

FOR OFFICE USE ONLY	
DATE RECEIVED	POSTMARK
CHECK DATE	CHECK NUMBER
CHECK AMOUNT	NOTIFICATION NUMBER

There is a \$100 review fee for this notification. Processing will be delayed if notification is received without payment.

1. TYPE OF NOTIFICATION

O – ORIGINAL C – CANCELLED R – REVISION, WRITE REVISION NUMBER _____

2. FACILITY INFORMATION (IDENTIFY OWNER, REMOVAL CONTRACTOR AND OTHER OPERATOR)

OWNER'S NAME		ADDRESS		
CITY	STATE	ZIP CODE	EMAIL	
CONTACT	TITLE		TELEPHONE NUMBER WITH AREA CODE	
ASBESTOS REMOVAL CONTRACTOR		ADDRESS		
CITY	STATE	ZIP CODE	EMAIL	
CONTACT	TITLE		TELEPHONE NUMBER WITH AREA CODE	
DEMOLITION CONTRACTOR		ADDRESS		
CITY	STATE	ZIP CODE	EMAIL	
CONTACT	TITLE		TELEPHONE NUMBER WITH AREA CODE	

3. TYPE OF OPERATION

D – DEMO O – ORDERED DEMO R – RENOVATION E – EMERGENCY RENOVATION

4. IS ASBESTOS PRESENT?

<input type="checkbox"/> YES <input type="checkbox"/> NO	LIST TYPE(S) OF ASBESTOS MATERIAL TO BE REMOVED
--	---

5. FACILITY DESCRIPTION

BUILDING NAME			
ADDRESS			
CITY	COUNTY	STATE	ZIP CODE
SITE LOCATION			
BUILDING SIZE	NUMBER OF FLOORS	AGE IN YEARS	
PRESENT USE		PRIOR USE	

6. PROCEDURE, INCLUDING ANALYTICAL METHOD, IF APPROPRIATE, USED TO DETECT THE PRESENCE OF ASBESTOS MATERIAL. INCLUDE A COPY OF THE ASBESTOS INSPECTION.

7. APPROXIMATE AMOUNT OF ASBESTOS, INCLUDING: A. REGULATED ACM (RACM) B. CATEGORY I ACM C. CATEGORY II ACM	RACM TO BE REMOVED	NONFRIABLE ASBESTOS MATERIAL TO BE REMOVED		NONFRIABLE ASBESTOS MATERIAL NOT TO BE REMOVED	
		CAT I	CAT II	CAT I	CAT II
PIPES (LINEAR FEET)					
SURFACE AREA (SQUARE FEET)					
VOL. RACM OFF FACILITY COMPONENT (CUBIC FEET)					

8. SCHEDULED DATES DEMO/RENOVATION (MM/DD/YY)				
START:		COMPLETION:		
9. SCHEDULED DATES ASBESTOS REMOVAL (MM/DD/YY)				
START:		COMPLETION:	WEEKDAY WORK HOURS	WEEKEND WORK HOURS
10. DESCRIPTION OF PLANNED DEMOLITION OR RENOVATION WORK AND METHOD(S) TO BE USED				
11. DESCRIPTION OF WORK PRACTICES AND ENGINEERING CONTROLS TO BE USED TO PREVENT EMISSIONS OF ASBESTOS AT THE DEMOLITION OR RENOVATION SITE.				
12. WASTE TRANSPORTER				
NAME		ADDRESS		
CITY		STATE	ZIP CODE	
CONTACT PERSON		TELEPHONE NUMBER WITH AREA CODE		
13. WASTE DISPOSAL SITE				
NAME				
LOCATION				
CITY		STATE	ZIP CODE	
TELEPHONE NUMBER WITH AREA CODE				
14. IF DEMOLITION ORDERED BY A GOVERNMENT AGENCY, IDENTIFY THE AGENCY BELOW.				
NAME		TITLE		
AGENCY				
DATE OF ORDER (MM/DD/YY) INCLUDE A COPY OF THE ORDER.		DATE ORDERED TO BEGIN (MM/DD/YY)		
15. FOR EMERGENCY RENOVATIONS				
DATE AND HOUR OF EMERGENCY				
DESCRIPTION OF THE SUDDEN, UNEXPECTED EVENT				
EXPLANATION OF HOW THE EVENT CAUSED UNSAFE CONDITIONS OR WOULD CAUSE EQUIPMENT DAMAGE OR AN UNREASONABLE FINANCIAL BURDEN				
16. DESCRIPTION OF PROCEDURES TO BE FOLLOWED IN THE EVENT THAT UNEXPECTED ASBESTOS IS FOUND OR PREVIOUSLY NONFRIABLE ASBESTOS MATERIAL BECOMES CRUMBLLED, PULVERIZED OR REDUCED TO POWDER.				
17. I CERTIFY THAT AN INDIVIDUAL TRAINED IN THE PROVISIONS OF THIS REGULATION (40 CFR PART 61, SUBPART M) WILL BE ON-SITE DURING THE DEMOLITION OR RENOVATION AND EVIDENCE THAT THE REQUIRED TRAINING HAS BEEN ACCOMPLISHED BY THIS PERSON WILL BE AVAILABLE FOR INSPECTION DURING NORMAL BUSINESS HOURS (REQUIRED 1 YEAR AFTER PROMULGATION).				
SIGNATURE OF OWNER/OPERATOR			DATE	
18. I CERTIFY THAT THE ABOVE INFORMATION IS CORRECT.				
SIGNATURE OF OWNER/OPERATOR			DATE	



SCI ENGINEERING, INC.

EARTH • SCIENCE • SOLUTIONS

GEOTECHNICAL
ENVIRONMENTAL
NATURAL RESOURCES
CULTURAL RESOURCES
CONSTRUCTION SERVICES

August 21, 2020

Mr. Steve Roth
City of Pacific
300 Hoven Drive
Pacific, Missouri 63069

RE: Asbestos Survey Activities
217 E. Orleans Street
Pacific, Missouri
SCI No. 2020-0510.20 Task 001

Dear Mr. Roth:

INTRODUCTION

SCI Engineering, Inc. (SCI) is pleased to submit this report of the analytical test results for samples of suspect asbestos-containing materials (ACMs) collected during the survey performed on July 31, 2020. The survey was conducted by Mr. Dan Vielweber, Missouri-Licensed Asbestos Inspector. A copy of Mr. Vielweber's asbestos inspector license is enclosed.

The purpose of this survey was to identify ACMs in accessible areas of the vacant residence addressed as 217 E. Orleans Street in Pacific, Missouri. This survey is intended to satisfy the requirements for the asbestos National Emission Standard for Hazardous Air Pollutant (NESHAP) for demolition and renovation as well as for Occupational Safety and Health Administration (OSHA) compliance.

The on-site structure is a 952-square-foot residence which was constructed in 1935. The exterior of the structure was vinyl and transite siding with vinyl windows and an asphalt shingle roof. The structure utilized a forced air HVAC system.

LIMITATIONS

SCI's asbestos survey entailed visually assessing accessible areas only. If any other suspect asbestos materials are discovered during demolition or renovation, please contact SCI, and we will make arrangements for assessment of these materials. Areas behind walls, under subfloors and above fixed ceilings are considered non-accessible.

During the course of performing the survey of the structure, SCI was able to access all locations within the structure.

ASBESTOS SURVEY

Ten samples were collected from the on-site structure. These samples were analyzed by Polarized Light Microscopy (PLM). Of the 10 samples analyzed, 1 was found to contain asbestos. Analytical test results

and chain-of-custody documentation are enclosed. The results of the analysis of all samples are summarized in Table 1.

Table 1 - Summary of Analytical Test Results

Sample Number	Material Location	Material Description	Approx. Quantity	Result	Category
217-001a	Throughout	Drywall System	--	None Detected in Drywall or Joint Compound	--
217-001b				None Detected in Drywall or Joint Compound	
217-001c				None Detected in Drywall or Joint Compound	
217-002a	Throughout	Cardboard Insulation (under -001)	--	None Detected	--
217-002b				None Detected	
217-002c				None Detected	
217-003a	Roof	Asphalt Shingles	1,150 sf	None Detected	--
217-003b				None Detected	
217-003c				None Detected	
214-004	Exterior	Transite Siding (under vinyl)	1,450 sf	25-30% Chrysotile	NCII

sf - square feet

NCI - Non-Friable Category I Material

NCII - Non-Friable Category II Material

DEMOLITION/RENOVATION

According to the Missouri Department of Natural Resources (MDNR), any friable or potentially friable ACM equal to or greater than 260 linear feet or 160 square feet is classified as a regulated ACM (RACM) and must be removed prior to demolition or renovation which would significantly damage the material.

The transite siding is a Category II non-friable material and according to the rule outlined above, is not, by definition, an RACM. However, it is the opinion of the MDNR that demolition activities will render this material friable and, therefore, it must be removed prior to demolition. If the transite is removed in an intact state, it may be removed by a contractor with asbestos awareness training. Otherwise, the material should be abated by a licensed abatement contractor.

The Occupational Safety & Health Administration also has regulations (29 CFR Parts 1910 et al, Occupational Exposure to Asbestos, August 10, 1994) regarding removal of asbestos-containing materials which must be followed.

REPORTING

Attached is Missouri Department of Natural Resources' (MDNR) Notification of Demolition and Renovation form, which has been filled out to the extent possible by SCI. The remaining information must be completed by you.

This report, as well as the completed EPA Notification of Demolition and Renovation form, must be submitted to the MDNR as follows:

- Ms. Stephanie Hamilton, MDNR, Air Pollution Control, PO Box 176, Jefferson City, MO, 65102 at asbestosnotifications@dnr.mo.gov.

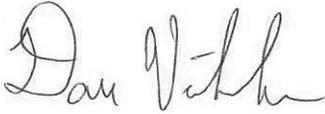
It should be noted that following submittal of the notification form, there is a ten-day waiting period before demolition, renovation, or abatement activities can begin.

If this report is to be used for bidding purposes for asbestos abatement, SCI recommends the contractor visit the site to verify all conditions and quantities.

SCI appreciates the opportunity to be of service to you on this project, and we look forward to working with you in the future. Please contact us if you have any questions or comments regarding the information provided.

Respectfully,

SCI ENGINEERING, INC.



Daniel P. Vielweber
Missouri State Certified Asbestos Inspector
Certificate Number 7118092019MOIR20150



Glen A. Grissom
Senior Specialist

DPV/GAG/rah

Enclosures

Asbestos NESHAP Notification of Demolition and Renovation
Analytical Test Results and Chain of Custody
Asbestos Inspector Certificate

CERTIFICATION NUMBER:

7011012720MOIR18366

THIS CERTIFIES

Travis S Clayton

HAS COMPLETED THE CERTIFICATION

REQUIREMENTS FOR

Inspector



APPROVED: **02/25/2020**

EXPIRES: **02/25/2021**

TRAINING DATE: **01/27/2020**

A handwritten signature in blue ink, appearing to read "James A. Byher".

Director of Air Pollution Control Program

CERTIFICATION NUMBER:

7118092019MOIR20150

THIS CERTIFIES

Daniel Vielweber

HAS COMPLETED THE CERTIFICATION

REQUIREMENTS FOR

Inspector



APPROVED: **09/27/2019**

TRAINING DATE: **09/20/2019**

EXPIRES: **09/27/2020**


Director of Air Pollution Control Program

The holder of this card is certified to conduct the specified occupation in conjunction with an asbestos abatement project under the certification requirements, in RSMo, 10 CSR 10-6.250.

It is unlawful for any person to use this card other than the individual to whom it is issued or in any manner inconsistent with the law.

Violations of Missouri State Rule 10 CSR 10-6.080, "Emission Standards for Hazardous Air Pollutants," which adopts by reference 40 CFR, Part 61, Subpart M, the "National Emission Standards for Asbestos," are subject to fines of not more than \$10,000 per day per violation. This Missouri State Certification is subject to review and the director may deny, suspend or revoke this certification per RSMo, chapter 643.230.

If found, please return to:



MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

Air Pollution Control Program
P.O. Box 176
Jefferson City, MO 65102
Phone: (573)751-4817 Fax: (573)751-2706
www.dnr.mo.gov/env/apcp



**PRECISION
ANALYSIS, INC.**
BULK SAMPLE ANALYSIS

Client: SCI Engineering, Inc.
Project No.: 2020-0510.20
Project Name: City of Pacific ACM Surveys

Date Received: 08-03-20

Date Reported: 08-04-20

**Technique: Polarized Light Microscopy with Dispersion Staining
In accordance with EPA/600/R-93/116 Test Method**

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
397052	217-1a Drywall	None Detected	Cellulose	Binders
397053	217-1b Drywall	None Detected	Cellulose	Binders
397054	217-1c Drywall	None Detected	Cellulose	Binders
397055	217-1a Joint Compound	None Detected		Binders, Paint, Mica
397056	217-1b Joint Compound	None Detected		Binders, Mica
397057	217-1c Joint Compound	None Detected		Binders, Mica
397058	217-2a	None Detected	Cellulose	Binders, Paint
397059	217-2b	None Detected	Cellulose	Binders, Paint
397060	217-2c	None Detected	Cellulose	Binders
397061	217-3a	None Detected	Glass Wool	Black Tar Binders, Aggregate
397062	217-3b	None Detected	Glass Wool	Black Tar Binders, Aggregate
397063	217-3c	None Detected	Glass Wool	Black Tar Binders, Aggregate

* The upper detection limit is 100 percent.
The lower detection limit is less than 1 percent.



**PRECISION
ANALYSIS, INC.**
BULK SAMPLE ANALYSIS

Client: SCI Engineering, Inc.
Project No.: 2020-0510.20
Project Name: City of Pacific ACM Surveys

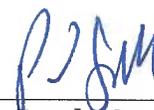
Date Received: 08-03-20

Date Reported: 08-04-20

**Technique: Polarized Light Microscopy with Dispersion Staining
In accordance with EPA/600/R-93/116 Test Method**

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
397064	217-4	25-30% Chrysotile	Antigorite	Binders, Paint, Aggregate

* The upper detection limit is 100 percent.
The lower detection limit is less than 1 percent.



Paul Spell
Laboratory Director

AIHA Bulk Asbestos Proficiency Analytical Testing Program ID # 101228
In Association with RTI Center for Measurements and Quality Assurance

PLM is not recommended for analysis of vinyl floor tile. Vinyl floor tile often contains milled asbestos with fiber lengths of 1 micrometer or less. Because these fibers are not detected by PLM, PLM analysis may yield a false negative result. We recommend qualitative analysis of vinyl floor tile by Transmission Electron Microscopy (TEM).

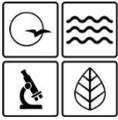
Precision Analysis assumes no responsibility for financial or health consequences for action or lack of action taken by our clients or their agents as a result of these analytical reports. Since Precision Analysis was not involved in the collection of these samples, we cannot attest to the proper collection of said samples and therefore are neither responsible nor liable for the accuracy, validity or completeness of the sample collection.



BULK ASBESTOS CHAIN OF CUSTODY

130 Point West Boulevard
St. Charles, Missouri 63301
636-949-8200 Fax 636-949-8269
www.sciengineering.com

Company: SCI Engineering, Inc.		Please Provide Results Via: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail			
Street: 130 Point West Boulevard		To: Glen Grissom			
City/State/Zip: St. Charles, Missouri 63301		Telephone #: 636-949-8200 Fax #: 636-949-8269			
Project Name: City of Pacific ACM Surveys		Email: ggrissom@sciengineering.com			
Project Number: 2020-0510.20					
Turnaround Time (TAT) Options - Please Check One					
<input type="checkbox"/> 3 Hour	<input type="checkbox"/> 6 Hour	<input type="checkbox"/> 24 Hour	<input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input checked="" type="checkbox"/> Other 5 Day		
PLM Bulk Analysis		TEM Bulk Analysis			
<input checked="" type="checkbox"/> PLM-EPA 600 <input type="checkbox"/> PLM-EPA 600 NOB <input type="checkbox"/> PLM-Point Count		<input type="checkbox"/> TEM EPA NOB - EPA 600/R-93/116 Section 2.5.5.1 <input type="checkbox"/> Chatfield Protocol (semi-quantitative)			
<input checked="" type="checkbox"/> Check Box for Stop Positive					
Comments: 217 E. Orleans St.					
Samplers Name: Dan Vielweber		Samplers Signature: <i>Dan Vielweber</i>	Date Sampled: 7-31-20		
Building Use/Description/Features: Residence			Age:		
Windows: Vinyl	Siding: Vinyil/Transite	Roof: Asphalt Shingle	HVAC: Forced Air		
Sample #	Material Location	Material Description	Approx. Quantity	Condition	Comments
217-001ABC	Throughout	Drywall Systems		Good	
217-002ABC	Throughout	Cardboard Ins.		Good	Under 1
217-003ABC	Roof	Asphalt Shingle		Good	
217-004	Exterior	Transite Siding		Good	Under Vinyl
Relinquished: <i>Dan Vielweber</i>	Date: 7-31-20	<div style="border: 2px solid blue; padding: 5px; display: inline-block;"> RECEIVED AUG 03 REC'D BY: 1 of 1 </div>	Time: 1545		
Received: <i>Dan Vielweber</i>	Date:		Time:		



ASBESTOS NESHAP NOTIFICATION OF DEMOLITION AND RENOVATION

GENERAL INSTRUCTIONS

NOTE: There is a \$100 review fee for this notification. Make checks payable to the department's Air Pollution Control Program or the appropriate local agency.

1. First-time notices = "Original." Amended projects = "Revision." Notice of cancellation = "Cancelled."
2. In the event that no asbestos removal was necessary, indicate "N/A" for asbestos removal contractor.
3. Indicate the type of project.
4. Mark the "YES" box if asbestos is present. In the next box, indicate what types of asbestos materials are present. Mark the "NO" box if no asbestos is present.
5. Failure to complete this section will result in an unapproved project. Include building uses, sizes and age. If you do not know the exact information, give your best estimate.
6. All regulated structures must be inspected by a certified asbestos inspector prior to renovation or demolition. Typically: "Certified asbestos inspector, with sample analysis by PLM." If other methods were used, explain.
7. All asbestos materials present in the building must be included here. Enter amounts (in ft², linear feet, or ft³) of material to be removed from or left in the building. For example, in the column "Nonfriable asbestos material to be removed," under subcolumn "CAT II" (on the "surface area" line) you might enter "5,200" and "transite" under the number. The inspection report, which must be attached to the notification, should reflect this information.
8. This line must be completed. Never enter a date that is not at least 10 working days after your postmark, unless you have been granted a waiver by the department. **Missouri law requires notifications to be submitted at least 10 working days in advance of the project start date.**
9. If applicable, enter the dates on which abatement will occur or has occurred.
10. Give a brief description of your demolition/renovation plans, including the scope of work to be performed and the methods used to perform the work. Use an additional page if necessary.
11. Describe how any asbestos-containing materials (ACM) involved will be removed prior to demolition/renovation. If ACM will be left in the building, then indicate precautions used to prevent ACM from being made friable. If all asbestos has been removed, "N/A."
12. Identify waste transporter.
13. Identify waste disposal site.
14. Complete this section only for ordered demolitions. Submit the order with the notification. For all others, "N/A."
15. Complete this section only for emergency renovation projects. For all other renovations, indicate "N/A."
16. Indicate what will be done in the event that friable asbestos or suspect materials are unexpectedly encountered.
17. For regulated asbestos abatement or demolition of an unsafe or damaged structure when a prior inspection has not been conducted, a person trained in the requirements of 40 CFR Part 61, Subpart M must be on site to supervise the asbestos abatement. In the event that no asbestos is present or has already been removed, mark "N/A."
18. Always sign and date this line. This form may be signed by the project owner or operator. The project approval letter will be mailed to the person who signs the notification form.

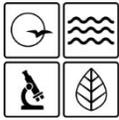
NOTE: For all regulated demolition and renovation projects, always include a complete copy of your asbestos inspection report with the notification form.

Send completed forms to:

Missouri Department of Natural Resources
APCP, Asbestos
PO Box 176
Jefferson City, MO 65102

If using priority mail, send to:

Missouri Department of Natural Resources
APCP, Asbestos
1659 E. Elm St.
Jefferson City, MO 65101



MISSOURI DEPARTMENT OF NATURAL RESOURCES
 AIR POLLUTION CONTROL PROGRAM
**ASBESTOS NESHAP NOTIFICATION OF DEMOLITION
 AND RENOVATION**

FOR OFFICE USE ONLY	
DATE RECEIVED	POSTMARK
CHECK DATE	CHECK NUMBER
CHECK AMOUNT	NOTIFICATION NUMBER

There is a \$100 review fee for this notification. Processing will be delayed if notification is received without payment.

1. TYPE OF NOTIFICATION

O – ORIGINAL C – CANCELLED R – REVISION, WRITE REVISION NUMBER _____

2. FACILITY INFORMATION (IDENTIFY OWNER, REMOVAL CONTRACTOR AND OTHER OPERATOR)

OWNER'S NAME		ADDRESS		
CITY	STATE	ZIP CODE	EMAIL	
CONTACT	TITLE		TELEPHONE NUMBER WITH AREA CODE	
ASBESTOS REMOVAL CONTRACTOR		ADDRESS		
CITY	STATE	ZIP CODE	EMAIL	
CONTACT	TITLE		TELEPHONE NUMBER WITH AREA CODE	
DEMOLITION CONTRACTOR		ADDRESS		
CITY	STATE	ZIP CODE	EMAIL	
CONTACT	TITLE		TELEPHONE NUMBER WITH AREA CODE	

3. TYPE OF OPERATION

D – DEMO O – ORDERED DEMO R – RENOVATION E – EMERGENCY RENOVATION

4. IS ASBESTOS PRESENT?

<input type="checkbox"/> YES <input type="checkbox"/> NO	LIST TYPE(S) OF ASBESTOS MATERIAL TO BE REMOVED
--	---

5. FACILITY DESCRIPTION

BUILDING NAME			
ADDRESS			
CITY	COUNTY	STATE	ZIP CODE
SITE LOCATION			
BUILDING SIZE	NUMBER OF FLOORS	AGE IN YEARS	
PRESENT USE		PRIOR USE	

6. PROCEDURE, INCLUDING ANALYTICAL METHOD, IF APPROPRIATE, USED TO DETECT THE PRESENCE OF ASBESTOS MATERIAL. INCLUDE A COPY OF THE ASBESTOS INSPECTION.

7. APPROXIMATE AMOUNT OF ASBESTOS, INCLUDING: A. REGULATED ACM (RACM) B. CATEGORY I ACM C. CATEGORY II ACM	RACM TO BE REMOVED	NONFRIABLE ASBESTOS MATERIAL TO BE REMOVED		NONFRIABLE ASBESTOS MATERIAL NOT TO BE REMOVED	
		CAT I	CAT II	CAT I	CAT II
PIPES (LINEAR FEET)					
SURFACE AREA (SQUARE FEET)					
VOL. RACM OFF FACILITY COMPONENT (CUBIC FEET)					

8. SCHEDULED DATES DEMO/RENOVATION (MM/DD/YY)			
START:		COMPLETION:	
9. SCHEDULED DATES ASBESTOS REMOVAL (MM/DD/YY)			
START:		COMPLETION:	WEEKDAY WORK HOURS
			WEEKEND WORK HOURS
10. DESCRIPTION OF PLANNED DEMOLITION OR RENOVATION WORK AND METHOD(S) TO BE USED			
11. DESCRIPTION OF WORK PRACTICES AND ENGINEERING CONTROLS TO BE USED TO PREVENT EMISSIONS OF ASBESTOS AT THE DEMOLITION OR RENOVATION SITE.			
12. WASTE TRANSPORTER			
NAME		ADDRESS	
CITY		STATE	ZIP CODE
CONTACT PERSON		TELEPHONE NUMBER WITH AREA CODE	
13. WASTE DISPOSAL SITE			
NAME			
LOCATION			
CITY		STATE	ZIP CODE
TELEPHONE NUMBER WITH AREA CODE			
14. IF DEMOLITION ORDERED BY A GOVERNMENT AGENCY, IDENTIFY THE AGENCY BELOW.			
NAME		TITLE	
AGENCY			
DATE OF ORDER (MM/DD/YY) INCLUDE A COPY OF THE ORDER.		DATE ORDERED TO BEGIN (MM/DD/YY)	
15. FOR EMERGENCY RENOVATIONS			
DATE AND HOUR OF EMERGENCY			
DESCRIPTION OF THE SUDDEN, UNEXPECTED EVENT			
EXPLANATION OF HOW THE EVENT CAUSED UNSAFE CONDITIONS OR WOULD CAUSE EQUIPMENT DAMAGE OR AN UNREASONABLE FINANCIAL BURDEN			
16. DESCRIPTION OF PROCEDURES TO BE FOLLOWED IN THE EVENT THAT UNEXPECTED ASBESTOS IS FOUND OR PREVIOUSLY NONFRIABLE ASBESTOS MATERIAL BECOMES CRUMBLLED, PULVERIZED OR REDUCED TO POWDER.			
17. I CERTIFY THAT AN INDIVIDUAL TRAINED IN THE PROVISIONS OF THIS REGULATION (40 CFR PART 61, SUBPART M) WILL BE ON-SITE DURING THE DEMOLITION OR RENOVATION AND EVIDENCE THAT THE REQUIRED TRAINING HAS BEEN ACCOMPLISHED BY THIS PERSON WILL BE AVAILABLE FOR INSPECTION DURING NORMAL BUSINESS HOURS (REQUIRED 1 YEAR AFTER PROMULGATION).			
SIGNATURE OF OWNER/OPERATOR			DATE
18. I CERTIFY THAT THE ABOVE INFORMATION IS CORRECT.			
SIGNATURE OF OWNER/OPERATOR			DATE



SCI ENGINEERING, INC.

EARTH • SCIENCE • SOLUTIONS

GEOTECHNICAL
ENVIRONMENTAL
NATURAL RESOURCES
CULTURAL RESOURCES
CONSTRUCTION SERVICES

August 21, 2020

Mr. Steve Roth
City of Pacific
300 Hoven Drive
Pacific, Missouri 63069

RE: Asbestos Survey Activities
220 E. Central Street
Pacific, Missouri
SCI No. 2020-0510.20 Task 006

Dear Mr. Roth:

INTRODUCTION

SCI Engineering, Inc. (SCI) is pleased to submit this report of the analytical test results for samples of suspect asbestos-containing materials (ACMs) collected during the survey performed on August 6, 2020. The survey was conducted by Mr. Dan Vielweber and Mr. Travis Clayton Missouri-Licensed Asbestos Inspectors. A copy of the asbestos inspector licenses is enclosed.

The purpose of this survey was to identify ACMs in accessible areas of the residence addressed as 220 E. Central Street in Pacific, Missouri. This survey is intended to satisfy the requirements for the asbestos National Emission Standard for Hazardous Air Pollutant (NESHAP) for demolition and renovation as well as for Occupational Safety and Health Administration (OSHA) compliance.

The on-site structure is an approximately 1,700-square-foot vacant, single-story residence with a detached shed which appeared to have been constructed in the 1960s. The exterior of the structure was vinyl over transite siding with wood and vinyl windows, and an asphalt shingle roof. The structure utilized a forced air HVAC system.

LIMITATIONS

SCI's asbestos survey entailed visually assessing accessible areas only. If any other suspect asbestos materials are discovered during demolition or renovation, please contact SCI, and we will make arrangements for assessment of these materials. Areas behind walls, under subfloors and above fixed ceilings are considered non-accessible.

During the course of performing the survey of the structure, SCI was able to access all locations within the structure.

ASBESTOS SURVEY

Thirty-four samples were collected from the on-site structure. These samples were analyzed by Polarized Light Microscopy (PLM). Of the 34 samples analyzed, one was found to contain asbestos. Analytical

test results and chain-of-custody documentation are enclosed. The results of the analysis of all samples are summarized in Table 1.

Table 1 - Summary of Analytical Test Results

Sample Number	Material Location	Material Description	Approx. Quantity	Result	Category
220-001a	Front Rooms	2' x 4' Worm Track/ Pinhole Ceiling Tile (lay-in)	--	None Detected	--
220-001b				None Detected	
220-001c				None Detected	
220-002a	Entry Room	1' x 1' Punch Pattern Ceiling Tile (nailed up)	--	None Detected	--
220-002b				None Detected	
220-002c				None Detected	
220-003a	Front Bedroom	1' x 1' Solid White Ceiling Tile (nailed up)	--	None Detected	--
220-003b				None Detected	
220-003c				None Detected	
220-004a	Kitchen	2' x 4' Solid Textured Ceiling Tile (lay-in)	--	None Detected	--
220-004b				None Detected	
220-004c				None Detected	
220-005a	Throughout	Drywall System	--	None Detected	--
220-005b				None Detected	
220-005c				None Detected	
220-006a	Rear Bedroom	Ceiling Texture	250 sf	None Detected	--
220-006b				None Detected	
220-006c				None Detected	
220-007a	Exterior	Tar Paper	2,370 sf	None Detected	--
220-007b				None Detected	
220-007c				None Detected	
220-008	Exterior	Transite Siding	2,370 sf	25-30% Chrysotile	NCII
220-009a	Roof	Green Asphalt Shingles (original roof)	2,125 sf	None Detected	--
220-009b				None Detected	
220-009c				None Detected	
220-010a	Exterior	Window Glaze	180 lf	None Detected	--
220-010b				None Detected	
220-010c				None Detected	
220-011a	Roof	Light Gray Asphalt Shingle	2,125 sf	None Detected	--
220-011b				None Detected	
220-011c				None Detected	

Sample Number	Material Location	Material Description	Approx. Quantity	Result	Category
220-012a	Roof Shed	Dark Gray Asphalt Shingle	200 sf	None Detected	--
220-012b				None Detected	
220-012c				None Detected	

sf - square feet

lf - linear feet

NCII - Non-Friable Category II Material

DEMOLITION/RENOVATION

According to the Missouri Department of Natural Resources (MDNR), any friable or potentially friable ACM equal to or greater than 260 linear feet or 160 square feet is classified as a regulated ACM (RACM) and must be removed prior to demolition or renovation which would significantly damage the material.

The transite siding is a Category II non-friable material and according to the rule outlined above, is not, by definition, an RACM. However, it is the opinion of the MDNR that demolition activities will render the siding friable and, therefore, this material must be removed prior to demolition. If the transite is removed in an intact state, it may be removed by a contractor with asbestos awareness training. Otherwise, the material should be abated by a licensed abatement contractor.

The Occupational Safety & Health Administration also has regulations (29 CFR Parts 1910 et al, Occupational Exposure to Asbestos, August 10, 1994) regarding removal of asbestos-containing materials which must be followed.

REPORTING

Attached is Missouri Department of Natural Resources' (MDNR) Notification of Demolition and Renovation form, which has been filled out to the extent possible by SCI. The remaining information must be completed by you.

This report, as well as the completed EPA Notification of Demolition and Renovation form, must be submitted to the MDNR as follows:

- Ms. Stephanie Hamilton, MDNR, Air Pollution Control, PO Box 176, Jefferson City, MO, 65102 at asbestosnotifications@dnr.mo.gov.

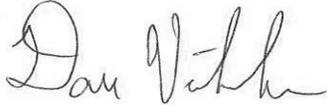
It should be noted that following submittal of the notification form, there is a ten-day waiting period before demolition, renovation, or abatement activities can begin.

If this report is to be used for bidding purposes for asbestos abatement, SCI recommends the contractor visit the site to verify all conditions and quantities.

SCI appreciates the opportunity to be of service to you on this project, and we look forward to working with you in the future. Please contact us if you have any questions or comments regarding the information provided.

Respectfully,

SCI ENGINEERING, INC.



Daniel P. Vielweber
Missouri State Certified Asbestos Inspector
Certificate Number 7118092019MOIR20150



Glen A. Grissom
Senior Specialist

DPV/GAG/rah

Enclosures

Asbestos NESHAP Notification of Demolition and Renovation
Analytical Test Results and Chain of Custody
Asbestos Inspector Certificate

CERTIFICATION NUMBER:

7011012720MOIR18366

THIS CERTIFIES

Travis S Clayton

HAS COMPLETED THE CERTIFICATION

REQUIREMENTS FOR

Inspector



APPROVED: **02/25/2020**

EXPIRES: **02/25/2021**

TRAINING DATE: **01/27/2020**

A handwritten signature in blue ink, appearing to read "James A. Byher".

Director of Air Pollution Control Program

CERTIFICATION NUMBER:

7118092019MOIR20150

THIS CERTIFIES

Daniel Vielweber

HAS COMPLETED THE CERTIFICATION

REQUIREMENTS FOR

Inspector



APPROVED: **09/27/2019**

TRAINING DATE: **09/20/2019**

EXPIRES: **09/27/2020**

Director of Air Pollution Control Program

The holder of this card is certified to conduct the specified occupation in conjunction with an asbestos abatement project under the certification requirements, in RSMo, 10 CSR 10-6.250.

It is unlawful for any person to use this card other than the individual to whom it is issued or in any manner inconsistent with the law.

Violations of Missouri State Rule 10 CSR 10-6.080, "Emission Standards for Hazardous Air Pollutants," which adopts by reference 40 CFR, Part 61, Subpart M, the "National Emission Standards for Asbestos," are subject to fines of not more than \$10,000 per day per violation. This Missouri State Certification is subject to review and the director may deny, suspend or revoke this certification per RSMo, chapter 643.230.

If found, please return to:



MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

Air Pollution Control Program

P.O. Box 176

Jefferson City, MO 65102

Phone: (573)751-4817 Fax: (573)751-2706

www.dnr.mo.gov/env/apcp



**PRECISION
ANALYSIS, INC.**
BULK SAMPLE ANALYSIS

Client: SCI Engineering, Inc.
Project No.: 2020-0510.20
Project Name: City of Pacific ACM Survey

Date Received: 08-10-20

Date Reported: 08-11-20

Technique: Polarized Light Microscopy with Dispersion Staining
In accordance with EPA/600/R-93/116 Test Method

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
397633	220-1a	None Detected	Cellulose, Glass Wool	Binders, Polyfoam, Paint
397634	220-1b	None Detected	Cellulose, Glass Wool	Binders, Polyfoam, Paint
397635	220-1c	None Detected	Cellulose, Glass Wool	Binders, Polyfoam, Paint
397636	220-2a	None Detected	Cellulose	Binders, Paint
397637	220-2b	None Detected	Cellulose	Binders, Paint
397638	220-2c	None Detected	Cellulose	Binders, Paint
397639	220-3a	None Detected	Cellulose	Binders, Paint
397640	220-3b	None Detected	Cellulose	Binders, Paint
397641	220-3c	None Detected	Cellulose	Binders, Paint
397642	220-4a	None Detected	Cellulose	Binders, Polyfoam, Paint
397643	220-4b	None Detected	Cellulose	Binders, Polyfoam, Paint
397644	220-4c	None Detected	Cellulose	Binders, Polyfoam, Paint
397645	220-5a	None Detected	Cellulose	Binders

* The upper detection limit is 100 percent.
The lower detection limit is less than 1 percent.



**PRECISION
ANALYSIS, INC.**
BULK SAMPLE ANALYSIS

Client: SCI Engineering, Inc.
Project No.: 2020-0510.20
Project Name: City of Pacific ACM Survey

Date Received: 08-10-20

Date Reported: 08-11-20

**Technique: Polarized Light Microscopy with Dispersion Staining
In accordance with EPA/600/R-93/116 Test Method**

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
397646	220-5b	None Detected	Cellulose	Binders
397647	220-5c	None Detected	Cellulose	Binders
	No Joint Compound			
397648	220-6a	None Detected		Binders, Paint, Mica
397649	220-6b	None Detected		Binders, Paint, Mica
397650	220-6c	None Detected		Binders, Paint, Mica
397651	220-7a	None Detected	Cellulose	Black Tar Binders
397652	220-7b	None Detected	Cellulose	Black Tar Binders
397653	220-7c	None Detected	Cellulose	Black Tar Binders
397654	220-8a	25-30% Chrysotile	Antigorite	Binders, Paint, Aggregate
397655	220-9a	None Detected	Cellulose, Glass Wool	Black Tar Binders, Aggregate
397656	220-9b	None Detected	Cellulose, Glass Wool	Black Tar Binders, Aggregate
397657	220-9c	None Detected	Cellulose, Glass Wool	Black Tar Binders, Aggregate

* The upper detection limit is 100 percent.
The lower detection limit is less than 1 percent.



**PRECISION
ANALYSIS, INC.**
BULK SAMPLE ANALYSIS

Client: SCI Engineering, Inc.
Project No.: 2020-0510.20
Project Name: City of Pacific ACM Survey

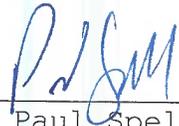
Date Received: 08-10-20

Date Reported: 08-11-20

**Technique: Polarized Light Microscopy with Dispersion Staining
In accordance with EPA/600/R-93/116 Test Method**

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
397658	220-10a	None Detected		Binders, Paint
397659	220-10b	None Detected		Binders, Paint
397660	220-10c	None Detected		Binders, Paint
397661	220-11a	None Detected	Cellulose	Black Tar Binders, Aggregate
397662	220-11b	None Detected	Cellulose	Black Tar Binders, Aggregate
397663	220-11c	None Detected	Cellulose	Black Tar Binders, Aggregate
397664	220-12a	None Detected	Glass Wool	Black Tar Binders, Aggregate
397665	220-12b	None Detected	Glass Wool	Black Tar Binders, Aggregate
397666	220-12c	None Detected	Glass Wool	Black Tar Binders, Aggregate

* The upper detection limit is 100 percent.
The lower detection limit is less than 1 percent.


 Paul Spell

Laboratory Director

AIHA Bulk Asbestos Proficiency Analytical Testing Program ID # 101228
In Association with RTI Center for Measurements and Quality Assurance

PLM is not recommended for analysis of vinyl floor tile. Vinyl floor tile often contains milled asbestos with fiber lengths of 1 micrometer or less. Because these fibers are not detected by PLM, PLM analysis may yield a false negative result. We recommend qualitative analysis of vinyl floor tile by Transmission Electron Microscopy (TEM).

Precision Analysis assumes no responsibility for financial or health consequences for action or lack of action taken by our clients or their agents as a result of these analytical reports. Since Precision Analysis was not involved in the collection of these samples, we cannot attest to the proper collection of said samples and therefore are neither responsible nor liable for the accuracy, validity or completeness of the sample collection.



BULK ASBESTOS CHAIN OF CUSTODY

130 Point West Boulevard
St. Charles, Missouri 63301
636-949-8200 Fax 636-949-8269
www.sciengineering.com

Company : SCI Engineering, Inc.	Please Provide Results Via: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail
Street: 130 Point West Boulevard	To: <i>Traavis Clayton</i>
City/State/Zip: St. Charles, Missouri 63301	Telephone #: <i>618-208-3049</i> Fax #: 636-949-8269
Project Name: <i>City of Pacific ACM Surveys</i>	Email: <i>tclayton@sciengineering.com</i>
Project Number: <i>2020-0510.20</i>	

Turnaround Time (TAT) Options - Please Check One

<input type="checkbox"/> 3 Hour	<input type="checkbox"/> 6 Hour	<input type="checkbox"/> 24 Hour	<input type="checkbox"/> 48 Hour	<input type="checkbox"/> 72 Hour	<input type="checkbox"/> 96 Hour	<input checked="" type="checkbox"/> Other <i>5-Day</i>
---------------------------------	---------------------------------	----------------------------------	----------------------------------	----------------------------------	----------------------------------	--

PLM Bulk Analysis <input checked="" type="checkbox"/> PLM-EPA 600 <input type="checkbox"/> PLM-EPA 600 NOB <input type="checkbox"/> PLM-Point Count	TEM Bulk Analysis <input type="checkbox"/> TEM EPA NOB - EPA 600/R-93/116 Section 2.5.5.1 <input type="checkbox"/> Chatfield Protocol (semi-quantitative)
---	--

Check Box for Stop Positive

Comments: *Address: 220 E. Central St.*

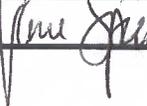
Samplers Name: *T. Clayton / D. Vichler* Samplers Signature:  Date Sampled: *8/16/2020*

Building Use/Description/Features: *Vacant Single-story residence w/ detached shed* Age: *~60 years* Size: *~1,700 sq ft*

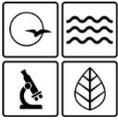
Windows: *Wood/Vinyl* Siding: *Vinyl over Transite* Roof: *Asphalt Shingle* Attic: *Fiber Glass* HVAC: *Forced Air*

Sample #	Material Location	Material Description	Approx. Quantity	Condition	Comments
<i>220-001 A,B,C</i>	<i>Front Porch</i>	<i>2'x4' w/1/4" CT</i>		<i>Good</i>	<i>Log-In</i>
<i>220-002 A,B,C</i>	<i>Entry Room</i>	<i>1'x1' Panel Pl. Main CT</i>		<i>Good</i>	<i>Nailed Up</i>
<i>220-003 A,B,C</i>	<i>Front Bedroom</i>	<i>1'x1' Solid White CT</i>		<i>Good</i>	<i>Nailed Up</i>
<i>220-004 A,B,C</i>	<i>Kitchen</i>	<i>2'x4' Solid Textured CT</i>		<i>Good</i>	<i>Log-In</i>
<i>220-005 A,B,C</i>	<i>Rear Bedroom Throughstair</i>	<i>Ceiling Textured ^{Original System}</i>	<i>250 sq ft</i>	<i>Good</i>	
<i>220-006 A,B,C</i>	<i>Rear Bedroom</i>	<i>Ceiling Textured</i>	<i>250 sq ft</i>	<i>Good</i>	
<i>220-007 A,B,C</i>	<i>Exterior</i>	<i>Tar Paper</i>	<i>2,370 sq ft</i>	<i>Good</i>	
<i>220-008</i>	<i>Exterior</i>	<i>Transite Siding</i>	<i>2,370 sq ft</i>	<i>Good</i>	
<i>220-009 A,B,C</i>	<i>Roof</i>	<i>Green Asphalt Shingles</i>	<i>3,125 sq ft</i>	<i>Good</i>	<i>Original Roof.</i>

Relinquished:  Date: *8/7/2020* Time: *1:00*

Received:  Date: _____ Time: _____

RECEIVED
 AUG 10 2020
 1 of 2
 BY: _____



ASBESTOS NESHAP NOTIFICATION OF DEMOLITION AND RENOVATION

GENERAL INSTRUCTIONS

NOTE: There is a \$100 review fee for this notification. Make checks payable to the department's Air Pollution Control Program or the appropriate local agency.

1. First-time notices = "Original." Amended projects = "Revision." Notice of cancellation = "Cancelled."
2. In the event that no asbestos removal was necessary, indicate "N/A" for asbestos removal contractor.
3. Indicate the type of project.
4. Mark the "YES" box if asbestos is present. In the next box, indicate what types of asbestos materials are present. Mark the "NO" box if no asbestos is present.
5. Failure to complete this section will result in an unapproved project. Include building uses, sizes and age. If you do not know the exact information, give your best estimate.
6. All regulated structures must be inspected by a certified asbestos inspector prior to renovation or demolition. Typically: "Certified asbestos inspector, with sample analysis by PLM." If other methods were used, explain.
7. All asbestos materials present in the building must be included here. Enter amounts (in ft², linear feet, or ft³) of material to be removed from or left in the building. For example, in the column "Nonfriable asbestos material to be removed," under subcolumn "CAT II" (on the "surface area" line) you might enter "5,200" and "transite" under the number. The inspection report, which must be attached to the notification, should reflect this information.
8. This line must be completed. Never enter a date that is not at least 10 working days after your postmark, unless you have been granted a waiver by the department. **Missouri law requires notifications to be submitted at least 10 working days in advance of the project start date.**
9. If applicable, enter the dates on which abatement will occur or has occurred.
10. Give a brief description of your demolition/renovation plans, including the scope of work to be performed and the methods used to perform the work. Use an additional page if necessary.
11. Describe how any asbestos-containing materials (ACM) involved will be removed prior to demolition/renovation. If ACM will be left in the building, then indicate precautions used to prevent ACM from being made friable. If all asbestos has been removed, "N/A."
12. Identify waste transporter.
13. Identify waste disposal site.
14. Complete this section only for ordered demolitions. Submit the order with the notification. For all others, "N/A."
15. Complete this section only for emergency renovation projects. For all other renovations, indicate "N/A."
16. Indicate what will be done in the event that friable asbestos or suspect materials are unexpectedly encountered.
17. For regulated asbestos abatement or demolition of an unsafe or damaged structure when a prior inspection has not been conducted, a person trained in the requirements of 40 CFR Part 61, Subpart M must be on site to supervise the asbestos abatement. In the event that no asbestos is present or has already been removed, mark "N/A."
18. Always sign and date this line. This form may be signed by the project owner or operator. The project approval letter will be mailed to the person who signs the notification form.

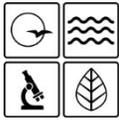
NOTE: For all regulated demolition and renovation projects, always include a complete copy of your asbestos inspection report with the notification form.

Send completed forms to:

Missouri Department of Natural Resources
APCP, Asbestos
PO Box 176
Jefferson City, MO 65102

If using priority mail, send to:

Missouri Department of Natural Resources
APCP, Asbestos
1659 E. Elm St.
Jefferson City, MO 65101



MISSOURI DEPARTMENT OF NATURAL RESOURCES
 AIR POLLUTION CONTROL PROGRAM
**ASBESTOS NESHAP NOTIFICATION OF DEMOLITION
 AND RENOVATION**

FOR OFFICE USE ONLY	
DATE RECEIVED	POSTMARK
CHECK DATE	CHECK NUMBER
CHECK AMOUNT	NOTIFICATION NUMBER

There is a \$100 review fee for this notification. Processing will be delayed if notification is received without payment.

1. TYPE OF NOTIFICATION

O – ORIGINAL C – CANCELLED R – REVISION, WRITE REVISION NUMBER _____

2. FACILITY INFORMATION (IDENTIFY OWNER, REMOVAL CONTRACTOR AND OTHER OPERATOR)

OWNER'S NAME		ADDRESS		
CITY	STATE	ZIP CODE	EMAIL	
CONTACT	TITLE		TELEPHONE NUMBER WITH AREA CODE	
ASBESTOS REMOVAL CONTRACTOR		ADDRESS		
CITY	STATE	ZIP CODE	EMAIL	
CONTACT	TITLE		TELEPHONE NUMBER WITH AREA CODE	
DEMOLITION CONTRACTOR		ADDRESS		
CITY	STATE	ZIP CODE	EMAIL	
CONTACT	TITLE		TELEPHONE NUMBER WITH AREA CODE	

3. TYPE OF OPERATION

D – DEMO O – ORDERED DEMO R – RENOVATION E – EMERGENCY RENOVATION

4. IS ASBESTOS PRESENT?

<input type="checkbox"/> YES <input type="checkbox"/> NO	LIST TYPE(S) OF ASBESTOS MATERIAL TO BE REMOVED
--	---

5. FACILITY DESCRIPTION

BUILDING NAME			
ADDRESS			
CITY	COUNTY	STATE	ZIP CODE
SITE LOCATION			
BUILDING SIZE	NUMBER OF FLOORS	AGE IN YEARS	
PRESENT USE		PRIOR USE	

6. PROCEDURE, INCLUDING ANALYTICAL METHOD, IF APPROPRIATE, USED TO DETECT THE PRESENCE OF ASBESTOS MATERIAL. INCLUDE A COPY OF THE ASBESTOS INSPECTION.

7. APPROXIMATE AMOUNT OF ASBESTOS, INCLUDING: A. REGULATED ACM (RACM) B. CATEGORY I ACM C. CATEGORY II ACM	RACM TO BE REMOVED	NONFRIABLE ASBESTOS MATERIAL TO BE REMOVED		NONFRIABLE ASBESTOS MATERIAL NOT TO BE REMOVED	
		CAT I	CAT II	CAT I	CAT II
PIPES (LINEAR FEET)					
SURFACE AREA (SQUARE FEET)					
VOL. RACM OFF FACILITY COMPONENT (CUBIC FEET)					

8. SCHEDULED DATES DEMO/RENOVATION (MM/DD/YY)				
START:		COMPLETION:		
9. SCHEDULED DATES ASBESTOS REMOVAL (MM/DD/YY)				
START:		COMPLETION:	WEEKDAY WORK HOURS	WEEKEND WORK HOURS
10. DESCRIPTION OF PLANNED DEMOLITION OR RENOVATION WORK AND METHOD(S) TO BE USED				
11. DESCRIPTION OF WORK PRACTICES AND ENGINEERING CONTROLS TO BE USED TO PREVENT EMISSIONS OF ASBESTOS AT THE DEMOLITION OR RENOVATION SITE.				
12. WASTE TRANSPORTER				
NAME		ADDRESS		
CITY		STATE	ZIP CODE	
CONTACT PERSON		TELEPHONE NUMBER WITH AREA CODE		
13. WASTE DISPOSAL SITE				
NAME				
LOCATION				
CITY		STATE	ZIP CODE	
TELEPHONE NUMBER WITH AREA CODE				
14. IF DEMOLITION ORDERED BY A GOVERNMENT AGENCY, IDENTIFY THE AGENCY BELOW.				
NAME		TITLE		
AGENCY				
DATE OF ORDER (MM/DD/YY) INCLUDE A COPY OF THE ORDER.		DATE ORDERED TO BEGIN (MM/DD/YY)		
15. FOR EMERGENCY RENOVATIONS				
DATE AND HOUR OF EMERGENCY				
DESCRIPTION OF THE SUDDEN, UNEXPECTED EVENT				
EXPLANATION OF HOW THE EVENT CAUSED UNSAFE CONDITIONS OR WOULD CAUSE EQUIPMENT DAMAGE OR AN UNREASONABLE FINANCIAL BURDEN				
16. DESCRIPTION OF PROCEDURES TO BE FOLLOWED IN THE EVENT THAT UNEXPECTED ASBESTOS IS FOUND OR PREVIOUSLY NONFRIABLE ASBESTOS MATERIAL BECOMES CRUMBLLED, PULVERIZED OR REDUCED TO POWDER.				
17. I CERTIFY THAT AN INDIVIDUAL TRAINED IN THE PROVISIONS OF THIS REGULATION (40 CFR PART 61, SUBPART M) WILL BE ON-SITE DURING THE DEMOLITION OR RENOVATION AND EVIDENCE THAT THE REQUIRED TRAINING HAS BEEN ACCOMPLISHED BY THIS PERSON WILL BE AVAILABLE FOR INSPECTION DURING NORMAL BUSINESS HOURS (REQUIRED 1 YEAR AFTER PROMULGATION).				
SIGNATURE OF OWNER/OPERATOR			DATE	
18. I CERTIFY THAT THE ABOVE INFORMATION IS CORRECT.				
SIGNATURE OF OWNER/OPERATOR			DATE	



SCI ENGINEERING, INC.

EARTH • SCIENCE • SOLUTIONS

GEOTECHNICAL
ENVIRONMENTAL
NATURAL RESOURCES
CULTURAL RESOURCES
CONSTRUCTION SERVICES

August 21, 2020

Mr. Steve Roth
City of Pacific
300 Hoven Drive
Pacific, Missouri 63069

RE: Asbestos Survey Activities
223 S. Columbus Street
Pacific, Missouri
SCI No. 2020-0510.20 Task 009

Dear Mr. Roth:

INTRODUCTION

SCI Engineering, Inc. (SCI) is pleased to submit this report of the analytical test results for samples of suspect asbestos-containing materials (ACMs) collected during the survey performed on August 6, 2020. The survey was conducted by Mr. Dan Vielweber and Mr. Travis Clayton, Missouri-Licensed Asbestos Inspectors. A copy of the asbestos inspector licenses is enclosed.

The purpose of this survey was to identify ACMs in accessible areas of the residence addressed as 526 S. 223 S. Columbus Street in Pacific, Missouri. This survey is intended to satisfy the requirements for the asbestos National Emission Standard for Hazardous Air Pollutant (NESHAP) for demolition and renovation as well as for Occupational Safety and Health Administration (OSHA) compliance.

The on-site structure is a 3,000-square-foot partial two-story residence with a detached garage and shed which appeared have been constructed in the 1800s with subsequent additions of unknown age. The exterior of the structure was brick masonry and vinyl siding with vinyl windows and an asphalt shingle/rolled asphalt roof. The structure utilized a forced air HVAC system.

LIMITATIONS

SCI's asbestos survey entailed visually assessing accessible areas only. If any other suspect asbestos materials are discovered during demolition or renovation, please contact SCI, and we will make arrangements for assessment of these materials. Areas behind walls, under subfloors and above fixed ceilings are considered non-accessible.

During the course of performing the survey of the structure, SCI was able to access all locations within the structure.

ASBESTOS SURVEY

Thirty samples were collected from the on-site structure. These samples were analyzed by Polarized Light Microscopy (PLM). Of the 30 samples analyzed, none were found to contain asbestos. Analytical

test results and chain-of-custody documentation are enclosed. The results of the analysis of all samples are summarized in Table 1.

Table 1 - Summary of Analytical Test Results

Sample Number	Material Location	Material Description	Approx. Quantity	Result	Category
223-001a	Kitchen,	Beige Sheet Flooring (on wood)	375 sf	None Detected in Flooring or Mastic	--
223-001b				None Detected in Flooring or Mastic	
223-001c				None Detected in Flooring or Mastic	
223-002a	Laundry/ Bedroom	Black 12"x12" Floor Tile (on wood)	430 sf	None Detected in Tile or Mastic	--
223-002b				None Detected in Tile or Mastic	
223-002c				None Detected in Tile or Mastic	
223-003	Walls/Ceilings Throughout	Drywall System	--	None Detected in Drywall or Joint Compound	--
223-003b				None Detected in Drywall or Joint Compound	
223-003C				None Detected in Drywall or Joint Compound	
223-004a	Ceilings, 1 st Floor	Ceiling Texture	2,000 sf	None Detected	--
223-004b				None Detected	
223-004c				None Detected	
223-005a	Original Walls	Plaster System	--	None Detected in Skim Coat or Plaster	--
223-005b				None Detected in Skim Coat or Plaster	
223-005c				None Detected in Skim Coat or Plaster	
223-006a	Exterior	White Door Caulk	18 lf	None Detected	--
223-006b				None Detected	
223-006c				None Detected	
223-007a	Exterior	Window Caulk	115 lf	None Detected	--
223-007b				None Detected	
223-007c				None Detected	
223-008a	Exterior, Garage	Window Glaze	50 lf	None Detected	--
223-008b				None Detected	
223-008c				None Detected	
223-009a	Roof	Asphalt Shingles	2,700 sf	None Detected	--
223-009b				None Detected	
526-009c				None Detected	
223-010a	Roof, Addition	Rolled Asphalt Roofing	700 sf	None Detected	--
223-010b				None Detected	
223-010c				None Detected	

sf - square feet

lf - linear feet

NCII - Non-Friable Category II Material

DEMOLITION/RENOVATION

According to the Missouri Department of Natural Resources (MDNR), any friable or potentially friable ACM equal to or greater than 260 linear feet or 160 square feet is classified as a regulated ACM (RACM) and must be removed prior to demolition or renovation which would significantly damage the material.

None of the materials sampled during the survey were identified as ACMs.

REPORTING

Attached is Missouri Department of Natural Resources' (MDNR) Notification of Demolition and Renovation form, which has been filled out to the extent possible by SCI. The remaining information must be completed by you.

This report, as well as the completed EPA Notification of Demolition and Renovation form, must be submitted to the MDNR as follows:

- Ms. Stephanie Hamilton, MDNR, Air Pollution Control, PO Box 176, Jefferson City, MO, 65102 at asbestosnotifications@dnr.mo.gov.

It should be noted that following submittal of the notification form, there is a ten-day waiting period before demolition, renovation, or abatement activities can begin.

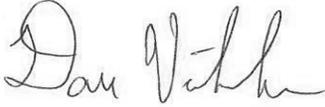
If this report is to be used for bidding purposes for asbestos abatement, SCI recommends the contractor visit the site to verify all conditions and quantities.

SCI appreciates the opportunity to be of service to you on this project, and we look forward to working with you in the future.

Please contact us if you have any questions or comments regarding the information provided.

Respectfully,

SCI ENGINEERING, INC.



Daniel P. Vielweber
Missouri State Certified Asbestos Inspector
Certificate Number 7118092019MOIR20150



Glen A. Grissom
Senior Specialist

DPV/GAG/rah

Enclosures

Asbestos NESHAP Notification of Demolition and Renovation
Analytical Test Results and Chain of Custody
Asbestos Inspector Certificate

CERTIFICATION NUMBER:

7011012720MOIR18366

THIS CERTIFIES

Travis S Clayton

HAS COMPLETED THE CERTIFICATION

REQUIREMENTS FOR

Inspector



APPROVED: **02/25/2020**

EXPIRES: **02/25/2021**

TRAINING DATE: **01/27/2020**

A handwritten signature in blue ink, appearing to read "James A. Byher".

Director of Air Pollution Control Program

CERTIFICATION NUMBER:

7118092019MOIR20150

THIS CERTIFIES

Daniel Vielweber

HAS COMPLETED THE CERTIFICATION

REQUIREMENTS FOR

Inspector



APPROVED: **09/27/2019**

TRAINING DATE: **09/20/2019**

EXPIRES: **09/27/2020**

Director of Air Pollution Control Program

The holder of this card is certified to conduct the specified occupation in conjunction with an asbestos abatement project under the certification requirements, in RSMo, 10 CSR 10-6.250.

It is unlawful for any person to use this card other than the individual to whom it is issued or in any manner inconsistent with the law.

Violations of Missouri State Rule 10 CSR 10-6.080, "Emission Standards for Hazardous Air Pollutants," which adopts by reference 40 CFR, Part 61, Subpart M, the "National Emission Standards for Asbestos," are subject to fines of not more than \$10,000 per day per violation. This Missouri State Certification is subject to review and the director may deny, suspend or revoke this certification per RSMo, chapter 643.230.

If found, please return to:



MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

Air Pollution Control Program

P.O. Box 176

Jefferson City, MO 65102

Phone: (573)751-4817 Fax: (573)751-2706

www.dnr.mo.gov/env/apcp



**PRECISION
ANALYSIS, INC.**
BULK SAMPLE ANALYSIS

Client: SCI Engineering, Inc.
Project No.: 2020-0510.20
Project Name: City of Pacific ACM Survey

Date Received: 08-10-20

Date Reported: 08-11-20

Technique: Polarized Light Microscopy with Dispersion Staining
In accordance with EPA/600/R-93/116 Test Method

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
397481	223-1a	None Detected	Glass Wool	Binders, Vinyl
		None Detected in Mastic		Binders
397482	223-1b	None Detected	Glass Wool	Binders, Vinyl
		None Detected in Mastic		Binders
397483	223-1c	None Detected	Glass Wool	Binders, Vinyl
		None Detected in Mastic		Binders
397484	223-2a	None Detected		Binders, Vinyl, Aggregate
		None Detected in Mastic		Binders
397485	223-2b	None Detected		Binders, Vinyl, Aggregate
		None Detected in Mastic		Binders
397486	223-2c	None Detected		Binders, Vinyl, Aggregate
		None Detected in Mastic		Binders
397487	223-3a Drywall System	None Detected	Cellulose, Glass Wool	Binders
397488	223-3b Drywall System	None Detected	Cellulose, Glass Wool	Binders

* The upper detection limit is 100 percent.
The lower detection limit is less than 1 percent.



PRECISION ANALYSIS, INC.

BULK SAMPLE ANALYSIS

Client: SCI Engineering, Inc.
 Project No.: 2020-0510.20
 Project Name: City of Pacific ACM Survey

Date Received: 08-10-20

Date Reported: 08-11-20

Technique: Polarized Light Microscopy with Dispersion Staining
In accordance with EPA/600/R-93/116 Test Method

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
397489	223-3c Drywall System	None Detected	Cellulose, Glass Wool	Binders
397490	223-3a Joint Compound	None Detected		Binders, Mica
397491	223-3b Joint Compound	None Detected		Binders, Mica
397492	223-3c Joint Compound	None Detected		Binders, Mica
397493	223-4a	None Detected		Binders, Polyfoam, Paint
397494	223-4b	None Detected		Binders, Polyfoam, Paint
397495	223-4c	None Detected		Binders, Polyfoam, Paint
397496	223-5a Skim Coat	None Detected	Cellulose	Binders, Paint, Aggregate
397497	223-5b Skim Coat	None Detected	Cellulose	Binders, Paint, Aggregate
397498	223-5c Skim Coat	None Detected	Cellulose	Binders, Paint, Aggregate
397499	223-5a Plaster	None Detected	Cellulose	Binders, Aggregate

* The upper detection limit is 100 percent.
 The lower detection limit is less than 1 percent.



PRECISION ANALYSIS, INC.

BULK SAMPLE ANALYSIS

Client: SCI Engineering, Inc.
 Project No.: 2020-0510.20
 Project Name: City of Pacific ACM Survey

Date Received: 08-10-20

Date Reported: 08-11-20

Technique: Polarized Light Microscopy with Dispersion Staining
In accordance with EPA/600/R-93/116 Test Method

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
397500	223-5b Plaster	None Detected	Cellulose	Binders, Aggregate
397501	223-5c Plaster	None Detected	Cellulose	Binders, Aggregate
397502	223-6a	None Detected		Binders, Paint
397503	223-6b	None Detected		Binders, Paint
397504	223-6c	None Detected		Binders, Paint
397505	223-7a	None Detected		Binders, Paint
397506	223-7b	None Detected		Binders, Paint
397507	223-7c	None Detected		Binders, Paint
397508	223-8a	None Detected		Binders, Paint
397509	223-8b	None Detected		Binders, Paint
397510	223-8c	None Detected		Binders, Paint
397511	223-9a	None Detected	Glass Wool	Black Tar Binders, Aggregate
397512	223-9b	None Detected	Glass Wool	Black Tar Binders, Aggregate
397513	223-9c	None Detected	Glass Wool	Black Tar Binders, Aggregate

* The upper detection limit is 100 percent.
 The lower detection limit is less than 1 percent.



PRECISION ANALYSIS, INC.

BULK SAMPLE ANALYSIS

Client: SCI Engineering, Inc.
Project No.: 2020-0510.20
Project Name: City of Pacific ACM Survey

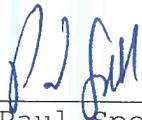
Date Received: 08-10-20

Date Reported: 08-11-20

**Technique: Polarized Light Microscopy with Dispersion Staining
In accordance with EPA/600/R-93/116 Test Method**

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
397514	223-10a	None Detected	Cellulose, Glass Wool	Black Tar Binders, Aggregate
397515	223-10b	None Detected	Cellulose, Glass Wool	Black Tar Binders, Aggregate
397516	223-10c	None Detected	Cellulose, Glass Wool	Black Tar Binders, Aggregate

* The upper detection limit is 100 percent.
The lower detection limit is less than 1 percent.

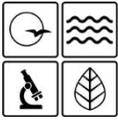

Paul Spell

Laboratory Director

AIHA Bulk Asbestos Proficiency Analytical Testing Program ID # 101228
In Association with RTI Center for Measurements and Quality Assurance

PLM is not recommended for analysis of vinyl floor tile. Vinyl floor tile often contains milled asbestos with fiber lengths of 1 micrometer or less. Because these fibers are not detected by PLM, PLM analysis may yield a false negative result. We recommend qualitative analysis of vinyl floor tile by Transmission Electron Microscopy (TEM).

Precision Analysis assumes no responsibility for financial or health consequences for action or lack of action taken by our clients or their agents as a result of these analytical reports. Since Precision Analysis was not involved in the collection of these samples, we cannot attest to the proper collection of said samples and therefore are neither responsible nor liable for the accuracy, validity or completeness of the sample collection.



ASBESTOS NESHAP NOTIFICATION OF DEMOLITION AND RENOVATION

GENERAL INSTRUCTIONS

NOTE: There is a \$100 review fee for this notification. Make checks payable to the department's Air Pollution Control Program or the appropriate local agency.

1. First-time notices = "Original." Amended projects = "Revision." Notice of cancellation = "Cancelled."
2. In the event that no asbestos removal was necessary, indicate "N/A" for asbestos removal contractor.
3. Indicate the type of project.
4. Mark the "YES" box if asbestos is present. In the next box, indicate what types of asbestos materials are present. Mark the "NO" box if no asbestos is present.
5. Failure to complete this section will result in an unapproved project. Include building uses, sizes and age. If you do not know the exact information, give your best estimate.
6. All regulated structures must be inspected by a certified asbestos inspector prior to renovation or demolition. Typically: "Certified asbestos inspector, with sample analysis by PLM." If other methods were used, explain.
7. All asbestos materials present in the building must be included here. Enter amounts (in ft², linear feet, or ft³) of material to be removed from or left in the building. For example, in the column "Nonfriable asbestos material to be removed," under subcolumn "CAT II" (on the "surface area" line) you might enter "5,200" and "transite" under the number. The inspection report, which must be attached to the notification, should reflect this information.
8. This line must be completed. Never enter a date that is not at least 10 working days after your postmark, unless you have been granted a waiver by the department. **Missouri law requires notifications to be submitted at least 10 working days in advance of the project start date.**
9. If applicable, enter the dates on which abatement will occur or has occurred.
10. Give a brief description of your demolition/renovation plans, including the scope of work to be performed and the methods used to perform the work. Use an additional page if necessary.
11. Describe how any asbestos-containing materials (ACM) involved will be removed prior to demolition/renovation. If ACM will be left in the building, then indicate precautions used to prevent ACM from being made friable. If all asbestos has been removed, "N/A."
12. Identify waste transporter.
13. Identify waste disposal site.
14. Complete this section only for ordered demolitions. Submit the order with the notification. For all others, "N/A."
15. Complete this section only for emergency renovation projects. For all other renovations, indicate "N/A."
16. Indicate what will be done in the event that friable asbestos or suspect materials are unexpectedly encountered.
17. For regulated asbestos abatement or demolition of an unsafe or damaged structure when a prior inspection has not been conducted, a person trained in the requirements of 40 CFR Part 61, Subpart M must be on site to supervise the asbestos abatement. In the event that no asbestos is present or has already been removed, mark "N/A."
18. Always sign and date this line. This form may be signed by the project owner or operator. The project approval letter will be mailed to the person who signs the notification form.

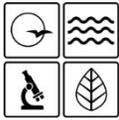
NOTE: For all regulated demolition and renovation projects, always include a complete copy of your asbestos inspection report with the notification form.

Send completed forms to:

Missouri Department of Natural Resources
APCP, Asbestos
PO Box 176
Jefferson City, MO 65102

If using priority mail, send to:

Missouri Department of Natural Resources
APCP, Asbestos
1659 E. Elm St.
Jefferson City, MO 65101



MISSOURI DEPARTMENT OF NATURAL RESOURCES
 AIR POLLUTION CONTROL PROGRAM
**ASBESTOS NESHAP NOTIFICATION OF DEMOLITION
 AND RENOVATION**

FOR OFFICE USE ONLY	
DATE RECEIVED	POSTMARK
CHECK DATE	CHECK NUMBER
CHECK AMOUNT	NOTIFICATION NUMBER

There is a \$100 review fee for this notification. Processing will be delayed if notification is received without payment.

1. TYPE OF NOTIFICATION

O – ORIGINAL C – CANCELLED R – REVISION, WRITE REVISION NUMBER _____

2. FACILITY INFORMATION (IDENTIFY OWNER, REMOVAL CONTRACTOR AND OTHER OPERATOR)

OWNER'S NAME		ADDRESS		
CITY	STATE	ZIP CODE	EMAIL	
CONTACT	TITLE		TELEPHONE NUMBER WITH AREA CODE	
ASBESTOS REMOVAL CONTRACTOR		ADDRESS		
CITY	STATE	ZIP CODE	EMAIL	
CONTACT	TITLE		TELEPHONE NUMBER WITH AREA CODE	
DEMOLITION CONTRACTOR		ADDRESS		
CITY	STATE	ZIP CODE	EMAIL	
CONTACT	TITLE		TELEPHONE NUMBER WITH AREA CODE	

3. TYPE OF OPERATION

D – DEMO O – ORDERED DEMO R – RENOVATION E – EMERGENCY RENOVATION

4. IS ASBESTOS PRESENT?

<input type="checkbox"/> YES <input type="checkbox"/> NO	LIST TYPE(S) OF ASBESTOS MATERIAL TO BE REMOVED
--	---

5. FACILITY DESCRIPTION

BUILDING NAME			
ADDRESS			
CITY	COUNTY	STATE	ZIP CODE
SITE LOCATION			
BUILDING SIZE	NUMBER OF FLOORS	AGE IN YEARS	
PRESENT USE		PRIOR USE	

6. PROCEDURE, INCLUDING ANALYTICAL METHOD, IF APPROPRIATE, USED TO DETECT THE PRESENCE OF ASBESTOS MATERIAL. INCLUDE A COPY OF THE ASBESTOS INSPECTION.

7. APPROXIMATE AMOUNT OF ASBESTOS, INCLUDING: A. REGULATED ACM (RACM) B. CATEGORY I ACM C. CATEGORY II ACM	RACM TO BE REMOVED	NONFRIABLE ASBESTOS MATERIAL TO BE REMOVED		NONFRIABLE ASBESTOS MATERIAL NOT TO BE REMOVED	
		CAT I	CAT II	CAT I	CAT II
PIPES (LINEAR FEET)					
SURFACE AREA (SQUARE FEET)					
VOL. RACM OFF FACILITY COMPONENT (CUBIC FEET)					

8. SCHEDULED DATES DEMO/RENOVATION (MM/DD/YY)			
START:		COMPLETION:	
9. SCHEDULED DATES ASBESTOS REMOVAL (MM/DD/YY)			
START:		COMPLETION:	WEEKDAY WORK HOURS
			WEEKEND WORK HOURS
10. DESCRIPTION OF PLANNED DEMOLITION OR RENOVATION WORK AND METHOD(S) TO BE USED			
11. DESCRIPTION OF WORK PRACTICES AND ENGINEERING CONTROLS TO BE USED TO PREVENT EMISSIONS OF ASBESTOS AT THE DEMOLITION OR RENOVATION SITE.			
12. WASTE TRANSPORTER			
NAME		ADDRESS	
CITY		STATE	ZIP CODE
CONTACT PERSON		TELEPHONE NUMBER WITH AREA CODE	
13. WASTE DISPOSAL SITE			
NAME			
LOCATION			
CITY		STATE	ZIP CODE
TELEPHONE NUMBER WITH AREA CODE			
14. IF DEMOLITION ORDERED BY A GOVERNMENT AGENCY, IDENTIFY THE AGENCY BELOW.			
NAME		TITLE	
AGENCY			
DATE OF ORDER (MM/DD/YY) INCLUDE A COPY OF THE ORDER.		DATE ORDERED TO BEGIN (MM/DD/YY)	
15. FOR EMERGENCY RENOVATIONS			
DATE AND HOUR OF EMERGENCY			
DESCRIPTION OF THE SUDDEN, UNEXPECTED EVENT			
EXPLANATION OF HOW THE EVENT CAUSED UNSAFE CONDITIONS OR WOULD CAUSE EQUIPMENT DAMAGE OR AN UNREASONABLE FINANCIAL BURDEN			
16. DESCRIPTION OF PROCEDURES TO BE FOLLOWED IN THE EVENT THAT UNEXPECTED ASBESTOS IS FOUND OR PREVIOUSLY NONFRIABLE ASBESTOS MATERIAL BECOMES CRUMBLLED, PULVERIZED OR REDUCED TO POWDER.			
17. I CERTIFY THAT AN INDIVIDUAL TRAINED IN THE PROVISIONS OF THIS REGULATION (40 CFR PART 61, SUBPART M) WILL BE ON-SITE DURING THE DEMOLITION OR RENOVATION AND EVIDENCE THAT THE REQUIRED TRAINING HAS BEEN ACCOMPLISHED BY THIS PERSON WILL BE AVAILABLE FOR INSPECTION DURING NORMAL BUSINESS HOURS (REQUIRED 1 YEAR AFTER PROMULGATION).			
SIGNATURE OF OWNER/OPERATOR			DATE
18. I CERTIFY THAT THE ABOVE INFORMATION IS CORRECT.			
SIGNATURE OF OWNER/OPERATOR			DATE



SCI ENGINEERING, INC.

EARTH • SCIENCE • SOLUTIONS

GEOTECHNICAL
ENVIRONMENTAL
NATURAL RESOURCES
CULTURAL RESOURCES
CONSTRUCTION SERVICES

August 21, 2020

Mr. Steve Roth
City of Pacific
300 Hoven Drive
Pacific, Missouri 63069

RE: Asbestos Survey Activities
225 E. Orleans Street
Pacific, Missouri
SCI No. 2020-0510.20 Task 007

Dear Mr. Roth:

INTRODUCTION

SCI Engineering, Inc. (SCI) is pleased to submit this report of the analytical test results for samples of suspect asbestos-containing materials (ACMs) collected during the survey performed on August 6, 2020. The survey was conducted by Mr. Dan Vielweber and Mr. Travis Clayton, Missouri-Licensed Asbestos Inspectors. A copy of the asbestos inspector licenses is enclosed.

The purpose of this survey was to identify ACMs in accessible areas of the residence addressed as 220 E. Orleans Street in Pacific, Missouri. This survey is intended to satisfy the requirements for the asbestos National Emission Standard for Hazardous Air Pollutant (NESHAP) for demolition and renovation. It is not intended to be used for Occupational Safety and Health Administration (OSHA) compliance.

The on-site structure is an approximately 1,300-square-foot single-story residence with a partial basement and attached garage which appeared to have been constructed in the 1960s. The exterior of the structure was vinyl over transite siding with wood and vinyl windows, and an asphalt shingle roof. The structure utilized a forced air HVAC system.

LIMITATIONS

SCI's asbestos survey entailed visually assessing accessible areas only. If any other suspect asbestos materials are discovered during demolition or renovation, please contact SCI, and we will make arrangements for assessment of these materials. Areas behind walls, under subfloors and above fixed ceilings are considered non-accessible.

During the course of performing the survey of the structure, SCI was able to access all locations within the structure.

ASBESTOS SURVEY

Thirty-two samples were collected from the on-site structure. Of these 32 samples, 30 were analyzed using a positive stop procedure. These samples were analyzed by Polarized Light Microscopy (PLM).

Of the 30 samples analyzed, nine were found to contain asbestos. Analytical test results and chain-of-custody documentation are enclosed. The results of the analysis of all samples are summarized in Table 1.

Table 1 - Summary of Analytical Test Results

Sample Number	Material Location	Material Description	Approx. Quantity	Result	Category
225-001a	Basement	9" x 9" Gray Floor Tile (patterned with 002, on concrete subfloor)	560 sf	5-10% Chrysotile in Floor Tile; None Detected in Mastic	NCI
225-001b				5-10% Chrysotile in Floor Tile; None Detected in Mastic	
225-001c				5-10% Chrysotile in Floor Tile; None Detected in Mastic	
225-002a	Basement	9" x 9" Red Floor Tile (on concrete subfloor)		5-10% Chrysotile in Floor Tile; None Detected in Mastic	NCI
225-002b				5-10% Chrysotile in Floor Tile; None Detected in Mastic	
225-002c				5-10% Chrysotile in Floor Tile; None Detected in Mastic	
225-003a	Basement and Some Original Walls	Plaster System	--	None Detected in Plaster or Skim Coat	--
225-003b				None Detected in Plaster or Skim Coat	
225-003c				None Detected in Plaster or Skim Coat	
225-004	Basement	Duct Tape	12 lf	85-90% Chrysotile	Friable
225-005a	Kitchen	1' x 1' White Ceiling Tile (nailed up)	300 sf	None Detected	--
225-005b				None Detected	
225-005c				None Detected	
225-006a	Bathroom	Sheet Flooring (on wood)	40 sf	None Detected in Flooring, Backing or Mastic	--
225-006b				None Detected in Flooring, Backing or Mastic	
225-006c				None Detected in Flooring, Backing or Mastic	
225-007a	Kitchen	Gray Floor Tile (under Vinyl Plank, on wood)	2,370 sf	None Detected in Floor Tile or Mastic	--
225-007b				None Detected in Floor Tile or Mastic	
225-007c				None Detected in Floor Tile or Mastic	
225-008a	Throughout, Walls/Ceilings	Drywall System	--	None Detected in Drywall or Joint Compound	--
225-008b				None Detected in Drywall or Joint Compound	
225-008c				None Detected in Drywall or Joint Compound	
225-009a	Garage Windows	Glaze	10 lf	None Detected	--

Sample Number	Material Location	Material Description	Approx. Quantity	Result	Category
225-009b				None Detected	
225-009c				None Detected	
225-010a	Basement Windows	Glaze	60 lf	5-10% Chrysotile	NCII
225-010b				Not Analyzed Due to Positive Stop	
225-010c				Not Analyzed Due to Positive Stop	
225-011a	Roof	Asphalt Shingle Roofing System	1,625 sf	None Detected	--
225-011b				None Detected	
225-011c				None Detected	
225-012	Exterior	Transite Siding	1,800 sf	25-30% Chrysotile	NCII

sf - square feet

lf - linear feet

NCII - Non-Friable Category II Material

DEMOLITION/RENOVATION

According to the Missouri Department of Natural Resources (MDNR), any friable or potentially friable ACM equal to or greater than 260 linear feet or 160 square feet is classified as a regulated ACM (RACM) and must be removed prior to demolition or renovation which would significantly damage the material.

The duct tape is a friable material and when considered in conjunction with other friable materials identified as part of this project, exceeds the minimum quantity requirements. This material, therefore, must be removed from the structure prior to demolition.

The transite siding is a Category II non-friable materials and according to the rule outlined above, is not, by definition, an RACM. However, it is the opinion of the MDNR that demolition activities will render the transite friable and, therefore, it must be removed prior to demolition. If the transite is removed in an intact state, it may be removed by a contractor with asbestos awareness training. Otherwise, the material should be abated by a licensed abatement contractor.

The 9-inch by 9-inch floor tiles are Category I non-friable materials and would not normally require removal. However, it is MDNR's opinion that demolition activities including ACM on a concrete floor slab such as breaking up the floor slab and tracking over ACM tile with heavy equipment will render it friable. Because the demolition activities will render the material friable, it must be removed prior to demolition.

The window glazing is a Category II non-friable materials and according to the rule outlined above, is not, by definition, an RACM. It is the opinion of the MDNR that demolition activities will not render the glazing friable and, therefore, it is not required to be removed prior to demolition.

The Occupational Safety & Health Administration also has regulations (29 CFR Parts 1910 et al, Occupational Exposure to Asbestos, August 10, 1994) regarding removal of asbestos-containing materials which must be followed.

REPORTING

Attached is Missouri Department of Natural Resources' (MDNR) Notification of Demolition and Renovation form, which has been filled out to the extent possible by SCI. The remaining information must be completed by you.

This report, as well as the completed EPA Notification of Demolition and Renovation form, must be submitted to the MDNR as follows:

- Ms. Stephanie Hamilton, MDNR, Air Pollution Control, PO Box 176, Jefferson City, MO, 65102 at asbestosnotifications@dnr.mo.gov.

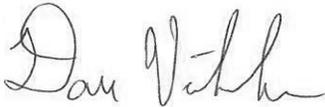
It should be noted that following submittal of the notification form, there is a ten-day waiting period before demolition, renovation, or abatement activities can begin.

If this report is to be used for bidding purposes for asbestos abatement, SCI recommends the contractor visit the site to verify all conditions and quantities.

SCI appreciates the opportunity to be of service to you on this project, and we look forward to working with you in the future. Please contact us if you have any questions or comments regarding the information provided.

Respectfully,

SCI ENGINEERING, INC.



Daniel P. Vielweber
Missouri State Certified Asbestos Inspector
Certificate Number 7118092019MOIR20150



Glen A. Grissom
Senior Specialist

DPV/GAG/rah

Enclosures

Asbestos NESHAP Notification of Demolition and Renovation
Analytical Test Results and Chain of Custody
Asbestos Inspector Certificate

CERTIFICATION NUMBER:

7011012720MOIR18366

THIS CERTIFIES

Travis S Clayton

HAS COMPLETED THE CERTIFICATION

REQUIREMENTS FOR

Inspector



APPROVED: **02/25/2020**

EXPIRES: **02/25/2021**

TRAINING DATE: **01/27/2020**

A handwritten signature in blue ink, which appears to read "James A. Byher".

Director of Air Pollution Control Program

CERTIFICATION NUMBER:

7118092019MOIR20150

THIS CERTIFIES

Daniel Vielweber

HAS COMPLETED THE CERTIFICATION

REQUIREMENTS FOR

Inspector



APPROVED: **09/27/2019**

TRAINING DATE: **09/20/2019**

EXPIRES: **09/27/2020**

Director of Air Pollution Control Program

The holder of this card is certified to conduct the specified occupation in conjunction with an asbestos abatement project under the certification requirements, in RSMo, 10 CSR 10-6.250.

It is unlawful for any person to use this card other than the individual to whom it is issued or in any manner inconsistent with the law.

Violations of Missouri State Rule 10 CSR 10-6.080, "Emission Standards for Hazardous Air Pollutants," which adopts by reference 40 CFR, Part 61, Subpart M, the "National Emission Standards for Asbestos," are subject to fines of not more than \$10,000 per day per violation. This Missouri State Certification is subject to review and the director may deny, suspend or revoke this certification per RSMo, chapter 643.230.

If found, please return to:



MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

Air Pollution Control Program

P.O. Box 176

Jefferson City, MO 65102

Phone: (573)751-4817 Fax: (573)751-2706

www.dnr.mo.gov/env/apcp



**PRECISION
ANALYSIS, INC.**
BULK SAMPLE ANALYSIS

Client: SCI Engineering, Inc.
Project No.: 2020-0510.20
Project Name: City of Pacific ACM Survey

Date Received: 08-10-20

Date Reported: 08-11-20

**Technique: Polarized Light Microscopy with Dispersion Staining
In accordance with EPA/600/R-93/116 Test Method**

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
397738	225-1a	5-10% Chrysotile	Antigorite	Binders, Vinyl, Aggregate
		None Detected in Mastic		Binders
397739	225-1b	5-10% Chrysotile	Antigorite	Binders, Vinyl, Aggregate
		None Detected in Mastic		Binders
397740	225-1c	5-10% Chrysotile	Antigorite	Binders, Vinyl, Aggregate
		None Detected in Mastic		Binders
397741	225-2a	5-10% Chrysotile	Antigorite	Binders, Vinyl, Aggregate
		None Detected in Mastic		Binders
397742	225-2b	5-10% Chrysotile	Antigorite	Binders, Vinyl, Aggregate
		None Detected in Mastic		Binders
397743	225-2c	5-10% Chrysotile	Antigorite	Binders, Vinyl, Aggregate
		None Detected in Mastic		Binders
397744	225-3a Skim Coat	None Detected		Binders, Paint, Aggregate

* The upper detection limit is 100 percent.
The lower detection limit is less than 1 percent.



PRECISION ANALYSIS, INC.

BULK SAMPLE ANALYSIS

Client: SCI Engineering, Inc.
 Project No.: 2020-0510.20
 Project Name: City of Pacific ACM Survey

Date Received: 08-10-20

Date Reported: 08-11-20

Technique: Polarized Light Microscopy with Dispersion Staining
In accordance with EPA/600/R-93/116 Test Method

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
397745	225-3b Skim Coat	None Detected		Binders, Paint, Aggregate
397746	225-3c Skim Coat	None Detected		Binders, Paint, Aggregate
397747	225-3a Plaster	None Detected	Horse Hair	Binders, Aggregate
397748	225-3b Plaster	None Detected	Horse Hair	Binders, Aggregate
397749	225-3c Plaster	None Detected	Horse Hair	Binders, Aggregate
397750	225-4	85-90% Chrysotile	Antigorite	Binders
397751	225-5a	None Detected	Cellulose	Binders, Paint
397752	225-5b	None Detected	Cellulose	Binders, Paint
397753	225-5c	None Detected	Cellulose	Binders, Paint
397754	225-6a	None Detected		Binders, Vinyl
	Backing	None Detected	Cellulose	Binders
		None Detected in Mastic		Binders

* The upper detection limit is 100 percent.
 The lower detection limit is less than 1 percent.



**PRECISION
ANALYSIS, INC.**
BULK SAMPLE ANALYSIS

Client: SCI Engineering, Inc.
Project No.: 2020-0510.20
Project Name: City of Pacific ACM Survey

Date Received: 08-10-20

Date Reported: 08-11-20

Technique: Polarized Light Microscopy with Dispersion Staining
In accordance with EPA/600/R-93/116 Test Method

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
397755	225-6b	None Detected		Binders, Vinyl
	Backing	None Detected	Cellulose	Binders
		None Detected in Mastic		Binders
397756	225-6c	None Detected		Binders, Vinyl
	Backing	None Detected	Cellulose	Binders
		None Detected in Mastic		Binders
397757	225-7a	None Detected		Binders, Vinyl, Aggregate
		None Detected in Mastic		Black Tar Binders
397758	225-7b	None Detected		Binders, Vinyl, Aggregate
		None Detected in Mastic		Black Tar Binders
397759	225-7c	None Detected		Binders, Vinyl, Aggregate
		None Detected in Mastic		Black Tar Binders
397760	225-8a Drywall	None Detected		Binders, Polyfoam
397761	225-8b Drywall	None Detected		Binders, Polyfoam

* The upper detection limit is 100 percent.
The lower detection limit is less than 1 percent.



PRECISION ANALYSIS, INC.

BULK SAMPLE ANALYSIS

Client: SCI Engineering, Inc.
 Project No.: 2020-0510.20
 Project Name: City of Pacific ACM Survey

Date Received: 08-10-20

Date Reported: 08-11-20

Technique: Polarized Light Microscopy with Dispersion Staining
In accordance with EPA/600/R-93/116 Test Method

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
397762	225-8c Drywall	None Detected		Binders, Polyfoam
397763	225-8a Joint Compound	None Detected		Binders, Paint, Mica
397764	225-8b Joint Compound	None Detected		Binders, Paint, Mica
397765	225-8c Joint Compound	None Detected		Binders, Paint, Mica
397766	225-9a	None Detected		Binders, Paint
397767	225-9b	None Detected		Binders, Paint
397768	225-9c	None Detected		Binders, Paint
397769	225-10a	5-10% Chrysotile		Binders, Paint
397770	225-11a	None Detected	Cellulose, Glass Wool	Black Tar Binders, Aggregate
397771	225-11b	None Detected	Cellulose, Glass Wool	Black Tar Binders, Aggregate
397772	225-11c	None Detected	Cellulose, Glass Wool	Black Tar Binders, Aggregate

* The upper detection limit is 100 percent.
 The lower detection limit is less than 1 percent.



PRECISION ANALYSIS, INC.

BULK SAMPLE ANALYSIS

Client: SCI Engineering, Inc.
 Project No.: 2020-0510.20
 Project Name: City of Pacific ACM Survey

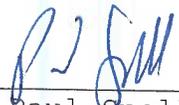
Date Received: 08-10-20

Date Reported: 08-11-20

Technique: Polarized Light Microscopy with Dispersion Staining
In accordance with EPA/600/R-93/116 Test Method

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
397773	225-12	25-30% Chrysotile	Antigorite	Binders, Paint, Aggregate

* The upper detection limit is 100 percent.
 The lower detection limit is less than 1 percent.


 Paul Spell

Laboratory Director

AIHA Bulk Asbestos Proficiency Analytical Testing Program ID # 101228
 In Association with RTI Center for Measurements and Quality Assurance

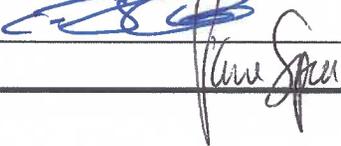
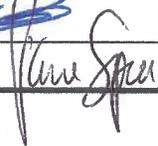
PLM is not recommended for analysis of vinyl floor tile. Vinyl floor tile often contains milled asbestos with fiber lengths of 1 micrometer or less. Because these fibers are not detected by PLM, PLM analysis may yield a false negative result. We recommend qualitative analysis of vinyl floor tile by Transmission Electron Microscopy (TEM).

Precision Analysis assumes no responsibility for financial or health consequences for action or lack of action taken by our clients or their agents as a result of these analytical reports. Since Precision Analysis was not involved in the collection of these samples, we cannot attest to the proper collection of said samples and therefore are neither responsible nor liable for the accuracy, validity or completeness of the sample collection.

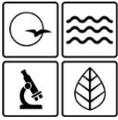


BULK ASBESTOS CHAIN OF CUSTODY

130 Point West Boulevard
St. Charles, Missouri 63301
636-949-8200 Fax 636-949-8269
www.sciengineering.com

Company : SCI Engineering, Inc.		Please Provide Results Via: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail			
Street: 130 Point West Boulevard		To: <u>Tress Clayton</u>			
City/State/Zip: St. Charles, Missouri 63301		Telephone #: <u>618 206 3049</u> Fax #: 636-949-8269			
Project Name: <u>City of Pacific Aem Savings</u>		Email: <u>tclayton@sciengineering.com</u>			
Project Number: <u>2020-0510.4</u>					
Turnaround Time (TAT) Options - Please Check One					
<input type="checkbox"/> 3 Hour	<input type="checkbox"/> 6 Hour	<input type="checkbox"/> 24 Hour	<input type="checkbox"/> 48 Hour		
<input type="checkbox"/> 72 Hour	<input type="checkbox"/> 96 Hour	<input checked="" type="checkbox"/> Other <u>5-Days</u>			
PLM Bulk Analysis		TEM Bulk Analysis			
<input checked="" type="checkbox"/> PLM-EPA 600 <input type="checkbox"/> PLM-EPA 600 NOB <input type="checkbox"/> PLM-Point Count		<input type="checkbox"/> TEM EPA NOB - EPA 600/R-93/116 Section 2.5.5.1 <input type="checkbox"/> Chatfield Protocol (semi-quantitative)			
<input checked="" type="checkbox"/> Check Box for Stop Positive					
Comments: <u>Address: 225 E. Orleans St.</u>					
Samplers Name: <u>T. Clayton / D. Voelcker</u>		Samplers Signature: 	Date Sampled: <u>8/6/2020</u>		
Building Use/Description/Features: <u>Vacant Residence; Single-story w/ Partial basement, Attached Garage</u>		Age: <u>~60 years</u>	Size: <u>~1,300 sq</u>		
Windows: <u>Vinyl/Wood</u>	Siding: <u>Vinyl Over Transite</u>	Roof: <u>Asphalt Shingle</u>	Attic: <u>Floor Glass</u>		
HVAC: <u>Forced Air</u>					
Sample #	Material Location	Material Description	Approx. Quantity	Condition	Comments
<u>225-001A,B,C</u>	<u>Basement</u>	<u>Gray 9"x9" FT</u>	<u>300 sq</u>	<u>Good</u>	<u>Patterned w/-002</u>
<u>225-002A,B,C</u>	<u>Basement</u>	<u>Red 9"x9" FT</u>	<u>300 sq</u>	<u>Good</u>	<u>On Concrete</u>
<u>225-003A,B,C</u>	<u>Basement + Some Original Walls</u>	<u>Plaster System</u>	<u>-</u>	<u>Good</u>	
<u>225-004</u>	<u>Basement</u>	<u>Duct Tape</u>	<u>12 LF</u>	<u>Good</u>	
<u>225-005A,B,C</u>	<u>Kitchen</u>	<u>1'x1' White Ceiling Tile</u>	<u>300 sq</u>	<u>Good</u>	<u>Nailed Up</u>
<u>225-006A,B,C</u>	<u>Bathroom</u>	<u>Sheet Flooring</u>	<u>40 sq</u>	<u>Good</u>	<u>On wood</u>
<u>225-007A,B,C</u>	<u>Kitchen</u>	<u>Gray Floor Tile</u>	<u>500 sq</u>	<u>Good</u>	<u>Under LVP, on wood</u>
<u>225-008A,B,C</u>	<u>Throughout, Walls/Ceilings</u>	<u>Drywall System</u>	<u>-</u>	<u>Good</u>	
<u>225-009 A,B,C</u>	<u>Garage Windows</u>	<u>Glaze</u>	<u>10 LF</u>	<u>Good</u>	
Relinquished: 		Date: <u>8/7/2020</u>	Time: <u>1:50</u>		
Received: 		Date:	Time:		

RECEIVED
AUG 10 REC'D
1 of 2
BY: _____



ASBESTOS NESHAP NOTIFICATION OF DEMOLITION AND RENOVATION

GENERAL INSTRUCTIONS

NOTE: There is a \$100 review fee for this notification. Make checks payable to the department's Air Pollution Control Program or the appropriate local agency.

1. First-time notices = "Original." Amended projects = "Revision." Notice of cancellation = "Cancelled."
2. In the event that no asbestos removal was necessary, indicate "N/A" for asbestos removal contractor.
3. Indicate the type of project.
4. Mark the "YES" box if asbestos is present. In the next box, indicate what types of asbestos materials are present. Mark the "NO" box if no asbestos is present.
5. Failure to complete this section will result in an unapproved project. Include building uses, sizes and age. If you do not know the exact information, give your best estimate.
6. All regulated structures must be inspected by a certified asbestos inspector prior to renovation or demolition. Typically: "Certified asbestos inspector, with sample analysis by PLM." If other methods were used, explain.
7. All asbestos materials present in the building must be included here. Enter amounts (in ft², linear feet, or ft³) of material to be removed from or left in the building. For example, in the column "Nonfriable asbestos material to be removed," under subcolumn "CAT II" (on the "surface area" line) you might enter "5,200" and "transite" under the number. The inspection report, which must be attached to the notification, should reflect this information.
8. This line must be completed. Never enter a date that is not at least 10 working days after your postmark, unless you have been granted a waiver by the department. **Missouri law requires notifications to be submitted at least 10 working days in advance of the project start date.**
9. If applicable, enter the dates on which abatement will occur or has occurred.
10. Give a brief description of your demolition/renovation plans, including the scope of work to be performed and the methods used to perform the work. Use an additional page if necessary.
11. Describe how any asbestos-containing materials (ACM) involved will be removed prior to demolition/renovation. If ACM will be left in the building, then indicate precautions used to prevent ACM from being made friable. If all asbestos has been removed, "N/A."
12. Identify waste transporter.
13. Identify waste disposal site.
14. Complete this section only for ordered demolitions. Submit the order with the notification. For all others, "N/A."
15. Complete this section only for emergency renovation projects. For all other renovations, indicate "N/A."
16. Indicate what will be done in the event that friable asbestos or suspect materials are unexpectedly encountered.
17. For regulated asbestos abatement or demolition of an unsafe or damaged structure when a prior inspection has not been conducted, a person trained in the requirements of 40 CFR Part 61, Subpart M must be on site to supervise the asbestos abatement. In the event that no asbestos is present or has already been removed, mark "N/A."
18. Always sign and date this line. This form may be signed by the project owner or operator. The project approval letter will be mailed to the person who signs the notification form.

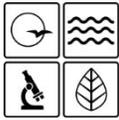
NOTE: For all regulated demolition and renovation projects, always include a complete copy of your asbestos inspection report with the notification form.

Send completed forms to:

Missouri Department of Natural Resources
APCP, Asbestos
PO Box 176
Jefferson City, MO 65102

If using priority mail, send to:

Missouri Department of Natural Resources
APCP, Asbestos
1659 E. Elm St.
Jefferson City, MO 65101



MISSOURI DEPARTMENT OF NATURAL RESOURCES
 AIR POLLUTION CONTROL PROGRAM
**ASBESTOS NESHAP NOTIFICATION OF DEMOLITION
 AND RENOVATION**

FOR OFFICE USE ONLY	
DATE RECEIVED	POSTMARK
CHECK DATE	CHECK NUMBER
CHECK AMOUNT	NOTIFICATION NUMBER

There is a \$100 review fee for this notification. Processing will be delayed if notification is received without payment.

1. TYPE OF NOTIFICATION

O – ORIGINAL C – CANCELLED R – REVISION, WRITE REVISION NUMBER _____

2. FACILITY INFORMATION (IDENTIFY OWNER, REMOVAL CONTRACTOR AND OTHER OPERATOR)

OWNER'S NAME		ADDRESS		
CITY	STATE	ZIP CODE	EMAIL	
CONTACT	TITLE		TELEPHONE NUMBER WITH AREA CODE	
ASBESTOS REMOVAL CONTRACTOR		ADDRESS		
CITY	STATE	ZIP CODE	EMAIL	
CONTACT	TITLE		TELEPHONE NUMBER WITH AREA CODE	
DEMOLITION CONTRACTOR		ADDRESS		
CITY	STATE	ZIP CODE	EMAIL	
CONTACT	TITLE		TELEPHONE NUMBER WITH AREA CODE	

3. TYPE OF OPERATION

D – DEMO O – ORDERED DEMO R – RENOVATION E – EMERGENCY RENOVATION

4. IS ASBESTOS PRESENT?

<input type="checkbox"/> YES <input type="checkbox"/> NO	LIST TYPE(S) OF ASBESTOS MATERIAL TO BE REMOVED
--	---

5. FACILITY DESCRIPTION

BUILDING NAME			
ADDRESS			
CITY	COUNTY	STATE	ZIP CODE
SITE LOCATION			
BUILDING SIZE	NUMBER OF FLOORS	AGE IN YEARS	
PRESENT USE	PRIOR USE		

6. PROCEDURE, INCLUDING ANALYTICAL METHOD, IF APPROPRIATE, USED TO DETECT THE PRESENCE OF ASBESTOS MATERIAL. INCLUDE A COPY OF THE ASBESTOS INSPECTION.

7. APPROXIMATE AMOUNT OF ASBESTOS, INCLUDING: A. REGULATED ACM (RACM) B. CATEGORY I ACM C. CATEGORY II ACM	RACM TO BE REMOVED	NONFRIABLE ASBESTOS MATERIAL TO BE REMOVED		NONFRIABLE ASBESTOS MATERIAL NOT TO BE REMOVED	
		CAT I	CAT II	CAT I	CAT II
PIPES (LINEAR FEET)					
SURFACE AREA (SQUARE FEET)					
VOL. RACM OFF FACILITY COMPONENT (CUBIC FEET)					

8. SCHEDULED DATES DEMO/RENOVATION (MM/DD/YY)			
START:		COMPLETION:	
9. SCHEDULED DATES ASBESTOS REMOVAL (MM/DD/YY)			
START:		COMPLETION:	WEEKDAY WORK HOURS
			WEEKEND WORK HOURS
10. DESCRIPTION OF PLANNED DEMOLITION OR RENOVATION WORK AND METHOD(S) TO BE USED			
11. DESCRIPTION OF WORK PRACTICES AND ENGINEERING CONTROLS TO BE USED TO PREVENT EMISSIONS OF ASBESTOS AT THE DEMOLITION OR RENOVATION SITE.			
12. WASTE TRANSPORTER			
NAME		ADDRESS	
CITY		STATE	ZIP CODE
CONTACT PERSON		TELEPHONE NUMBER WITH AREA CODE	
13. WASTE DISPOSAL SITE			
NAME			
LOCATION			
CITY		STATE	ZIP CODE
TELEPHONE NUMBER WITH AREA CODE			
14. IF DEMOLITION ORDERED BY A GOVERNMENT AGENCY, IDENTIFY THE AGENCY BELOW.			
NAME		TITLE	
AGENCY			
DATE OF ORDER (MM/DD/YY) INCLUDE A COPY OF THE ORDER.		DATE ORDERED TO BEGIN (MM/DD/YY)	
15. FOR EMERGENCY RENOVATIONS			
DATE AND HOUR OF EMERGENCY			
DESCRIPTION OF THE SUDDEN, UNEXPECTED EVENT			
EXPLANATION OF HOW THE EVENT CAUSED UNSAFE CONDITIONS OR WOULD CAUSE EQUIPMENT DAMAGE OR AN UNREASONABLE FINANCIAL BURDEN			
16. DESCRIPTION OF PROCEDURES TO BE FOLLOWED IN THE EVENT THAT UNEXPECTED ASBESTOS IS FOUND OR PREVIOUSLY NONFRIABLE ASBESTOS MATERIAL BECOMES CRUMBLLED, PULVERIZED OR REDUCED TO POWDER.			
17. I CERTIFY THAT AN INDIVIDUAL TRAINED IN THE PROVISIONS OF THIS REGULATION (40 CFR PART 61, SUBPART M) WILL BE ON-SITE DURING THE DEMOLITION OR RENOVATION AND EVIDENCE THAT THE REQUIRED TRAINING HAS BEEN ACCOMPLISHED BY THIS PERSON WILL BE AVAILABLE FOR INSPECTION DURING NORMAL BUSINESS HOURS (REQUIRED 1 YEAR AFTER PROMULGATION).			
SIGNATURE OF OWNER/OPERATOR			DATE
18. I CERTIFY THAT THE ABOVE INFORMATION IS CORRECT.			
SIGNATURE OF OWNER/OPERATOR			DATE



SCI ENGINEERING, INC.

EARTH • SCIENCE • SOLUTIONS

GEOTECHNICAL
ENVIRONMENTAL
NATURAL RESOURCES
CULTURAL RESOURCES
CONSTRUCTION SERVICES

August 21, 2020

Mr. Steve Roth
City of Pacific
300 Hoven Drive
Pacific, Missouri 63069

RE: Asbestos Survey Activities
302 S. Elm
Pacific, Missouri
SCI No. 2020-0510.20 Task 008

Dear Mr. Roth:

INTRODUCTION

SCI Engineering, Inc. (SCI) is pleased to submit this report of the analytical test results for samples of suspect asbestos-containing materials (ACMs) collected during the survey performed on August 6, 2020. The survey was conducted by Mr. Dan Vielweber and Mr. Travis Clayton, Missouri-Licensed Asbestos Inspectors. A copy of the asbestos inspector licenses is enclosed.

The purpose of this survey was to identify ACMs in accessible areas of the vacant residence addressed as 320 S. Elm in Pacific, Missouri. This survey is intended to satisfy the requirements for the asbestos National Emission Standard for Hazardous Air Pollutant (NESHAP) for demolition and renovation. It is not intended to be used for Occupational Safety and Health Administration (OSHA) compliance.

The on-site structure is a 1,400-square-foot vacant, single-story residence with a basement and detached garage which appeared to be constructed in the 1950s. The exterior of the structure was vinyl over transite siding with metal and vinyl windows, and an asphalt shingle roof. The structure utilized a forced air HVAC system.

LIMITATIONS

SCI's asbestos survey entailed visually assessing accessible areas only. If any other suspect asbestos materials are discovered during demolition or renovation, please contact SCI, and we will make arrangements for assessment of these materials. Areas behind walls, under subfloors and above fixed ceilings are considered non-accessible.

During the course of performing the survey of the structure, SCI was able to access all locations within the structure.

ASBESTOS SURVEY

Thirty-eight samples were collected from the on-site structure. These samples were analyzed by Polarized Light Microscopy (PLM). Of the 38 samples analyzed, five were found to contain asbestos.

Analytical test results and chain-of-custody documentation are enclosed. The results of the analysis of all samples are summarized in Table 1.

Table 1 - Summary of Analytical Test Results

Sample Number	Material Location	Material Description	Approx. Quantity	Result	Category
302-001a	Kitchen, Bathroom	2' x 2' Tan Floor Tile (on 002)	370 sf	None Detected in Floor Tile or Mastic	--
302-001b				None Detected in Floor Tile or Mastic	
302-001c				None Detected in Floor Tile or Mastic	
302-002a	Kitchen, Bathroom	12" x 12" Beige/Gray Floor Tile (under 001, on 003)	370 sf	None Detected in Floor Tile or Mastic	--
302-002b				None Detected in Floor Tile or Mastic	
302-002c				None Detected in Floor Tile or Mastic	
302-003a	Kitchen	Remnant Sheet Flooring (under 302-002, on wood)	320 sf	85-90% Chrysotile in Backing; None Detected in Flooring or Mastic	Friable
302-003b				85-90% Chrysotile in Backing; None Detected in Flooring or Mastic	
302-003c				85-90% Chrysotile in Backing; None Detected in Flooring or Mastic	
302-004	Basement, Diffuser Bells, Closet	Duct Paper	23 sf and 55 lf	85-90% Chrysotile	Friable
302-005a	Bathroom	Tan/Brown Streak Floor Tile (on wood)	50 sf	None Detected in Floor Tile or Mastic	--
302-005b				None Detected in Floor Tile or Mastic	
302-005c				None Detected in Floor Tile or Mastic	
302-006a	Kitchen	Tan Sink Undercoating	1 sink	None Detected	--
302-006b				None Detected	
302-006c				None Detected	
302-007a	Basement	Black Vibration Joint Cloth	16 sf	None Detected	--
302-007b				None Detected	
302-007c				None Detected	
302-008a	Throughout, Walls and Ceilings	Drywall System	--	None Detected	--
302-008b				None Detected	
302-008c				None Detected	
302-009a	Roof, Garage	Black Asphalt Shingle	2,625 sf	None Detected	--
302-009b				None Detected	
302-009c				None Detected	
302-010a	Roof, House & Garage	Green Asphalt Shingle (lower layer garage, upper layer house)	2,625 sf	None Detected	--
302-010b				None Detected	
302-010c				None Detected	

Sample Number	Material Location	Material Description	Approx. Quantity	Result	Category
302-011a	Exterior	White Door Caulk	18 lf	None Detected	--
302-011b				None Detected	
302-011c				None Detected	
302-012	Exterior	Transite Siding	2,260 sf	25-30% Chrysotile	NCII
302-013a	Roof, House	Brown Asphalt Shingle System (lower layer house)	1,750 sf	None Detected	--
302-013b				None Detected	
302-013c				None Detected	
302-014a	Garage Exterior	Window Glaze	16 lf	None Detected	--
302-014b				None Detected	
302-014c				None Detected	

sf - square feet

lf - linear feet

NCII - Non-Friable Category II Material

DEMOLITION/RENOVATION

According to the Missouri Department of Natural Resources (MDNR), any friable or potentially friable ACM equal to or greater than 260 linear feet or 160 square feet is classified as a regulated ACM (RACM) and must be removed prior to demolition or renovation which would significantly damage the material.

The duct paper and sheet floor backing are friable materials and exceed the minimum quantity requirements. These materials, therefore, must be removed from the structure prior to demolition.

The transite siding is a Category II non-friable material and according to the rule outlined above, is not, by definition, an RACM. However, it is the opinion of the MDNR that demolition activities will render this material friable and, therefore, must be removed prior to demolition. If the transite is removed in an intact state, it may be removed by a contractor with asbestos awareness training. Otherwise, the material should be abated by a licensed abatement contractor.

The Occupational Safety & Health Administration also has regulations (29 CFR Parts 1910 et al, Occupational Exposure to Asbestos, August 10, 1994) regarding removal of asbestos-containing materials which must be followed.

REPORTING

Attached is Missouri Department of Natural Resources' (MDNR) Notification of Demolition and Renovation form, which has been filled out to the extent possible by SCI. The remaining information must be completed by you.

This report, as well as the completed EPA Notification of Demolition and Renovation form, must be submitted to the MDNR as follows:

- Ms. Stephanie Hamilton, MDNR, Air Pollution Control, PO Box 176, Jefferson City, MO, 65102 at asbestosnotifications@dnr.mo.gov.

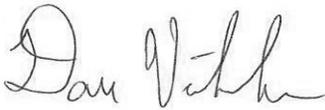
It should be noted that following submittal of the notification form, there is a ten-day waiting period before demolition, renovation, or abatement activities can begin.

If this report is to be used for bidding purposes for asbestos abatement, SCI recommends the contractor visit the site to verify all conditions and quantities.

SCI appreciates the opportunity to be of service to you on this project, and we look forward to working with you in the future. Please contact us if you have any questions or comments regarding the information provided.

Respectfully,

SCI ENGINEERING, INC.



Daniel P. Vielweber
Missouri State Certified Asbestos Inspector
Certificate Number 7118092019MOIR20150



Glen A. Grissom
Senior Specialist

DPV/GAG/rah

Enclosures

Asbestos NESHAP Notification of Demolition and Renovation
Analytical Test Results and Chain of Custody
Asbestos Inspector Certificate

CERTIFICATION NUMBER:

7011012720MOIR18366

THIS CERTIFIES

Travis S Clayton

HAS COMPLETED THE CERTIFICATION

REQUIREMENTS FOR

Inspector



APPROVED: **02/25/2020**

EXPIRES: **02/25/2021**

TRAINING DATE: **01/27/2020**

A handwritten signature in blue ink, which appears to read "James A. Byher".

Director of Air Pollution Control Program

CERTIFICATION NUMBER:

7118092019MOIR20150

THIS CERTIFIES

Daniel Vielweber

HAS COMPLETED THE CERTIFICATION

REQUIREMENTS FOR

Inspector



APPROVED: **09/27/2019**

TRAINING DATE: **09/20/2019**

EXPIRES: **09/27/2020**

Director of Air Pollution Control Program

The holder of this card is certified to conduct the specified occupation in conjunction with an asbestos abatement project under the certification requirements, in RSMo, 10 CSR 10-6.250.

It is unlawful for any person to use this card other than the individual to whom it is issued or in any manner inconsistent with the law.

Violations of Missouri State Rule 10 CSR 10-6.080, "Emission Standards for Hazardous Air Pollutants," which adopts by reference 40 CFR, Part 61, Subpart M, the "National Emission Standards for Asbestos," are subject to fines of not more than \$10,000 per day per violation. This Missouri State Certification is subject to review and the director may deny, suspend or revoke this certification per RSMo, chapter 643.230.

If found, please return to:



MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

Air Pollution Control Program

P.O. Box 176

Jefferson City, MO 65102

Phone: (573)751-4817 Fax: (573)751-2706

www.dnr.mo.gov/env/apcp



BULK SAMPLE ANALYSIS

Client: SCI Engineering, Inc.
 Project No.: 2020-0510.20
 Project Name: City of Pacific ACM Survey

Date Received: 08-10-20

Date Reported: 08-11-20

Technique: Polarized Light Microscopy with Dispersion Staining
In accordance with EPA/600/R-93/116 Test Method

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
397700	302-1a	None Detected	Synthetic Fibers	Binders, Vinyl, Aggregate
		None Detected in Mastic		Binders
397701	302-1b	None Detected	Synthetic Fibers	Binders, Vinyl, Aggregate
		None Detected in Mastic		Binders
397702	302-1c	None Detected	Synthetic Fibers	Binders, Vinyl, Aggregate
		None Detected in Mastic		Binders
397703	302-2a	None Detected	Synthetic Fibers	Binders, Vinyl, Aggregate
		None Detected in Mastic		Binders
397704	302-2b	None Detected	Synthetic Fibers	Binders, Vinyl, Aggregate
		None Detected in Mastic		Binders
397705	302-2c	None Detected	Synthetic Fibers	Binders, Vinyl, Aggregate
		None Detected in Mastic		Binders

* The upper detection limit is 100 percent.
 The lower detection limit is less than 1 percent.



BULK SAMPLE ANALYSIS

Client: SCI Engineering, Inc.
 Project No.: 2020-0510.20
 Project Name: City of Pacific ACM Survey

Date Received: 08-10-20

Date Reported: 08-11-20

Technique: Polarized Light Microscopy with Dispersion Staining
In accordance with EPA/600/R-93/116 Test Method

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
397706	302-3a	None Detected		Binders, Vinyl
	Backing	85-90% Chrysotile	Antigorite	Binders
		None Detected in Mastic		Binders
397707	302-3b	None Detected		Binders, Vinyl
	Backing	85-90% Chrysotile	Antigorite	Binders
		None Detected in Mastic		Binders
397708	302-3c	None Detected		Binders, Vinyl
	Backing	85-90% Chrysotile	Antigorite	Binders
		None Detected in Mastic		Binders
397709	302-4	85-90% Chrysotile	Antigorite	Binders
397710	302-5a	None Detected		Binders, Vinyl, Aggregate
		None Detected in Mastic		Binders
397711	302-5b	None Detected		Binders, Vinyl, Aggregate
		None Detected in Mastic		Binders

* The upper detection limit is 100 percent.
 The lower detection limit is less than 1 percent.



**PRECISION
ANALYSIS, INC.**
BULK SAMPLE ANALYSIS

Client: SCI Engineering, Inc.
Project No.: 2020-0510.20
Project Name: City of Pacific ACM Survey

Date Received: 08-10-20

Date Reported: 08-11-20

**Technique: Polarized Light Microscopy with Dispersion Staining
In accordance with EPA/600/R-93/116 Test Method**

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
397712	302-5c	None Detected		Binders, Vinyl, Aggregate
		None Detected in Mastic		Binders
397713	302-6a	None Detected	Cellulose	Binders
397714	302-6b	None Detected	Cellulose	Binders
397715	302-6c	None Detected	Cellulose	Binders
397716	302-7a	None Detected	Synthetic Fibers	Binders, Vinyl
397717	302-7b	None Detected	Synthetic Fibers	Binders, Vinyl
397718	302-7c	None Detected	Synthetic Fibers	Binders, Vinyl
397719	302-8a	None Detected	Cellulose	Binders
397720	302-8b	None Detected	Cellulose	Binders
397721	302-8c	None Detected	Cellulose	Binders, Paint
	No Joint Compound			
397722	302-9a	None Detected	Glass Wool	Black Tar Binders, Aggregate
397723	302-9b	None Detected	Glass Wool	Black Tar Binders, Aggregate
397724	302-9c	None Detected	Glass Wool	Black Tar Binders, Aggregate

* The upper detection limit is 100 percent.
The lower detection limit is less than 1 percent.



**PRECISION
ANALYSIS, INC.**
BULK SAMPLE ANALYSIS

Client: SCI Engineering, Inc.
Project No.: 2020-0510.20
Project Name: City of Pacific ACM Survey

Date Received: 08-10-20

Date Reported: 08-11-20

**Technique: Polarized Light Microscopy with Dispersion Staining
In accordance with EPA/600/R-93/116 Test Method**

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
397725	302-10a	None Detected	Glass Wool	Black Tar Binders, Aggregate
397726	302-10b	None Detected	Glass Wool	Black Tar Binders, Aggregate
397727	302-10c	None Detected	Glass Wool	Black Tar Binders, Aggregate
397728	302-11a	None Detected		Binders, Paint
397729	302-11b	None Detected		Binders, Paint
397730	302-11c	None Detected		Binders, Paint
397731	302-12	25-30% Chrysotile	Antigorite	Binders, Paint, Aggregate
397732	302-13a	None Detected	Cellulose, Glass Wool	Black Tar Binders, Aggregate
397733	302-13b	None Detected	Cellulose, Glass Wool	Black Tar Binders, Aggregate
397734	302-13c	None Detected	Cellulose, Glass Wool	Black Tar Binders, Aggregate
397735	302-14a	None Detected		Binders, Vinyl, Paint
397736	302-14b	None Detected		Binders, Vinyl, Paint

* The upper detection limit is 100 percent.
The lower detection limit is less than 1 percent.



**PRECISION
ANALYSIS, INC.**
BULK SAMPLE ANALYSIS

Client: SCI Engineering, Inc.
Project No.: 2020-0510.20
Project Name: City of Pacific ACM Survey

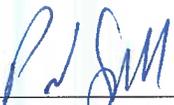
Date Received: 08-10-20

Date Reported: 08-11-20

**Technique: Polarized Light Microscopy with Dispersion Staining
In accordance with EPA/600/R-93/116 Test Method**

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
397737	302-14c	None Detected		Binders, Vinyl, Paint

* The upper detection limit is 100 percent.
The lower detection limit is less than 1 percent.



Paul Spell

Laboratory Director

AIHA Bulk Asbestos Proficiency Analytical Testing Program ID # 101228
In Association with RTI Center for Measurements and Quality Assurance

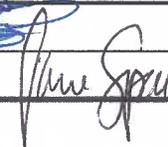
PLM is not recommended for analysis of vinyl floor tile. Vinyl floor tile often contains milled asbestos with fiber lengths of 1 micrometer or less. Because these fibers are not detected by PLM, PLM analysis may yield a false negative result. We recommend qualitative analysis of vinyl floor tile by Transmission Electron Microscopy (TEM).

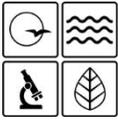
Precision Analysis assumes no responsibility for financial or health consequences for action or lack of action taken by our clients or their agents as a result of these analytical reports. Since Precision Analysis was not involved in the collection of these samples, we cannot attest to the proper collection of said samples and therefore are neither responsible nor liable for the accuracy, validity or completeness of the sample collection.



BULK ASBESTOS CHAIN OF CUSTODY

130 Point West Boulevard
St. Charles, Missouri 63301
636-949-8200 Fax 636-949-8269
www.sciengineering.com

Company : SCI Engineering, Inc.		Please Provide Results Via: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail			
Street: 130 Point West Boulevard		To: <u>Travis Clayton</u>			
City/State/Zip: St. Charles, Missouri 63301		Telephone #: <u>618-206-3049</u> Fax #: 636-949-8269			
Project Name: <u>City of Pacific Acom Surveys</u>		Email: <u>tcclayton@sciengineering.com</u>			
Project Number: <u>2020-0510.20</u>					
Turnaround Time (TAT) Options - Please Check One					
<input type="checkbox"/> 3 Hour	<input type="checkbox"/> 6 Hour	<input type="checkbox"/> 24 Hour	<input type="checkbox"/> 48 Hour		
<input type="checkbox"/> 72 Hour	<input type="checkbox"/> 96 Hour	<input checked="" type="checkbox"/> Other <u>5-5 Day</u> <u>Per</u>			
PLM Bulk Analysis		TEM Bulk Analysis			
<input checked="" type="checkbox"/> PLM-EPA 600 <input type="checkbox"/> PLM-EPA 600 NOB <input type="checkbox"/> PLM-Point Count		<input type="checkbox"/> TEM EPA NOB - EPA 600/R-93/116 Section 2.5.5.1 <input type="checkbox"/> Chatfield Protocol (semi-quantitative)			
<input checked="" type="checkbox"/> Check Box for Stop Positive					
Comments:					
Samplers Name: <u>Travis Clayton / D. Voelwaber</u>		Samplers Signature: 	Date Sampled: <u>8/16/2020</u>		
Building Use/Description/Features: <u>Vacant Residence, Single-story w/ Basement + Detached garage</u>		Age: <u>~70 years</u>	Size: <u>1,400 sf</u>		
Windows: <u>Vinyl/Metal</u>	Siding: <u>Vinyl over transite</u>	Roof: <u>Asphalt Shingle</u>	Attic: <u>Mineral Wool</u>		
HVAC: <u>Forced Air</u>					
Sample #	Material Location	Material Description	Approx. Quantity	Condition	Comments
<u>302-001A,B,C</u>	<u>Kitchen, Bath</u>	<u>Tan 2'x2' Floor Tile</u>	<u>370 sf</u>	<u>Good</u>	<u>On wood ^{Per} -002</u>
<u>302-002A,B,C</u>	<u>Kitchen, Bath</u>	<u>Beige/Gray 12"x12" Floor Tile</u>	<u>370 sf</u>	<u>Good</u>	<u>Under - 001, On - 003</u>
<u>302-003A,B,C</u>	<u>Kitchen</u>	<u>Remnant Sheet Flooring</u>	<u>320 sf</u>	<u>Good</u>	<u>Under - 002, On wood</u>
<u>302-004</u>	<u>Basement, Disposal Bells, Closet</u>	<u>Duct Paper</u>	<u>23sf + 55IP</u>	<u>Good</u>	
<u>302-005A,B,C</u>	<u>Bathroom</u>	<u>Tan/Brown Streak Floor Tile</u>	<u>50 sf</u>	<u>Good</u>	<u>On wood</u>
<u>302-006A,B,C</u>	<u>Kitchen</u>	<u>Tan Sink Undercutting</u>	<u>1 sink</u>	<u>Good</u>	
<u>302-007A,B,C</u>	<u>Basement</u>	<u>Black Urethane Joint Cloth</u>	<u>16 sf</u>	<u>Good</u>	
<u>302-008A,B,C</u>	<u>Throughout, Wall & Ceilings</u>	<u>Drywall System</u>	<u>-</u>	<u>Good</u>	
<u>302-009A,B,C</u>	<u>Roof, Garage</u>	<u>Black Asphalt Shingle</u>	<u>2,625 sf</u>	<u>Good</u>	<u>Garage</u>
Relinquished: 		Date: <u>8/17/2020</u>	RECEIVED	Time: <u>1500</u>	
Received: 		Date:	AUG 10 RECD	Time:	
			BY: 1 of 2		



ASBESTOS NESHAP NOTIFICATION OF DEMOLITION AND RENOVATION

GENERAL INSTRUCTIONS

NOTE: There is a \$100 review fee for this notification. Make checks payable to the department's Air Pollution Control Program or the appropriate local agency.

1. First-time notices = "Original." Amended projects = "Revision." Notice of cancellation = "Cancelled."
2. In the event that no asbestos removal was necessary, indicate "N/A" for asbestos removal contractor.
3. Indicate the type of project.
4. Mark the "YES" box if asbestos is present. In the next box, indicate what types of asbestos materials are present. Mark the "NO" box if no asbestos is present.
5. Failure to complete this section will result in an unapproved project. Include building uses, sizes and age. If you do not know the exact information, give your best estimate.
6. All regulated structures must be inspected by a certified asbestos inspector prior to renovation or demolition. Typically: "Certified asbestos inspector, with sample analysis by PLM." If other methods were used, explain.
7. All asbestos materials present in the building must be included here. Enter amounts (in ft², linear feet, or ft³) of material to be removed from or left in the building. For example, in the column "Nonfriable asbestos material to be removed," under subcolumn "CAT II" (on the "surface area" line) you might enter "5,200" and "transite" under the number. The inspection report, which must be attached to the notification, should reflect this information.
8. This line must be completed. Never enter a date that is not at least 10 working days after your postmark, unless you have been granted a waiver by the department. **Missouri law requires notifications to be submitted at least 10 working days in advance of the project start date.**
9. If applicable, enter the dates on which abatement will occur or has occurred.
10. Give a brief description of your demolition/renovation plans, including the scope of work to be performed and the methods used to perform the work. Use an additional page if necessary.
11. Describe how any asbestos-containing materials (ACM) involved will be removed prior to demolition/renovation. If ACM will be left in the building, then indicate precautions used to prevent ACM from being made friable. If all asbestos has been removed, "N/A."
12. Identify waste transporter.
13. Identify waste disposal site.
14. Complete this section only for ordered demolitions. Submit the order with the notification. For all others, "N/A."
15. Complete this section only for emergency renovation projects. For all other renovations, indicate "N/A."
16. Indicate what will be done in the event that friable asbestos or suspect materials are unexpectedly encountered.
17. For regulated asbestos abatement or demolition of an unsafe or damaged structure when a prior inspection has not been conducted, a person trained in the requirements of 40 CFR Part 61, Subpart M must be on site to supervise the asbestos abatement. In the event that no asbestos is present or has already been removed, mark "N/A."
18. Always sign and date this line. This form may be signed by the project owner or operator. The project approval letter will be mailed to the person who signs the notification form.

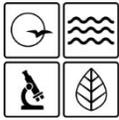
NOTE: For all regulated demolition and renovation projects, always include a complete copy of your asbestos inspection report with the notification form.

Send completed forms to:

Missouri Department of Natural Resources
APCP, Asbestos
PO Box 176
Jefferson City, MO 65102

If using priority mail, send to:

Missouri Department of Natural Resources
APCP, Asbestos
1659 E. Elm St.
Jefferson City, MO 65101



MISSOURI DEPARTMENT OF NATURAL RESOURCES
 AIR POLLUTION CONTROL PROGRAM
**ASBESTOS NESHAP NOTIFICATION OF DEMOLITION
 AND RENOVATION**

FOR OFFICE USE ONLY	
DATE RECEIVED	POSTMARK
CHECK DATE	CHECK NUMBER
CHECK AMOUNT	NOTIFICATION NUMBER

There is a \$100 review fee for this notification. Processing will be delayed if notification is received without payment.

1. TYPE OF NOTIFICATION

O – ORIGINAL C – CANCELLED R – REVISION, WRITE REVISION NUMBER _____

2. FACILITY INFORMATION (IDENTIFY OWNER, REMOVAL CONTRACTOR AND OTHER OPERATOR)

OWNER'S NAME		ADDRESS		
CITY	STATE	ZIP CODE	EMAIL	
CONTACT	TITLE		TELEPHONE NUMBER WITH AREA CODE	
ASBESTOS REMOVAL CONTRACTOR		ADDRESS		
CITY	STATE	ZIP CODE	EMAIL	
CONTACT	TITLE		TELEPHONE NUMBER WITH AREA CODE	
DEMOLITION CONTRACTOR		ADDRESS		
CITY	STATE	ZIP CODE	EMAIL	
CONTACT	TITLE		TELEPHONE NUMBER WITH AREA CODE	

3. TYPE OF OPERATION

D – DEMO O – ORDERED DEMO R – RENOVATION E – EMERGENCY RENOVATION

4. IS ASBESTOS PRESENT?

<input type="checkbox"/> YES <input type="checkbox"/> NO	LIST TYPE(S) OF ASBESTOS MATERIAL TO BE REMOVED
--	---

5. FACILITY DESCRIPTION

BUILDING NAME			
ADDRESS			
CITY	COUNTY	STATE	ZIP CODE
SITE LOCATION			
BUILDING SIZE	NUMBER OF FLOORS	AGE IN YEARS	
PRESENT USE	PRIOR USE		

6. PROCEDURE, INCLUDING ANALYTICAL METHOD, IF APPROPRIATE, USED TO DETECT THE PRESENCE OF ASBESTOS MATERIAL. INCLUDE A COPY OF THE ASBESTOS INSPECTION.

7. APPROXIMATE AMOUNT OF ASBESTOS, INCLUDING: A. REGULATED ACM (RACM) B. CATEGORY I ACM C. CATEGORY II ACM	RACM TO BE REMOVED	NONFRIABLE ASBESTOS MATERIAL TO BE REMOVED		NONFRIABLE ASBESTOS MATERIAL NOT TO BE REMOVED	
		CAT I	CAT II	CAT I	CAT II
PIPES (LINEAR FEET)					
SURFACE AREA (SQUARE FEET)					
VOL. RACM OFF FACILITY COMPONENT (CUBIC FEET)					

8. SCHEDULED DATES DEMO/RENOVATION (MM/DD/YY)			
START:		COMPLETION:	
9. SCHEDULED DATES ASBESTOS REMOVAL (MM/DD/YY)			
START:		COMPLETION:	WEEKDAY WORK HOURS
			WEEKEND WORK HOURS
10. DESCRIPTION OF PLANNED DEMOLITION OR RENOVATION WORK AND METHOD(S) TO BE USED			
11. DESCRIPTION OF WORK PRACTICES AND ENGINEERING CONTROLS TO BE USED TO PREVENT EMISSIONS OF ASBESTOS AT THE DEMOLITION OR RENOVATION SITE.			
12. WASTE TRANSPORTER			
NAME		ADDRESS	
CITY		STATE	ZIP CODE
CONTACT PERSON		TELEPHONE NUMBER WITH AREA CODE	
13. WASTE DISPOSAL SITE			
NAME			
LOCATION			
CITY		STATE	ZIP CODE
TELEPHONE NUMBER WITH AREA CODE			
14. IF DEMOLITION ORDERED BY A GOVERNMENT AGENCY, IDENTIFY THE AGENCY BELOW.			
NAME		TITLE	
AGENCY			
DATE OF ORDER (MM/DD/YY) INCLUDE A COPY OF THE ORDER.		DATE ORDERED TO BEGIN (MM/DD/YY)	
15. FOR EMERGENCY RENOVATIONS			
DATE AND HOUR OF EMERGENCY			
DESCRIPTION OF THE SUDDEN, UNEXPECTED EVENT			
EXPLANATION OF HOW THE EVENT CAUSED UNSAFE CONDITIONS OR WOULD CAUSE EQUIPMENT DAMAGE OR AN UNREASONABLE FINANCIAL BURDEN			
16. DESCRIPTION OF PROCEDURES TO BE FOLLOWED IN THE EVENT THAT UNEXPECTED ASBESTOS IS FOUND OR PREVIOUSLY NONFRIABLE ASBESTOS MATERIAL BECOMES CRUMBLLED, PULVERIZED OR REDUCED TO POWDER.			
17. I CERTIFY THAT AN INDIVIDUAL TRAINED IN THE PROVISIONS OF THIS REGULATION (40 CFR PART 61, SUBPART M) WILL BE ON-SITE DURING THE DEMOLITION OR RENOVATION AND EVIDENCE THAT THE REQUIRED TRAINING HAS BEEN ACCOMPLISHED BY THIS PERSON WILL BE AVAILABLE FOR INSPECTION DURING NORMAL BUSINESS HOURS (REQUIRED 1 YEAR AFTER PROMULGATION).			
SIGNATURE OF OWNER/OPERATOR			DATE
18. I CERTIFY THAT THE ABOVE INFORMATION IS CORRECT.			
SIGNATURE OF OWNER/OPERATOR			DATE



SCI ENGINEERING, INC.

EARTH • SCIENCE • SOLUTIONS

GEOTECHNICAL
ENVIRONMENTAL
NATURAL RESOURCES
CULTURAL RESOURCES
CONSTRUCTION SERVICES

August 21, 2020

Mr. Steve Roth
City of Pacific
300 Hoven Drive
Pacific, Missouri 63069

RE: Asbestos Survey Activities
312 E. Orleans Street
Pacific, Missouri
SCI No. 2020-0510.20 Task 009

Dear Mr. Roth:

INTRODUCTION

SCI Engineering, Inc. (SCI) is pleased to submit this report of the analytical test results for samples of suspect asbestos-containing materials (ACMs) collected during the survey performed on July 31, 2020. The survey was conducted by Mr. Dan Vielweber, Missouri-Licensed Asbestos Inspector. A copy of the asbestos inspector licenses is enclosed.

The purpose of this survey was to identify ACMs in accessible areas of the vacant residence addressed as 312 E. Orleans Street in Pacific, Missouri. This survey is intended to satisfy the requirements for the asbestos National Emission Standard for Hazardous Air Pollutant (NESHAP) for demolition and renovation. It is not intended to be used for Occupational Safety and Health Administration (OSHA) compliance.

The on-site structure is a 1,700-square-foot vacant, single-story residence which appeared to be constructed in the 1960s. The exterior of the structure was vinyl over transite siding with vinyl windows and an asphalt shingle roof. The structure utilized a forced air HVAC system.

LIMITATIONS

SCI's asbestos survey entailed visually assessing accessible areas only. If any other suspect asbestos materials are discovered during demolition or renovation, please contact SCI, and we will make arrangements for assessment of these materials. Areas behind walls, under subfloors and above fixed ceilings are considered non-accessible.

During the course of performing the survey of the structure, SCI was able to access all locations within the structure.

ASBESTOS SURVEY

Twenty samples were collected from the on-site structure. Of these 20 samples, 18 were analyzed using a positive stop procedure. These samples were analyzed by Polarized Light Microscopy (PLM). Of the

18 samples analyzed, 2 were found to contain asbestos. Analytical test results and chain-of-custody documentation are enclosed. The results of the analysis of all samples are summarized in Table 1.

Table 1 - Summary of Analytical Test Results

Sample Number	Material Location	Material Description	Approx. Quantity	Result	Category
312-001a	Throughout	Drywall System	--	None Detected	--
312-001b				None Detected	
312-001c				None Detected	
314-002a	Ducts	Duct Tape	15 lf	85-90% Chrysotile	Friable
312-002b				Not Analyzed Due to Positive Stop	
312-002c				Not Analyzed Due to Positive Stop	
312-003	Kitchen/ Basement	Pipe Insulation	20 lf	<1% Tremolite	Non-ACM
312-004a	Exterior	Window Glaze	--	None Detected	--
312-004b				None Detected	
312-004c				None Detected	
312-005a	Exterior	Window/Door Caulk	19 Windows/3 Doors	None Detected	--
312-005b				None Detected	
312-005c				None Detected	
312-006	Exterior	Transite Siding	1,800 sf	25-30% Chrysotile	NCII
132-007a	Exterior	Porch Ceiling Plaster	45 sf	None Detected	--
312-007b				None Detected	
312-007c				None Detected	
312-008a	Roof	Asphalt Shingle	2,125 sf	None Detected	--
312-008b				None Detected	
312-008c				None Detected	

sf - square feet

lf – linear feet

NCII - Non-Friable Category II Material

DEMOLITION/RENOVATION

According to the Missouri Department of Natural Resources (MDNR), any friable or potentially friable ACM equal to or greater than 260 linear feet or 160 square feet is classified as a regulated ACM (RACM) and must be removed prior to demolition or renovation which would significantly damage the material.

The duct tape is a friable material and, when considered in conjunction with other friable materials identified as part of this project, exceeds the minimum quantity requirements. This material, therefore, must be removed from the structure prior to demolition.

The transite siding is a Category II non-friable materials and according to the rule outlined above, is not, by definition, an RACM. However, it is the opinion of the MDNR that demolition activities will render this material friable and, therefore, it must be removed prior to demolition. If the transite is removed in an intact state, it may be removed by a contractor with asbestos awareness training. Otherwise, the material should be abated by a licensed abatement contractor.

The pipe insulation was found to contain less than one percent asbestos and, according to the NESHAP rule, is not considered an ACM. As such, the material is not required to be removed from the structure prior to machine demolition. If manual demolition or renovation is required, this material should be removed prior to activities which will impact the material.

The Occupational Safety & Health Administration also has regulations (29 CFR Parts 1910 et al, Occupational Exposure to Asbestos, August 10, 1994) regarding removal of asbestos-containing materials which must be followed.

REPORTING

Attached is Missouri Department of Natural Resources' (MDNR) Notification of Demolition and Renovation form, which has been filled out to the extent possible by SCI. The remaining information must be completed by you.

This report, as well as the completed EPA Notification of Demolition and Renovation form, must be submitted to the MDNR as follows:

- Ms. Stephanie Hamilton, MDNR, Air Pollution Control, PO Box 176, Jefferson City, MO, 65102 at asbestosnotifications@dnr.mo.gov.

It should be noted that following submittal of the notification form, there is a ten-day waiting period before demolition, renovation, or abatement activities can begin.

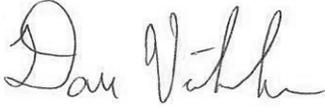
If this report is to be used for bidding purposes for asbestos abatement, SCI recommends the contractor visit the site to verify all conditions and quantities.

SCI appreciates the opportunity to be of service to you on this project, and we look forward to working with you in the future.

Please contact us if you have any questions or comments regarding the information provided.

Respectfully,

SCI ENGINEERING, INC.



Daniel P. Vielweber
Missouri State Certified Asbestos Inspector
Certificate Number 7118092019MOIR20150



Glen A. Grissom
Senior Specialist

DPV/GAG/rah

Enclosures

Asbestos NESHAP Notification of Demolition and Renovation
Analytical Test Results and Chain of Custody
Asbestos Inspector Certificate

CERTIFICATION NUMBER:

7011012720MOIR18366

THIS CERTIFIES

Travis S Clayton

HAS COMPLETED THE CERTIFICATION

REQUIREMENTS FOR

Inspector



APPROVED: **02/25/2020**

EXPIRES: **02/25/2021**

TRAINING DATE: **01/27/2020**

A handwritten signature in blue ink, appearing to read "James A. Byher".

Director of Air Pollution Control Program

CERTIFICATION NUMBER:

7118092019MOIR20150

THIS CERTIFIES

Daniel Vielweber

HAS COMPLETED THE CERTIFICATION

REQUIREMENTS FOR

Inspector



APPROVED: **09/27/2019**

TRAINING DATE: **09/20/2019**

EXPIRES: **09/27/2020**

Director of Air Pollution Control Program

The holder of this card is certified to conduct the specified occupation in conjunction with an asbestos abatement project under the certification requirements, in RSMo, 10 CSR 10-6.250.

It is unlawful for any person to use this card other than the individual to whom it is issued or in any manner inconsistent with the law.

Violations of Missouri State Rule 10 CSR 10-6.080, "Emission Standards for Hazardous Air Pollutants," which adopts by reference 40 CFR, Part 61, Subpart M, the "National Emission Standards for Asbestos," are subject to fines of not more than \$10,000 per day per violation. This Missouri State Certification is subject to review and the director may deny, suspend or revoke this certification per RSMo, chapter 643.230.

If found, please return to:



MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

Air Pollution Control Program

P.O. Box 176

Jefferson City, MO 65102

Phone: (573)751-4817 Fax: (573)751-2706

www.dnr.mo.gov/env/apcp



BULK SAMPLE ANALYSIS

Client: SCI Engineering, Inc.
 Project No.: 2020-0510.20
 Project Name: City of Pacific ACM Surveys

Date Received: 08-03-20

Date Reported: 08-04-20

Technique: Polarized Light Microscopy with Dispersion Staining
In accordance with EPA/600/R-93/116 Test Method

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
397007	312-1a	None Detected		Binders, Polyfoam, Paint
397008	312-1b	None Detected		Binders, Polyfoam, Paint
397009	312-1c	None Detected		Binders, Polyfoam, Paint
397010	312-2a	85-90% Chrysotile	Antigorite	Binders
397011	312-3	< 1% Tremolite		Binders, Mica
397012	312-4a	None Detected		Binders, Paint
397013	312-4b	None Detected		Binders, Paint
397014	312-4c	None Detected		Binders, Paint
397015	312-5a	None Detected		Binders, Paint
397016	312-5b	None Detected		Binders, Paint
397017	312-5c	None Detected		Binders, Paint
397018	312-6a	25-30% Chrysotile	Antigorite	Binders, Paint, Aggregate
397019	312-7a	None Detected		Binders, Polyfoam
397020	312-7b	None Detected		Binders, Polyfoam
397021	312-7c	None Detected	Cellulose	Binders, Paint

* The upper detection limit is 100 percent.
 The lower detection limit is less than 1 percent.



**PRECISION
ANALYSIS, INC.**
BULK SAMPLE ANALYSIS

Client: SCI Engineering, Inc.
Project No.: 2020-0510.20
Project Name: City of Pacific ACM Surveys

Date Received: 08-03-20

Date Reported: 08-04-20

**Technique: Polarized Light Microscopy with Dispersion Staining
In accordance with EPA/600/R-93/116 Test Method**

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
397022	312-8a	None Detected	Cellulose, Glass Wool	Black Tar Binders, Aggregate
397023	312-8b	None Detected	Cellulose, Glass Wool	Black Tar Binders, Aggregate
397024	312-8c	None Detected	Cellulose, Glass Wool	Black Tar Binders, Aggregate

* The upper detection limit is 100 percent.
The lower detection limit is less than 1 percent.



Paul Spell
Laboratory Director

AIHA Bulk Asbestos Proficiency Analytical Testing Program ID # 101228
In Association with RTI Center for Measurements and Quality Assurance

PLM is not recommended for analysis of vinyl floor tile. Vinyl floor tile often contains milled asbestos with fiber lengths of 1 micrometer or less. Because these fibers are not detected by PLM, PLM analysis may yield a false negative result. We recommend qualitative analysis of vinyl floor tile by Transmission Electron Microscopy (TEM).

Precision Analysis assumes no responsibility for financial or health consequences for action or lack of action taken by our clients or their agents as a result of these analytical reports. Since Precision Analysis was not involved in the collection of these samples, we cannot attest to the proper collection of said samples and therefore are neither responsible nor liable for the accuracy, validity or completeness of the sample collection.

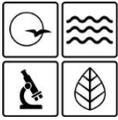


BULK ASBESTOS CHAIN OF CUSTODY

130 Point West Boulevard
St. Charles, Missouri 63301
636-949-8200 Fax 636-949-8269
www.sciengineering.com

Company: SCI Engineering, Inc.		Please Provide Results Via: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail	
Street: 130 Point West Boulevard		To: Glen Grissom	
City/State/Zip: St. Charles, Missouri 63301		Telephone #: 636-949-8200 Fax #: 636-949-8269	
Project Name: City of Pacific-ACM Surveys		Email: ggrissom@sciengineering.com	
Project Number: 2020-0510.20			
Turnaround Time (TAT) Options - Please Check One			
<input type="checkbox"/> 3 Hour	<input type="checkbox"/> 6 Hour	<input type="checkbox"/> 24 Hour	<input type="checkbox"/> 48 Hour
<input type="checkbox"/> 72 Hour	<input type="checkbox"/> 96 Hour	<input checked="" type="checkbox"/> Other 5 Day	
PLM Bulk Analysis			
<input checked="" type="checkbox"/> PLM-EPA 600			
<input type="checkbox"/> PLM-EPA 600 NOB			
<input type="checkbox"/> PLM-Point Count			
<input checked="" type="checkbox"/> Check Box for Stop Positive			
Comments: 312 E. Orleans St.			
Samplers Name: Dan Vewelber		Samplers Signature: <i>Dan Vewelber</i>	
Building Use/Description/Features: Residence		Date Sampled: 7-31-20	
Windows: Vinyl		Size: HVAC: Forced Air	
Sample #	Material Location	Material Description	Approx. Quantity
312-001ABC	Throughout	Drywall Systems	Good
312-002ABC	Ducts	Duct Tape	Good
312-003	Kitchen/Basement	Pipe Insulation	Good
312-004ABC	Exterior	Window Glaze	Good
312-005ABC	Exterior	Window Caulk	Good
312-006	Exterior	Transite	Good
312-007ABC	Exterior	Porch Ceiling Plaster	45 SF
312-008ABC	Roof	Asphalt Shingle	Good
Relinquished: <i>Dan Vewelber</i>		Time: 1545	
Received: <i>[Signature]</i>		Time: AUG 03 RECD	

RECEIVED
BY: *[Signature]*
1 of 1



ASBESTOS NESHAP NOTIFICATION OF DEMOLITION AND RENOVATION

GENERAL INSTRUCTIONS

NOTE: There is a \$100 review fee for this notification. Make checks payable to the department's Air Pollution Control Program or the appropriate local agency.

1. First-time notices = "Original." Amended projects = "Revision." Notice of cancellation = "Cancelled."
2. In the event that no asbestos removal was necessary, indicate "N/A" for asbestos removal contractor.
3. Indicate the type of project.
4. Mark the "YES" box if asbestos is present. In the next box, indicate what types of asbestos materials are present. Mark the "NO" box if no asbestos is present.
5. Failure to complete this section will result in an unapproved project. Include building uses, sizes and age. If you do not know the exact information, give your best estimate.
6. All regulated structures must be inspected by a certified asbestos inspector prior to renovation or demolition. Typically: "Certified asbestos inspector, with sample analysis by PLM." If other methods were used, explain.
7. All asbestos materials present in the building must be included here. Enter amounts (in ft², linear feet, or ft³) of material to be removed from or left in the building. For example, in the column "Nonfriable asbestos material to be removed," under subcolumn "CAT II" (on the "surface area" line) you might enter "5,200" and "transite" under the number. The inspection report, which must be attached to the notification, should reflect this information.
8. This line must be completed. Never enter a date that is not at least 10 working days after your postmark, unless you have been granted a waiver by the department. **Missouri law requires notifications to be submitted at least 10 working days in advance of the project start date.**
9. If applicable, enter the dates on which abatement will occur or has occurred.
10. Give a brief description of your demolition/renovation plans, including the scope of work to be performed and the methods used to perform the work. Use an additional page if necessary.
11. Describe how any asbestos-containing materials (ACM) involved will be removed prior to demolition/renovation. If ACM will be left in the building, then indicate precautions used to prevent ACM from being made friable. If all asbestos has been removed, "N/A."
12. Identify waste transporter.
13. Identify waste disposal site.
14. Complete this section only for ordered demolitions. Submit the order with the notification. For all others, "N/A."
15. Complete this section only for emergency renovation projects. For all other renovations, indicate "N/A."
16. Indicate what will be done in the event that friable asbestos or suspect materials are unexpectedly encountered.
17. For regulated asbestos abatement or demolition of an unsafe or damaged structure when a prior inspection has not been conducted, a person trained in the requirements of 40 CFR Part 61, Subpart M must be on site to supervise the asbestos abatement. In the event that no asbestos is present or has already been removed, mark "N/A."
18. Always sign and date this line. This form may be signed by the project owner or operator. The project approval letter will be mailed to the person who signs the notification form.

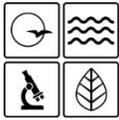
NOTE: For all regulated demolition and renovation projects, always include a complete copy of your asbestos inspection report with the notification form.

Send completed forms to:

Missouri Department of Natural Resources
APCP, Asbestos
PO Box 176
Jefferson City, MO 65102

If using priority mail, send to:

Missouri Department of Natural Resources
APCP, Asbestos
1659 E. Elm St.
Jefferson City, MO 65101



MISSOURI DEPARTMENT OF NATURAL RESOURCES
 AIR POLLUTION CONTROL PROGRAM
**ASBESTOS NESHAP NOTIFICATION OF DEMOLITION
 AND RENOVATION**

FOR OFFICE USE ONLY	
DATE RECEIVED	POSTMARK
CHECK DATE	CHECK NUMBER
CHECK AMOUNT	NOTIFICATION NUMBER

There is a \$100 review fee for this notification. Processing will be delayed if notification is received without payment.

1. TYPE OF NOTIFICATION

O – ORIGINAL C – CANCELLED R – REVISION, WRITE REVISION NUMBER _____

2. FACILITY INFORMATION (IDENTIFY OWNER, REMOVAL CONTRACTOR AND OTHER OPERATOR)

OWNER'S NAME		ADDRESS		
CITY	STATE	ZIP CODE	EMAIL	
CONTACT	TITLE		TELEPHONE NUMBER WITH AREA CODE	
ASBESTOS REMOVAL CONTRACTOR		ADDRESS		
CITY	STATE	ZIP CODE	EMAIL	
CONTACT	TITLE		TELEPHONE NUMBER WITH AREA CODE	
DEMOLITION CONTRACTOR		ADDRESS		
CITY	STATE	ZIP CODE	EMAIL	
CONTACT	TITLE		TELEPHONE NUMBER WITH AREA CODE	

3. TYPE OF OPERATION

D – DEMO O – ORDERED DEMO R – RENOVATION E – EMERGENCY RENOVATION

4. IS ASBESTOS PRESENT?

<input type="checkbox"/> YES <input type="checkbox"/> NO	LIST TYPE(S) OF ASBESTOS MATERIAL TO BE REMOVED
--	---

5. FACILITY DESCRIPTION

BUILDING NAME			
ADDRESS			
CITY	COUNTY	STATE	ZIP CODE
SITE LOCATION			
BUILDING SIZE	NUMBER OF FLOORS	AGE IN YEARS	
PRESENT USE		PRIOR USE	

6. PROCEDURE, INCLUDING ANALYTICAL METHOD, IF APPROPRIATE, USED TO DETECT THE PRESENCE OF ASBESTOS MATERIAL. INCLUDE A COPY OF THE ASBESTOS INSPECTION.

7. APPROXIMATE AMOUNT OF ASBESTOS, INCLUDING: A. REGULATED ACM (RACM) B. CATEGORY I ACM C. CATEGORY II ACM	RACM TO BE REMOVED	NONFRIABLE ASBESTOS MATERIAL TO BE REMOVED		NONFRIABLE ASBESTOS MATERIAL NOT TO BE REMOVED	
		CAT I	CAT II	CAT I	CAT II
PIPES (LINEAR FEET)					
SURFACE AREA (SQUARE FEET)					
VOL. RACM OFF FACILITY COMPONENT (CUBIC FEET)					

8. SCHEDULED DATES DEMO/RENOVATION (MM/DD/YY)			
START:		COMPLETION:	
9. SCHEDULED DATES ASBESTOS REMOVAL (MM/DD/YY)			
START:		COMPLETION:	WEEKDAY WORK HOURS
			WEEKEND WORK HOURS
10. DESCRIPTION OF PLANNED DEMOLITION OR RENOVATION WORK AND METHOD(S) TO BE USED			
11. DESCRIPTION OF WORK PRACTICES AND ENGINEERING CONTROLS TO BE USED TO PREVENT EMISSIONS OF ASBESTOS AT THE DEMOLITION OR RENOVATION SITE.			
12. WASTE TRANSPORTER			
NAME		ADDRESS	
CITY		STATE	ZIP CODE
CONTACT PERSON		TELEPHONE NUMBER WITH AREA CODE	
13. WASTE DISPOSAL SITE			
NAME			
LOCATION			
CITY		STATE	ZIP CODE
TELEPHONE NUMBER WITH AREA CODE			
14. IF DEMOLITION ORDERED BY A GOVERNMENT AGENCY, IDENTIFY THE AGENCY BELOW.			
NAME		TITLE	
AGENCY			
DATE OF ORDER (MM/DD/YY) INCLUDE A COPY OF THE ORDER.		DATE ORDERED TO BEGIN (MM/DD/YY)	
15. FOR EMERGENCY RENOVATIONS			
DATE AND HOUR OF EMERGENCY			
DESCRIPTION OF THE SUDDEN, UNEXPECTED EVENT			
EXPLANATION OF HOW THE EVENT CAUSED UNSAFE CONDITIONS OR WOULD CAUSE EQUIPMENT DAMAGE OR AN UNREASONABLE FINANCIAL BURDEN			
16. DESCRIPTION OF PROCEDURES TO BE FOLLOWED IN THE EVENT THAT UNEXPECTED ASBESTOS IS FOUND OR PREVIOUSLY NONFRIABLE ASBESTOS MATERIAL BECOMES CRUMBLLED, PULVERIZED OR REDUCED TO POWDER.			
17. I CERTIFY THAT AN INDIVIDUAL TRAINED IN THE PROVISIONS OF THIS REGULATION (40 CFR PART 61, SUBPART M) WILL BE ON-SITE DURING THE DEMOLITION OR RENOVATION AND EVIDENCE THAT THE REQUIRED TRAINING HAS BEEN ACCOMPLISHED BY THIS PERSON WILL BE AVAILABLE FOR INSPECTION DURING NORMAL BUSINESS HOURS (REQUIRED 1 YEAR AFTER PROMULGATION).			
SIGNATURE OF OWNER/OPERATOR			DATE
18. I CERTIFY THAT THE ABOVE INFORMATION IS CORRECT.			
SIGNATURE OF OWNER/OPERATOR			DATE



SCI ENGINEERING, INC.

EARTH • SCIENCE • SOLUTIONS

GEOTECHNICAL
ENVIRONMENTAL
NATURAL RESOURCES
CULTURAL RESOURCES
CONSTRUCTION SERVICES

August 21, 2020

Mr. Steve Roth
City of Pacific
300 Hoven Drive
Pacific, Missouri 63069

RE: Asbestos Survey Activities
321 E. Orleans Street
Pacific, Missouri
SCI No. 2020-0510.20 Task 002

Dear Mr. Roth:

INTRODUCTION

SCI Engineering, Inc. (SCI) is pleased to submit this report of the analytical test results for samples of suspect asbestos-containing materials (ACMs) collected during the survey performed on July 31, 2020. The survey was conducted by Mr. Dan Vielweber, Missouri-Licensed Asbestos Inspector. A copy of Mr. Vielweber's asbestos inspector license is enclosed.

The purpose of this survey was to identify ACMs in accessible areas of the Alcoholics Anonymous St. Louis – Pacific Facility addressed as 321 E. Orleans Street in Pacific, Missouri. This survey is intended to satisfy the requirements for the asbestos National Emission Standard for Hazardous Air Pollutant (NESHAP) for demolition and renovation as well as for Occupational Safety and Health Administration (OSHA) compliance.

The on-site structure is an approximate 3,700-square-foot single-story institutional facility with basement which appeared to have been constructed in the 1960s. The exterior of the structure was transite siding with vinyl windows, and an asphalt shingle roof. The structure utilized a forced air HVAC system.

LIMITATIONS

SCI's asbestos survey entailed visually assessing accessible areas only. If any other suspect asbestos materials are discovered during demolition or renovation, please contact SCI, and we will make arrangements for assessment of these materials. Areas behind walls, under subfloors and above fixed ceilings are considered non-accessible.

During the course of performing the survey of the structure, SCI was able to access all locations within the structure.

ASBESTOS SURVEY

Twenty-six samples were collected from the on-site structure. Of these 26 samples, 24 were analyzed using a positive stop procedure. These samples were analyzed by Polarized Light Microscopy (PLM). Of

the 24 samples analyzed, 2 samples/layers were found to contain asbestos. Analytical test results and chain-of-custody documentation are enclosed. The results of the analysis of all samples are summarized in Table 1.

Table 1 - Summary of Analytical Test Results

Sample Number	Material Location	Material Description	Approx. Quantity	Result	Category
321-001a	Roof	Asphalt Shingles	4,625 sf	None Detected	--
321-001b				None Detected	
321-001c				None Detected	
321-002a	Exterior	Window Glaze	18 Windows (400 lf)	5-10% Chrysotile	NCII
321-002b				Not Analyzed due to Positive Stop	
321-002c				Not Analyzed due to Positive Stop	
321-003a	Exterior	Window/ Door Caulk	23 Windows 3 Doors	None Detected	--
321-003b				None Detected	
321-003c				None Detected	
321-004a	Exterior	Tar Paper	--	None Detected	--
321-004b				None Detected	
321-004c				None Detected	
321-005	Exterior	Transite Siding	3,450 sf	25-30% Chrysotile	NCII
321-006a	Throughout	Drywall System	--	None Detected in Drywall or Joint Compound	
321-006b				None Detected in Drywall or Joint Compound	
321-006c				None Detected in Drywall or Joint Compound	
321-007	Bathrooms	Tan Pebble Sheet Flooring (on wood)	60 sf	None Detected in Sheet Flooring, Backing or Mastic	--
321-008a	Throughout	1' x 1' White Ceiling Tile (splined)	--	None Detected	--
321-008b				None Detected	
321-008c				None Detected	
321-009a	Back Office	2' x 2' Pinhole Ceiling Tile (lay-in)	--	None Detected	--
321-009b				None Detected	
321-009c				None Detected	
321-010a	Meeting Room	Skim Coat	--	None Detected	--
321-010b				None Detected	
321-010c				None Detected	

sf - square feet

NCII - Non-Friable Category II Material

DEMOLITION/RENOVATION

According to the Missouri Department of Natural Resources (MDNR), any friable or potentially friable ACM equal to or greater than 260 linear feet or 160 square feet is classified as a regulated ACM (RACM) and must be removed prior to demolition or renovation which would significantly damage the material.

The transite siding are Category II non-friable material and according to the rule outlined above, are not, by definition, RACMs. However, it is the opinion of the MDNR that demolition activities will render the transite friable and, therefore, it must be removed prior to demolition. If the transite is removed in an intact state, it may be removed by a contractor with asbestos awareness training. Otherwise, the material should be abated by a licensed abatement contractor.

The window glazing is a Category II non-friable material and it is MDNR's opinion that this material will not be rendered friable by demolition. This material, therefore, is not required to be abated prior to demolition.

The Occupational Safety & Health Administration also has regulations (29 CFR Parts 1910 et al, Occupational Exposure to Asbestos, August 10, 1994) regarding removal of asbestos-containing materials which must be followed.

REPORTING

Attached is Missouri Department of Natural Resources' (MDNR) Notification of Demolition and Renovation form, which has been filled out to the extent possible by SCI. The remaining information must be completed by you.

This report, as well as the completed EPA Notification of Demolition and Renovation form, must be submitted to the MDNR as follows:

- Ms. Stephanie Hamilton, MDNR, Air Pollution Control, PO Box 176, Jefferson City, MO, 65102 at asbestosnotifications@dnr.mo.gov.

It should be noted that following submittal of the notification form, there is a ten-day waiting period before demolition, renovation, or abatement activities can begin.

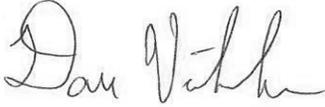
If this report is to be used for bidding purposes for asbestos abatement, SCI recommends the contractor visit the site to verify all conditions and quantities.

SCI appreciates the opportunity to be of service to you on this project, and we look forward to working with you in the future.

Please contact us if you have any questions or comments regarding the information provided.

Respectfully,

SCI ENGINEERING, INC.



Daniel P. Vielweber
Missouri State Certified Asbestos Inspector
Certificate Number 7118092019MOIR20150



Glen A. Grissom
Senior Specialist

DPV/GAG/rah

Enclosures

Asbestos NESHAP Notification of Demolition and Renovation
Analytical Test Results and Chain of Custody
Asbestos Inspector Certificate

CERTIFICATION NUMBER:

7011012720MOIR18366

THIS CERTIFIES

Travis S Clayton

HAS COMPLETED THE CERTIFICATION

REQUIREMENTS FOR

Inspector



APPROVED: **02/25/2020**

EXPIRES: **02/25/2021**

TRAINING DATE: **01/27/2020**

A handwritten signature in blue ink, which appears to read "James A. Byher".

Director of Air Pollution Control Program

CERTIFICATION NUMBER:

7118092019MOIR20150

THIS CERTIFIES

Daniel Vielweber

HAS COMPLETED THE CERTIFICATION

REQUIREMENTS FOR

Inspector



APPROVED: **09/27/2019**

TRAINING DATE: **09/20/2019**

EXPIRES: **09/27/2020**

Director of Air Pollution Control Program

The holder of this card is certified to conduct the specified occupation in conjunction with an asbestos abatement project under the certification requirements, in RSMo, 10 CSR 10-6.250.

It is unlawful for any person to use this card other than the individual to whom it is issued or in any manner inconsistent with the law.

Violations of Missouri State Rule 10 CSR 10-6.080, "Emission Standards for Hazardous Air Pollutants," which adopts by reference 40 CFR, Part 61, Subpart M, the "National Emission Standards for Asbestos," are subject to fines of not more than \$10,000 per day per violation. This Missouri State Certification is subject to review and the director may deny, suspend or revoke this certification per RSMo, chapter 643.230.

If found, please return to:



MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

Air Pollution Control Program

P.O. Box 176

Jefferson City, MO 65102

Phone: (573)751-4817 Fax: (573)751-2706

www.dnr.mo.gov/env/apcp



**PRECISION
ANALYSIS, INC.**
BULK SAMPLE ANALYSIS

Client: SCI Engineering, Inc.
Project No.: 2020-0510.20
Project Name: City of Pacific ACM Surveys

Date Received: 08-03-20

Date Reported: 08-04-20

**Technique: Polarized Light Microscopy with Dispersion Staining
In accordance with EPA/600/R-93/116 Test Method**

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
397025	321-1a	None Detected	Glass Wool	Black Tar Binders, Aggregate
397026	321-1b	None Detected	Glass Wool	Black Tar Binders, Aggregate
397027	321-1c	None Detected	Glass Wool	Black Tar Binders, Aggregate
397028	321-2a	5-10% Chrysotile		Binders, Paint
397029	321-3a	None Detected		Binders, Vinyl, Paint
397030	321-3b	None Detected		Binders, Vinyl, Paint
397031	321-3c	None Detected		Binders, Vinyl, Paint
397032	321-4a	None Detected	Cellulose	Black Tar Binders
397033	321-4b	None Detected	Cellulose	Black Tar Binders
397034	321-4c	None Detected	Cellulose	Black Tar Binders
397035	321-5	25-30% Chrysotile	Antigorite	Binders, Paint, Aggregate
397036	321-6a Drywall	None Detected	Cellulose, Glass Wool	Binders

* The upper detection limit is 100 percent.
The lower detection limit is less than 1 percent.



**PRECISION
ANALYSIS, INC.**
BULK SAMPLE ANALYSIS

Client: SCI Engineering, Inc.
Project No.: 2020-0510.20
Project Name: City of Pacific ACM Surveys

Date Received: 08-03-20

Date Reported: 08-04-20

**Technique: Polarized Light Microscopy with Dispersion Staining
In accordance with EPA/600/R-93/116 Test Method**

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
397037	321-6b Drywall	None Detected	Cellulose, Glass Wool	Binders
397038	321-6c Drywall	None Detected	Cellulose, Glass Wool	Binders
397039	321-6a Joint Compound	None Detected		Binders, Mica
397040	321-6b Joint Compound	None Detected		Binders, Mica
397041	321-6c Joint Compound	None Detected		Binders, Mica
397042	321-7 Backing	None Detected	Cellulose, Glass Wool	Binders, Vinyl Binders
		None Detected in Mastic		Binders
397043	321-8a	None Detected	Cellulose	Binders, Paint
397044	321-8b	None Detected	Cellulose	Binders, Paint
397045	321-8c	None Detected	Cellulose	Binders, Paint
397046	321-9a	None Detected	Cellulose, Glass Wool	Binders, Polyfoam, Paint
397047	321-9b	None Detected	Cellulose, Glass Wool	Binders, Polyfoam, Paint

* The upper detection limit is 100 percent.
The lower detection limit is less than 1 percent.



PRECISION ANALYSIS, INC.

BULK SAMPLE ANALYSIS

Client: SCI Engineering, Inc.
 Project No.: 2020-0510.20
 Project Name: City of Pacific ACM Surveys

Date Received: 08-03-20

Date Reported: 08-04-20

Technique: Polarized Light Microscopy with Dispersion Staining
In accordance with EPA/600/R-93/116 Test Method

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
397048	321-9c	None Detected	Cellulose, Glass Wool	Binders, Polyfoam, Paint
397049	321-10a	None Detected		Binders, Paint, Aggregate
397050	321-10b	None Detected		Binders, Paint, Aggregate
397051	321-10c	None Detected		Binders, Paint, Aggregate

* The upper detection limit is 100 percent.
 The lower detection limit is less than 1 percent.

Paul Spell
 Laboratory Director

AIHA Bulk Asbestos Proficiency Analytical Testing Program ID # 101228
 In Association with RTI Center for Measurements and Quality Assurance

PLM is not recommended for analysis of vinyl floor tile. Vinyl floor tile often contains milled asbestos with fiber lengths of 1 micrometer or less. Because these fibers are not detected by PLM, PLM analysis may yield a false negative result. We recommend qualitative analysis of vinyl floor tile by Transmission Electron Microscopy (TEM).

Precision Analysis assumes no responsibility for financial or health consequences for action or lack of action taken by our clients or their agents as a result of these analytical reports. Since Precision Analysis was not involved in the collection of these samples, we cannot attest to the proper collection of said samples and therefore are neither responsible nor liable for the accuracy, validity or completeness of the sample collection.

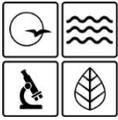


BULK ASBESTOS CHAIN OF CUSTODY

130 Point West Boulevard
St. Charles, Missouri 63301
636-949-8200 Fax 636-949-8269
www.sciengineering.com

Company : SCI Engineering, Inc.			Please Provide Results Via: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail		
Street: 130 Point West Boulevard			To: Glen Grissom		
City/State/Zip: St. Charles, Missouri 63301			Telephone #: 636-949-8200 Fax #: 636-949-8269		
Project Name: City of Pacific ACM Surveys			Email: ggrissom@sciengineering.com		
Project Number: 2020-0510.20					
Turnaround Time (TAT) Options - Please Check One					
<input type="checkbox"/> 3 Hour		<input type="checkbox"/> 6 Hour		<input type="checkbox"/> 24 Hour	
				<input type="checkbox"/> 48 Hour	
				<input type="checkbox"/> 72 Hour	
				<input type="checkbox"/> 96 Hour	
				<input checked="" type="checkbox"/> Other 5 Day	
PLM Bulk Analysis			TEM Bulk Analysis		
<input checked="" type="checkbox"/> PLM-EPA 600			<input type="checkbox"/> TEM EPA NOB - EPA 600/R-93/116 Section 2.5.5.1		
<input type="checkbox"/> PLM-EPA 600 NOB			<input type="checkbox"/> Chatfield Protocol (semi-quantitative)		
<input type="checkbox"/> PLM-Point Count					
<input checked="" type="checkbox"/> Check Box for Stop Positive					
Comments: 321 E. Orleans St.					
Samplers Name: Dan Vielweber			Samplers Signature: <i>Daniel Vielweber</i>		Date Sampled: 7-31-20
Building Use/Description/Features: Meeting Hall				Age:	Size:
Windows: Vinyl	siding: Transite	Roof: Asphalt Shingle	Attic:	HVAC: Forced Air	
Sample #	Material Location	Material Description	Approx. Quantity	Condition	Comments
321-001ABC	Roof	Asphalt Shingle		Good	
321-002ABC	Exterior	Window Glaze	18 Windows	Good	
321-003ABC	Exterior	Window/Door Caulk	23 Windows, 3 Doors	Good	
321-004ABC	Exterior	Tar Paper		Good	Under 5
321-005	Exterior	Transite Siding		Good	
321-006ABC	Throughout	Drywall System		Good	
321-007	Bathrooms	Tan Pebble Sheet Flooring	60 SF	Good	On Wood
321-008ABC	Throughout	1x1 White Ceiling Tile		Good	Splined
321-009ABC	Back Office	2x2 Pinhole Ceiling Tile		Good	
Relinquished: <i>Daniel Vielweber</i>		Date: 7-31-20	RECEIVED		Time: 1545
Received: <i>James Hill</i>		Date:	AUG 03 REC'D		Time:

BY: _____
1 of 2



ASBESTOS NESHAP NOTIFICATION OF DEMOLITION AND RENOVATION

GENERAL INSTRUCTIONS

NOTE: There is a \$100 review fee for this notification. Make checks payable to the department's Air Pollution Control Program or the appropriate local agency.

1. First-time notices = "Original." Amended projects = "Revision." Notice of cancellation = "Cancelled."
2. In the event that no asbestos removal was necessary, indicate "N/A" for asbestos removal contractor.
3. Indicate the type of project.
4. Mark the "YES" box if asbestos is present. In the next box, indicate what types of asbestos materials are present. Mark the "NO" box if no asbestos is present.
5. Failure to complete this section will result in an unapproved project. Include building uses, sizes and age. If you do not know the exact information, give your best estimate.
6. All regulated structures must be inspected by a certified asbestos inspector prior to renovation or demolition. Typically: "Certified asbestos inspector, with sample analysis by PLM." If other methods were used, explain.
7. All asbestos materials present in the building must be included here. Enter amounts (in ft², linear feet, or ft³) of material to be removed from or left in the building. For example, in the column "Nonfriable asbestos material to be removed," under subcolumn "CAT II" (on the "surface area" line) you might enter "5,200" and "transite" under the number. The inspection report, which must be attached to the notification, should reflect this information.
8. This line must be completed. Never enter a date that is not at least 10 working days after your postmark, unless you have been granted a waiver by the department. **Missouri law requires notifications to be submitted at least 10 working days in advance of the project start date.**
9. If applicable, enter the dates on which abatement will occur or has occurred.
10. Give a brief description of your demolition/renovation plans, including the scope of work to be performed and the methods used to perform the work. Use an additional page if necessary.
11. Describe how any asbestos-containing materials (ACM) involved will be removed prior to demolition/renovation. If ACM will be left in the building, then indicate precautions used to prevent ACM from being made friable. If all asbestos has been removed, "N/A."
12. Identify waste transporter.
13. Identify waste disposal site.
14. Complete this section only for ordered demolitions. Submit the order with the notification. For all others, "N/A."
15. Complete this section only for emergency renovation projects. For all other renovations, indicate "N/A."
16. Indicate what will be done in the event that friable asbestos or suspect materials are unexpectedly encountered.
17. For regulated asbestos abatement or demolition of an unsafe or damaged structure when a prior inspection has not been conducted, a person trained in the requirements of 40 CFR Part 61, Subpart M must be on site to supervise the asbestos abatement. In the event that no asbestos is present or has already been removed, mark "N/A."
18. Always sign and date this line. This form may be signed by the project owner or operator. The project approval letter will be mailed to the person who signs the notification form.

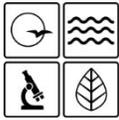
NOTE: For all regulated demolition and renovation projects, always include a complete copy of your asbestos inspection report with the notification form.

Send completed forms to:

Missouri Department of Natural Resources
APCP, Asbestos
PO Box 176
Jefferson City, MO 65102

If using priority mail, send to:

Missouri Department of Natural Resources
APCP, Asbestos
1659 E. Elm St.
Jefferson City, MO 65101



MISSOURI DEPARTMENT OF NATURAL RESOURCES
 AIR POLLUTION CONTROL PROGRAM
**ASBESTOS NESHAP NOTIFICATION OF DEMOLITION
 AND RENOVATION**

FOR OFFICE USE ONLY	
DATE RECEIVED	POSTMARK
CHECK DATE	CHECK NUMBER
CHECK AMOUNT	NOTIFICATION NUMBER

There is a \$100 review fee for this notification. Processing will be delayed if notification is received without payment.

1. TYPE OF NOTIFICATION

O – ORIGINAL C – CANCELLED R – REVISION, WRITE REVISION NUMBER _____

2. FACILITY INFORMATION (IDENTIFY OWNER, REMOVAL CONTRACTOR AND OTHER OPERATOR)

OWNER'S NAME		ADDRESS		
CITY	STATE	ZIP CODE	EMAIL	
CONTACT	TITLE		TELEPHONE NUMBER WITH AREA CODE	
ASBESTOS REMOVAL CONTRACTOR		ADDRESS		
CITY	STATE	ZIP CODE	EMAIL	
CONTACT	TITLE		TELEPHONE NUMBER WITH AREA CODE	
DEMOLITION CONTRACTOR		ADDRESS		
CITY	STATE	ZIP CODE	EMAIL	
CONTACT	TITLE		TELEPHONE NUMBER WITH AREA CODE	

3. TYPE OF OPERATION

D – DEMO O – ORDERED DEMO R – RENOVATION E – EMERGENCY RENOVATION

4. IS ASBESTOS PRESENT?

<input type="checkbox"/> YES <input type="checkbox"/> NO	LIST TYPE(S) OF ASBESTOS MATERIAL TO BE REMOVED
--	---

5. FACILITY DESCRIPTION

BUILDING NAME			
ADDRESS			
CITY	COUNTY	STATE	ZIP CODE
SITE LOCATION			
BUILDING SIZE	NUMBER OF FLOORS	AGE IN YEARS	
PRESENT USE		PRIOR USE	

6. PROCEDURE, INCLUDING ANALYTICAL METHOD, IF APPROPRIATE, USED TO DETECT THE PRESENCE OF ASBESTOS MATERIAL. INCLUDE A COPY OF THE ASBESTOS INSPECTION.

7. APPROXIMATE AMOUNT OF ASBESTOS, INCLUDING: A. REGULATED ACM (RACM) B. CATEGORY I ACM C. CATEGORY II ACM	RACM TO BE REMOVED	NONFRIABLE ASBESTOS MATERIAL TO BE REMOVED		NONFRIABLE ASBESTOS MATERIAL NOT TO BE REMOVED	
		CAT I	CAT II	CAT I	CAT II
PIPES (LINEAR FEET)					
SURFACE AREA (SQUARE FEET)					
VOL. RACM OFF FACILITY COMPONENT (CUBIC FEET)					

8. SCHEDULED DATES DEMO/RENOVATION (MM/DD/YY)			
START:		COMPLETION:	
9. SCHEDULED DATES ASBESTOS REMOVAL (MM/DD/YY)			
START:		COMPLETION:	WEEKDAY WORK HOURS
			WEEKEND WORK HOURS
10. DESCRIPTION OF PLANNED DEMOLITION OR RENOVATION WORK AND METHOD(S) TO BE USED			
11. DESCRIPTION OF WORK PRACTICES AND ENGINEERING CONTROLS TO BE USED TO PREVENT EMISSIONS OF ASBESTOS AT THE DEMOLITION OR RENOVATION SITE.			
12. WASTE TRANSPORTER			
NAME		ADDRESS	
CITY		STATE	ZIP CODE
CONTACT PERSON		TELEPHONE NUMBER WITH AREA CODE	
13. WASTE DISPOSAL SITE			
NAME			
LOCATION			
CITY		STATE	ZIP CODE
TELEPHONE NUMBER WITH AREA CODE			
14. IF DEMOLITION ORDERED BY A GOVERNMENT AGENCY, IDENTIFY THE AGENCY BELOW.			
NAME		TITLE	
AGENCY			
DATE OF ORDER (MM/DD/YY) INCLUDE A COPY OF THE ORDER.		DATE ORDERED TO BEGIN (MM/DD/YY)	
15. FOR EMERGENCY RENOVATIONS			
DATE AND HOUR OF EMERGENCY			
DESCRIPTION OF THE SUDDEN, UNEXPECTED EVENT			
EXPLANATION OF HOW THE EVENT CAUSED UNSAFE CONDITIONS OR WOULD CAUSE EQUIPMENT DAMAGE OR AN UNREASONABLE FINANCIAL BURDEN			
16. DESCRIPTION OF PROCEDURES TO BE FOLLOWED IN THE EVENT THAT UNEXPECTED ASBESTOS IS FOUND OR PREVIOUSLY NONFRIABLE ASBESTOS MATERIAL BECOMES CRUMBLLED, PULVERIZED OR REDUCED TO POWDER.			
17. I CERTIFY THAT AN INDIVIDUAL TRAINED IN THE PROVISIONS OF THIS REGULATION (40 CFR PART 61, SUBPART M) WILL BE ON-SITE DURING THE DEMOLITION OR RENOVATION AND EVIDENCE THAT THE REQUIRED TRAINING HAS BEEN ACCOMPLISHED BY THIS PERSON WILL BE AVAILABLE FOR INSPECTION DURING NORMAL BUSINESS HOURS (REQUIRED 1 YEAR AFTER PROMULGATION).			
SIGNATURE OF OWNER/OPERATOR			DATE
18. I CERTIFY THAT THE ABOVE INFORMATION IS CORRECT.			
SIGNATURE OF OWNER/OPERATOR			DATE



SCI ENGINEERING, INC.

EARTH • SCIENCE • SOLUTIONS

GEOTECHNICAL
ENVIRONMENTAL
NATURAL RESOURCES
CULTURAL RESOURCES
CONSTRUCTION SERVICES

August 21, 2020

Mr. Steve Roth
City of Pacific
300 Hoven Drive
Pacific, Missouri 63069

RE: Asbestos Survey Activities
422 S. Third Street
Pacific, Missouri
SCI No. 2020-0510.20 Task 003

Dear Mr. Roth:

INTRODUCTION

SCI Engineering, Inc. (SCI) is pleased to submit this report of the analytical test results for samples of suspect asbestos-containing materials (ACMs) collected during the survey performed on July 31, 2020. The survey was conducted by Mr. Dan Vielweber, Missouri-Licensed Asbestos Inspector. A copy of Mr. Vielweber's asbestos inspector license is enclosed.

The purpose of this survey was to identify ACMs in accessible areas of the vacant residence addressed at 422 S. Third Street in Pacific, Missouri. This survey is intended to satisfy the requirements for the asbestos National Emission Standard for Hazardous Air Pollutant (NESHAP) for demolition and renovation as well as for Occupational Safety and Health Administration (OSHA) compliance.

The on-site structure is an 860-square-foot vacant single-story residence with detached shed which appeared to have been constructed in the 1960s. The exterior of the structure was vinyl and transite siding with vinyl windows and an asphalt shingle roof. The structure utilized a forced air HVAC system.

LIMITATIONS

SCI's asbestos survey entailed visually assessing accessible areas only. If any other suspect asbestos materials are discovered during demolition or renovation, please contact SCI, and we will make arrangements for assessment of these materials. Areas behind walls, under subfloors and above fixed ceilings are considered non-accessible.

During the course of performing the survey of the structure, SCI was able to access all locations within the structure.

ASBESTOS SURVEY

Twenty-one samples were collected from the on-site structure. These samples were analyzed by Polarized Light Microscopy (PLM). Of the 21 samples analyzed, one was found to contain asbestos.

Analytical test results and chain-of-custody documentation are enclosed. The results of the analysis of all samples are summarized in Table 1.

Table 1 - Summary of Analytical Test Results

Sample Number	Material Location	Material Description	Approx. Quantity	Result	Category
422-001a	Throughout	Drywall System	--	None Detected in Drywall or Joint Compound	--
422-001b				None Detected in Drywall or Joint Compound	
422-001c				None Detected in Drywall or Joint Compound	
422-02	Entry Door Area	9" x 9" Square Pattern Tan Sheet Flooring	--	None Detected in Flooring, Backing or Mastic	--
422-003	Kitchen	Tan Mottle Sheet Flooring	--	None Detected in Flooring, Backing or Mastic	--
422-004a	Kitchen	Tan Floor Tile (under -003)	--	None Detected in Floor Tile or Mastic	--
422-004b				None Detected in Floor Tile or Mastic	
422-004c				None Detected in Floor Tile or Mastic	
422-005a	Exterior	Tar Paper (under -006)	--	None Detected	--
422-005b				None Detected	
422-005c				None Detected	
422-006	Exterior	Transite Siding (under vinyl siding)	1,400 sf	25-30% Chrysotile	NCII
422-007a	Roof	Asphalt Shingles	--	None Detected	--
422-007b				None Detected	
422-007c				None Detected	
422-008a	Shed	Asphalt Shingles	--	None Detected	--
422-008b				None Detected	
422-008c				None Detected	
422-009a	Shed	Asphalt Siding (under metal siding)	--	None Detected	--
422-009b				None Detected	
422-009c				None Detected	

sf - square feet

NCII - Non-Friable Category II Material

DEMOLITION/RENOVATION

According to the Missouri Department of Natural Resources (MDNR), any friable or potentially friable ACM equal to or greater than 260 linear feet or 160 square feet is classified as a regulated ACM (RACM) and must be removed prior to demolition or renovation which would significantly damage the material.

The transite siding is a Category II non-friable material and according to the rule outlined above, is not, by definition, an RACM. However, it is the opinion of the MDNR that demolition activities will render this material friable and, therefore, it must be removed prior to demolition. If the transite is removed in an intact state, it may be removed by a contractor with asbestos awareness training. Otherwise, the material should be abated by a licensed abatement contractor.

The Occupational Safety & Health Administration also has regulations (29 CFR Parts 1910 et al, Occupational Exposure to Asbestos, August 10, 1994) regarding removal of asbestos-containing materials which must be followed.

REPORTING

Attached is Missouri Department of Natural Resources' (MDNR) Notification of Demolition and Renovation form, which has been filled out to the extent possible by SCI. The remaining information must be completed by you.

This report, as well as the completed EPA Notification of Demolition and Renovation form, must be submitted to the MDNR as follows:

- Ms. Stephanie Hamilton, MDNR, Air Pollution Control, PO Box 176, Jefferson City, MO, 65102 at asbestosnotifications@dnr.mo.gov.

It should be noted that following submittal of the notification form, there is a ten-day waiting period before demolition, renovation, or abatement activities can begin.

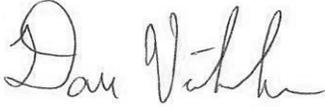
If this report is to be used for bidding purposes for asbestos abatement, SCI recommends the contractor visit the site to verify all conditions and quantities.

SCI appreciates the opportunity to be of service to you on this project, and we look forward to working with you in the future.

Please contact us if you have any questions or comments regarding the information provided.

Respectfully,

SCI ENGINEERING, INC.



Daniel P. Vielweber
Missouri State Certified Asbestos Inspector
Certificate Number 7118092019MOIR20150



Glen A. Grissom
Senior Specialist

DPV/GAG/rah

Enclosures

Asbestos NESHAP Notification of Demolition and Renovation
Analytical Test Results and Chain of Custody
Asbestos Inspector Certificate

CERTIFICATION NUMBER:

7011012720MOIR18366

THIS CERTIFIES

Travis S Clayton

HAS COMPLETED THE CERTIFICATION

REQUIREMENTS FOR

Inspector



APPROVED: **02/25/2020**

EXPIRES: **02/25/2021**

TRAINING DATE: **01/27/2020**

A handwritten signature in blue ink, appearing to read "James A. Byher".

Director of Air Pollution Control Program

CERTIFICATION NUMBER:

7118092019MOIR20150

THIS CERTIFIES

Daniel Vielweber

HAS COMPLETED THE CERTIFICATION

REQUIREMENTS FOR

Inspector



APPROVED: **09/27/2019**

TRAINING DATE: **09/20/2019**

EXPIRES: **09/27/2020**

Director of Air Pollution Control Program

The holder of this card is certified to conduct the specified occupation in conjunction with an asbestos abatement project under the certification requirements, in RSMo, 10 CSR 10-6.250.

It is unlawful for any person to use this card other than the individual to whom it is issued or in any manner inconsistent with the law.

Violations of Missouri State Rule 10 CSR 10-6.080, "Emission Standards for Hazardous Air Pollutants," which adopts by reference 40 CFR, Part 61, Subpart M, the "National Emission Standards for Asbestos," are subject to fines of not more than \$10,000 per day per violation. This Missouri State Certification is subject to review and the director may deny, suspend or revoke this certification per RSMo, chapter 643.230.

If found, please return to:



MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

Air Pollution Control Program

P.O. Box 176

Jefferson City, MO 65102

Phone: (573)751-4817 Fax: (573)751-2706

www.dnr.mo.gov/env/apcp



PRECISION ANALYSIS, INC.

BULK SAMPLE ANALYSIS

Client: SCI Engineering, Inc.

Date Received: 08-03-20

Project No.: 2020-0510.20

Project Name: City of Pacific ACM Surveys

Date Reported: 08-04-20

**Technique: Polarized Light Microscopy with Dispersion Staining
In accordance with EPA/600/R-93/116 Test Method**

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
396973	1a Drywall	None Detected	Cellulose	Binders
396974	1b Drywall	None Detected	Cellulose	Binders
396975	1c Drywall	None Detected	Cellulose	Binders
396976	1a Joint Compound	None Detected		Binders, Paint, Mica
396977	1b Joint Compound	None Detected		Binders, Paint, Mica
396978	1c Joint Compound	None Detected		Binders, Paint, Mica
396979	2 Backing	None Detected	Cellulose, Glass Wool	Binders, Vinyl Binders
		None Detected in Mastic		Binders
396980	3 Backing	None Detected	Cellulose, Glass Wool	Binders, Vinyl Binders
		None Detected in Mastic		Binders

* The upper detection limit is 100 percent.
The lower detection limit is less than 1 percent.



PRECISION ANALYSIS, INC.

BULK SAMPLE ANALYSIS

Client: SCI Engineering, Inc.
Project No.: 2020-0510.20
Project Name: City of Pacific ACM Surveys

Date Received: 08-03-20

Date Reported: 08-04-20

Technique: Polarized Light Microscopy with Dispersion Staining
In accordance with EPA/600/R-93/116 Test Method

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
396981	4a	None Detected		Binders, Vinyl, Aggregate
		None Detected in Mastic		Binders
396982	4b	None Detected		Binders, Vinyl, Aggregate
		None Detected in Mastic		Binders
396983	4c	None Detected		Binders, Vinyl, Aggregate
		None Detected in Mastic		Binders
396984	5a	None Detected	Cellulose	Black Tar Binders
396985	5b	None Detected	Cellulose	Black Tar Binders
396986	5c	None Detected	Cellulose	Black Tar Binders
396987	6a	25-30% Chrysotile	Antigorite	Binders, Paint, Aggregate
396988	7a	None Detected	Glass Wool	Black Tar Binders, Aggregate
396989	7b	None Detected	Glass Wool	Black Tar Binders, Aggregate
396990	7c	None Detected	Glass Wool	Black Tar Binders, Aggregate

* The upper detection limit is 100 percent.
The lower detection limit is less than 1 percent.



PRECISION ANALYSIS, INC.

BULK SAMPLE ANALYSIS

Client: SCI Engineering, Inc.
Project No.: 2020-0510.20
Project Name: City of Pacific ACM Surveys

Date Received: 08-03-20

Date Reported: 08-04-20

Technique: Polarized Light Microscopy with Dispersion Staining
In accordance with EPA/600/R-93/116 Test Method

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
396991	8a	None Detected	Cellulose	Black Tar Binders, Aggregate
396992	8b	None Detected	Cellulose	Black Tar Binders, Aggregate
396993	8c	None Detected	Cellulose	Black Tar Binders, Aggregate
396994	9a	None Detected	Cellulose	Black Tar Binders, Aggregate
396995	9b	None Detected	Cellulose	Black Tar Binders, Aggregate
396996	9c	None Detected	Cellulose	Black Tar Binders, Aggregate

* The upper detection limit is 100 percent.
The lower detection limit is less than 1 percent.

Paul Spell
Laboratory Director

AIHA Bulk Asbestos Proficiency Analytical Testing Program ID # 101228
In Association with RTI Center for Measurements and Quality Assurance

PLM is not recommended for analysis of vinyl floor tile. Vinyl floor tile often contains milled asbestos with fiber lengths of 1 micrometer or less. Because these fibers are not detected by PLM, PLM analysis may yield a false negative result. We recommend qualitative analysis of vinyl floor tile by Transmission Electron Microscopy (TEM).

Precision Analysis assumes no responsibility for financial or health consequences for action or lack of action taken by our clients or their agents as a result of these analytical reports. Since Precision Analysis was not involved in the collection of these samples, we cannot attest to the proper collection of said samples and therefore are neither responsible nor liable for the accuracy, validity or completeness of the sample collection.

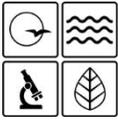


BULK ASBESTOS CHAIN OF CUSTODY

130 Point West Boulevard
St. Charles, Missouri 63301
636-949-8200 Fax 636-949-8269
www.sciengineering.com

Company : SCI Engineering, Inc.			Please Provide Results Via: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail		
Street: 130 Point West Boulevard			To: Glen Grissom		
City/State/Zip: St. Charles, Missouri 63301			Telephone #: 636-949-8200 Fax #: 636-949-8269		
Project Name: City of Pacific ACM Surveys			Email: qgrissom@sciengineering.com		
Project Number: 2020-0510.20					
Turnaround Time (TAT) Options - Please Check One					
<input type="checkbox"/> 3 Hour	<input type="checkbox"/> 6 Hour	<input type="checkbox"/> 24 Hour	<input type="checkbox"/> 48 Hour	<input type="checkbox"/> 72 Hour	<input type="checkbox"/> 96 Hour
PLM Bulk Analysis			TEM Bulk Analysis		
<input checked="" type="checkbox"/> PLM-EPA 600 <input type="checkbox"/> PLM-EPA 600 NOB <input type="checkbox"/> PLM-Point Count			<input type="checkbox"/> TEM EPA NOB - EPA 600/R-93/116 Section 2.5.5.1 <input type="checkbox"/> Chatfield Protocol (semi-quantitative)		
<input checked="" type="checkbox"/> Check Box for Stop Positive					
Comments: 422 S. Third St.					
Samplers Name: Dan Vielweber			Samplers Signature:		Date Sampled: 7-31-20
Building Use/Description/Features: Residence				Age:	Size:
Windows: Vinyl	siding: Vinyl/Transite	Roof: Asphalt Shingle	Attic:	HVAC: Forced Air	
Sample #	Material Location	Material Description	Approx. Quantity	Condition	Comments
422-001ABC	Throughout	Drywall Systems		Good	
422-002	Entry Door Area	9x9 Tan Square Sheet Flooring		Good	
422-003	Kitchen	Tan Mottled Sheet Flooring		Good	
422-004ABC	Kitchen	Tan Floor Tile		Good	Under 3
422-005ABC	Exterior	Tar Paper		Good	Under 6
422-006	Exterior	Transite Siding		Good	Under Vinyl Siding
422-007ABC	Roof	Asphalt Shingle		Good	
422-008ABC	Shed	Asphalt Shingle		Good	
422-009ABC	Shed	Asphalt Siding		Good	Under Metal Siding
Relinquished:		Date: 7-31-20	Time: 1545		
Received:		Date:	Time:		

RECEIVED
 AUG 03 RECD
 BY: _____



ASBESTOS NESHAP NOTIFICATION OF DEMOLITION AND RENOVATION

GENERAL INSTRUCTIONS

NOTE: There is a \$100 review fee for this notification. Make checks payable to the department's Air Pollution Control Program or the appropriate local agency.

1. First-time notices = "Original." Amended projects = "Revision." Notice of cancellation = "Cancelled."
2. In the event that no asbestos removal was necessary, indicate "N/A" for asbestos removal contractor.
3. Indicate the type of project.
4. Mark the "YES" box if asbestos is present. In the next box, indicate what types of asbestos materials are present. Mark the "NO" box if no asbestos is present.
5. Failure to complete this section will result in an unapproved project. Include building uses, sizes and age. If you do not know the exact information, give your best estimate.
6. All regulated structures must be inspected by a certified asbestos inspector prior to renovation or demolition. Typically: "Certified asbestos inspector, with sample analysis by PLM." If other methods were used, explain.
7. All asbestos materials present in the building must be included here. Enter amounts (in ft², linear feet, or ft³) of material to be removed from or left in the building. For example, in the column "Nonfriable asbestos material to be removed," under subcolumn "CAT II" (on the "surface area" line) you might enter "5,200" and "transite" under the number. The inspection report, which must be attached to the notification, should reflect this information.
8. This line must be completed. Never enter a date that is not at least 10 working days after your postmark, unless you have been granted a waiver by the department. **Missouri law requires notifications to be submitted at least 10 working days in advance of the project start date.**
9. If applicable, enter the dates on which abatement will occur or has occurred.
10. Give a brief description of your demolition/renovation plans, including the scope of work to be performed and the methods used to perform the work. Use an additional page if necessary.
11. Describe how any asbestos-containing materials (ACM) involved will be removed prior to demolition/renovation. If ACM will be left in the building, then indicate precautions used to prevent ACM from being made friable. If all asbestos has been removed, "N/A."
12. Identify waste transporter.
13. Identify waste disposal site.
14. Complete this section only for ordered demolitions. Submit the order with the notification. For all others, "N/A."
15. Complete this section only for emergency renovation projects. For all other renovations, indicate "N/A."
16. Indicate what will be done in the event that friable asbestos or suspect materials are unexpectedly encountered.
17. For regulated asbestos abatement or demolition of an unsafe or damaged structure when a prior inspection has not been conducted, a person trained in the requirements of 40 CFR Part 61, Subpart M must be on site to supervise the asbestos abatement. In the event that no asbestos is present or has already been removed, mark "N/A."
18. Always sign and date this line. This form may be signed by the project owner or operator. The project approval letter will be mailed to the person who signs the notification form.

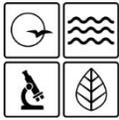
NOTE: For all regulated demolition and renovation projects, always include a complete copy of your asbestos inspection report with the notification form.

Send completed forms to:

Missouri Department of Natural Resources
APCP, Asbestos
PO Box 176
Jefferson City, MO 65102

If using priority mail, send to:

Missouri Department of Natural Resources
APCP, Asbestos
1659 E. Elm St.
Jefferson City, MO 65101



MISSOURI DEPARTMENT OF NATURAL RESOURCES
 AIR POLLUTION CONTROL PROGRAM
**ASBESTOS NESHAP NOTIFICATION OF DEMOLITION
 AND RENOVATION**

FOR OFFICE USE ONLY	
DATE RECEIVED	POSTMARK
CHECK DATE	CHECK NUMBER
CHECK AMOUNT	NOTIFICATION NUMBER

There is a \$100 review fee for this notification. Processing will be delayed if notification is received without payment.

1. TYPE OF NOTIFICATION

O – ORIGINAL C – CANCELLED R – REVISION, WRITE REVISION NUMBER _____

2. FACILITY INFORMATION (IDENTIFY OWNER, REMOVAL CONTRACTOR AND OTHER OPERATOR)

OWNER'S NAME		ADDRESS		
CITY	STATE	ZIP CODE	EMAIL	
CONTACT	TITLE		TELEPHONE NUMBER WITH AREA CODE	
ASBESTOS REMOVAL CONTRACTOR		ADDRESS		
CITY	STATE	ZIP CODE	EMAIL	
CONTACT	TITLE		TELEPHONE NUMBER WITH AREA CODE	
DEMOLITION CONTRACTOR		ADDRESS		
CITY	STATE	ZIP CODE	EMAIL	
CONTACT	TITLE		TELEPHONE NUMBER WITH AREA CODE	

3. TYPE OF OPERATION

D – DEMO O – ORDERED DEMO R – RENOVATION E – EMERGENCY RENOVATION

4. IS ASBESTOS PRESENT?

<input type="checkbox"/> YES <input type="checkbox"/> NO	LIST TYPE(S) OF ASBESTOS MATERIAL TO BE REMOVED
--	---

5. FACILITY DESCRIPTION

BUILDING NAME			
ADDRESS			
CITY	COUNTY	STATE	ZIP CODE
SITE LOCATION			
BUILDING SIZE	NUMBER OF FLOORS	AGE IN YEARS	
PRESENT USE		PRIOR USE	

6. PROCEDURE, INCLUDING ANALYTICAL METHOD, IF APPROPRIATE, USED TO DETECT THE PRESENCE OF ASBESTOS MATERIAL. INCLUDE A COPY OF THE ASBESTOS INSPECTION.

7. APPROXIMATE AMOUNT OF ASBESTOS, INCLUDING:

	RACM TO BE REMOVED	NONFRIABLE ASBESTOS MATERIAL TO BE REMOVED		NONFRIABLE ASBESTOS MATERIAL NOT TO BE REMOVED	
		CAT I	CAT II	CAT I	CAT II
PIPES (LINEAR FEET)					
SURFACE AREA (SQUARE FEET)					
VOL. RACM OFF FACILITY COMPONENT (CUBIC FEET)					

8. SCHEDULED DATES DEMO/RENOVATION (MM/DD/YY)			
START:		COMPLETION:	
9. SCHEDULED DATES ASBESTOS REMOVAL (MM/DD/YY)			
START:		COMPLETION:	WEEKDAY WORK HOURS
			WEEKEND WORK HOURS
10. DESCRIPTION OF PLANNED DEMOLITION OR RENOVATION WORK AND METHOD(S) TO BE USED			
11. DESCRIPTION OF WORK PRACTICES AND ENGINEERING CONTROLS TO BE USED TO PREVENT EMISSIONS OF ASBESTOS AT THE DEMOLITION OR RENOVATION SITE.			
12. WASTE TRANSPORTER			
NAME		ADDRESS	
CITY		STATE	ZIP CODE
CONTACT PERSON		TELEPHONE NUMBER WITH AREA CODE	
13. WASTE DISPOSAL SITE			
NAME			
LOCATION			
CITY		STATE	ZIP CODE
TELEPHONE NUMBER WITH AREA CODE			
14. IF DEMOLITION ORDERED BY A GOVERNMENT AGENCY, IDENTIFY THE AGENCY BELOW.			
NAME		TITLE	
AGENCY			
DATE OF ORDER (MM/DD/YY) INCLUDE A COPY OF THE ORDER.		DATE ORDERED TO BEGIN (MM/DD/YY)	
15. FOR EMERGENCY RENOVATIONS			
DATE AND HOUR OF EMERGENCY			
DESCRIPTION OF THE SUDDEN, UNEXPECTED EVENT			
EXPLANATION OF HOW THE EVENT CAUSED UNSAFE CONDITIONS OR WOULD CAUSE EQUIPMENT DAMAGE OR AN UNREASONABLE FINANCIAL BURDEN			
16. DESCRIPTION OF PROCEDURES TO BE FOLLOWED IN THE EVENT THAT UNEXPECTED ASBESTOS IS FOUND OR PREVIOUSLY NONFRIABLE ASBESTOS MATERIAL BECOMES CRUMBLLED, PULVERIZED OR REDUCED TO POWDER.			
17. I CERTIFY THAT AN INDIVIDUAL TRAINED IN THE PROVISIONS OF THIS REGULATION (40 CFR PART 61, SUBPART M) WILL BE ON-SITE DURING THE DEMOLITION OR RENOVATION AND EVIDENCE THAT THE REQUIRED TRAINING HAS BEEN ACCOMPLISHED BY THIS PERSON WILL BE AVAILABLE FOR INSPECTION DURING NORMAL BUSINESS HOURS (REQUIRED 1 YEAR AFTER PROMULGATION).			
SIGNATURE OF OWNER/OPERATOR			DATE
18. I CERTIFY THAT THE ABOVE INFORMATION IS CORRECT.			
SIGNATURE OF OWNER/OPERATOR			DATE



SCI ENGINEERING, INC.

EARTH • SCIENCE • SOLUTIONS

GEOTECHNICAL
ENVIRONMENTAL
NATURAL RESOURCES
CULTURAL RESOURCES
CONSTRUCTION SERVICES

August 21, 2020

Mr. Steve Roth
City of Pacific
300 Hoven Drive
Pacific, Missouri 63069

RE: Asbestos Survey Activities
526 S. First Street
Pacific, Missouri
SCI No. 2020-0510.20 Task 009

Dear Mr. Roth:

INTRODUCTION

SCI Engineering, Inc. (SCI) is pleased to submit this report of the analytical test results for samples of suspect asbestos-containing materials (ACMs) collected during the survey performed on August 6, 2020. The survey was conducted by Mr. Dan Vielweber and Mr. Travis Clayton, Missouri-Licensed Asbestos Inspectors. A copy of the asbestos inspector licenses is enclosed.

The purpose of this survey was to identify ACMs in accessible areas of the vacant residence addressed as 526 S. First Street in Pacific, Missouri. This survey is intended to satisfy the requirements for the asbestos National Emission Standard for Hazardous Air Pollutant (NESHAP) for demolition and renovation. It is not intended to be used for Occupational Safety and Health Administration (OSHA) compliance.

The on-site structure is a 2,500-square-foot vacant, single-story residence with a partial basement which appeared to be constructed in the 1960s. The exterior of the structure was vinyl over transite siding with wood and vinyl windows, and an asphalt shingle roof. The structure utilized a forced air HVAC system.

LIMITATIONS

SCI's asbestos survey entailed visually assessing accessible areas only. If any other suspect asbestos materials are discovered during demolition or renovation, please contact SCI, and we will make arrangements for assessment of these materials. Areas behind walls, under subfloors and above fixed ceilings are considered non-accessible.

During the course of performing the survey of the structure, SCI was able to access all locations within the structure.

ASBESTOS SURVEY

Twenty-nine samples were collected from the on-site structure. Of these 29 samples, 27 were analyzed using a positive stop procedure. These samples were analyzed by Polarized Light Microscopy (PLM).

Of the 27 samples analyzed, nine were found to contain asbestos. Analytical test results and chain-of-custody documentation are enclosed. The results of the analysis of all samples are summarized in Table 1.

Table 1 - Summary of Analytical Test Results

Sample Number	Material Location	Material Description	Approx. Quantity	Result	Category
526-001a	Kitchen, Bathroom	Square Pattern Sheet Flooring (on wood)	550 sf	85-90% Chrysotile in Backing; None Detected in Flooring or Mastic	Friable
526-001b				85-90% Chrysotile in Backing; None Detected in Flooring or Mastic	
526-001c				85-90% Chrysotile in Backing; None Detected in Flooring or Mastic	
526-002a	Basement	Black Vibration Joint Cloth	4 sf	None Detected	--
526-002b				None Detected	
526-002c				None Detected	
526-003	Basement	Duct Tape	15 lf	85-90% Chrysotile	Friable
526-004a	Exterior	Tar Paper (under 526-008)	2,160 sf	None Detected	--
526-004b				None Detected	
526-004c				None Detected	
526-005a	Walls and Ceilings, Except Bathroom/Basem ent Stair Well	Drywall System	--	None Detected in Drywall or Joint Compound	--
526-005b				None Detected in Drywall or Joint Compound	
526-005c				None Detected in Drywall or Joint Compound	
526-006a	Entry	Sheet Flooring- Octagon (on wood)	25 sf	85-90% Chrysotile in Backing; None Detected in Flooring or Mastic	Friable
526-006b				85-90% Chrysotile in Backing; None Detected in Flooring or Mastic	
526-006c				85-90% Chrysotile in Backing; None Detected in Flooring or Mastic	
526-007a	North Bedroom	Ceiling Texture	225 sf	None Detected	--
526-007b				None Detected	
526-007c				None Detected	
526-008a	Exterior	Transite Siding	2,160 sf	25-30% Chrysotile	NCII
526-009a	Bathroom/ Stairwell Walls/ Ceiling	Plaster	--	None Detected in Skim Coat or Plaster	--
526-009b				None Detected in Skim Coat or Plaster	
526-009c				None Detected in Skim Coat or Plaster	
526-010a	Exterior Windows	Glaze	350 lf	5-10% Chrysotile	NCII
526-010b				Not Analyzed due to Positive Stop	

Sample Number	Material Location	Material Description	Approx. Quantity	Result	Category
526-010c				Not Analyzed due to Positive Stop	
526-011a	Roof	Asphalt Shingles	3,125 sf	None Detected	--
526-011b				None Detected	
526-011c				None Detected	
526-012a	Attic	Vermiculite Insulation	2,500 sf	<0.25% Tremolite	Non-ACM
526-012b				<0.25% Tremolite	
526-012c				0.25 Tremolite	

sf - square feet

lf - linear feet

NCII - Non-Friable Category II Material

DEMOLITION/RENOVATION

According to the Missouri Department of Natural Resources (MDNR), any friable or potentially friable ACM equal to or greater than 260 linear feet or 160 square feet is classified as a regulated ACM (RACM) and must be removed prior to demolition or renovation which would significantly damage the material.

The duct tape and sheet flooring backing are friable materials and exceed the minimum quantity requirements. These materials, therefore, must be removed from the structure prior to demolition.

The transite siding is a Category II non-friable materials and according to the rule outlined above, is not, by definition, RACMs. However, it is the opinion of the MDNR that demolition activities will render the transite friable and, therefore, it must be removed prior to demolition. If the transite is removed in an intact state, it may be removed by a contractor with asbestos awareness training. Otherwise, the material should be abated by a licensed abatement contractor.

The window glaze is a Category II non-friable materials and according to the rule outlined above, is not, by definition, an RACM. It is the opinion of the MDNR that demolition activities will not render the glaze friable and, therefore, it is not required to be removed prior to demolition.

The vermiculite attic insulation was found to contain less than one percent asbestos and, according to the NESHAP rule, is not considered an ACM. As such, the material is not required to be removed from the structure prior to machine demolition. If manual demolition or renovation is required, this material should be removed prior to activities which will impact the material.

The Occupational Safety & Health Administration also has regulations (29 CFR Parts 1910 et al, Occupational Exposure to Asbestos, August 10, 1994) regarding removal of asbestos-containing materials which must be followed.

REPORTING

Attached is Missouri Department of Natural Resources' (MDNR) Notification of Demolition and Renovation form, which has been filled out to the extent possible by SCI. The remaining information must be completed by you.

This report, as well as the completed EPA Notification of Demolition and Renovation form, must be submitted to the MDNR as follows:

- Ms. Stephanie Hamilton, MDNR, Air Pollution Control, PO Box 176, Jefferson City, MO, 65102 at asbestosnotifications@dnr.mo.gov.

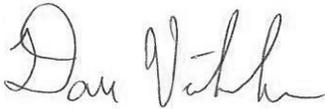
It should be noted that following submittal of the notification form, there is a ten-day waiting period before demolition, renovation, or abatement activities can begin.

If this report is to be used for bidding purposes for asbestos abatement, SCI recommends the contractor visit the site to verify all conditions and quantities.

SCI appreciates the opportunity to be of service to you on this project, and we look forward to working with you in the future. Please contact us if you have any questions or comments regarding the information provided.

Respectfully,

SCI ENGINEERING, INC.



Daniel P. Vielweber
Missouri State Certified Asbestos Inspector
Certificate Number 7118092019MOIR20150



Glen A. Grissom
Senior Specialist

DPV/GAG/rah

Enclosures

Asbestos NESHAP Notification of Demolition and Renovation
Analytical Test Results and Chain of Custody
Asbestos Inspector Certificate

CERTIFICATION NUMBER:

7011012720MOIR18366

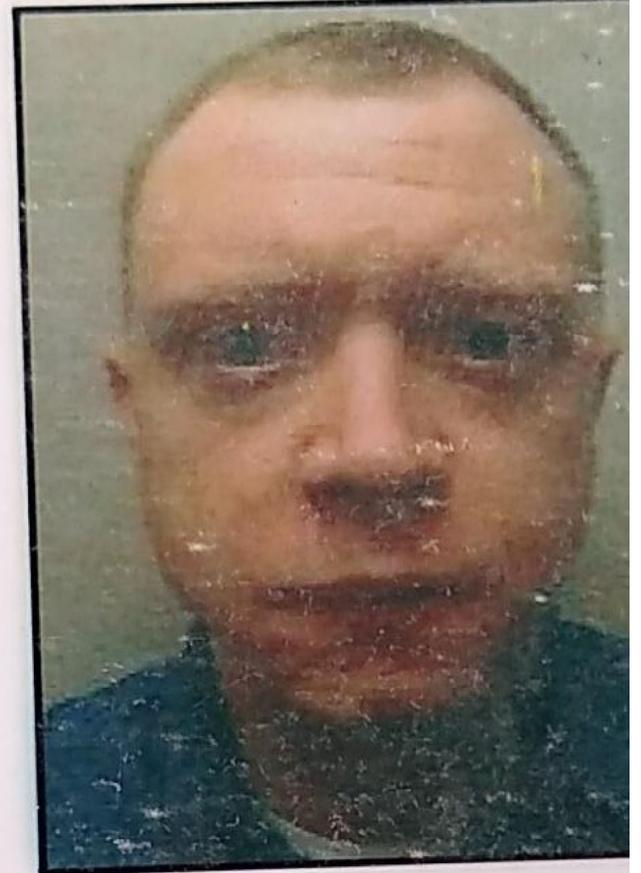
THIS CERTIFIES

Travis S Clayton

HAS COMPLETED THE CERTIFICATION

REQUIREMENTS FOR

Inspector



APPROVED: **02/25/2020**

EXPIRES: **02/25/2021**

TRAINING DATE: **01/27/2020**

A handwritten signature in blue ink, which appears to read "James A. Byher".

Director of Air Pollution Control Program

CERTIFICATION NUMBER:

7118092019MOIR20150

THIS CERTIFIES

Daniel Vielweber

HAS COMPLETED THE CERTIFICATION

REQUIREMENTS FOR

Inspector



APPROVED: **09/27/2019**

TRAINING DATE: **09/20/2019**

EXPIRES: **09/27/2020**

Director of Air Pollution Control Program

The holder of this card is certified to conduct the specified occupation in conjunction with an asbestos abatement project under the certification requirements, in RSMo, 10 CSR 10-6.250.

It is unlawful for any person to use this card other than the individual to whom it is issued or in any manner inconsistent with the law.

Violations of Missouri State Rule 10 CSR 10-6.080, "Emission Standards for Hazardous Air Pollutants," which adopts by reference 40 CFR, Part 61, Subpart M, the "National Emission Standards for Asbestos," are subject to fines of not more than \$10,000 per day per violation. This Missouri State Certification is subject to review and the director may deny, suspend or revoke this certification per RSMo, chapter 643.230.

If found, please return to:



MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

Air Pollution Control Program

P.O. Box 176

Jefferson City, MO 65102

Phone: (573)751-4817 Fax: (573)751-2706

www.dnr.mo.gov/env/apcp



**PRECISION
ANALYSIS, INC.**
BULK SAMPLE ANALYSIS

Client: SCI Engineering, Inc.
Project No.: 2020-0510.20
Project Name: City of Pacific ACM Survey

Date Received: 08-10-20

Date Reported: 08-11-20

**Technique: Polarized Light Microscopy with Dispersion Staining
In accordance with EPA/600/R-93/116 Test Method**

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
397667	526-1a	None Detected		Binders, Vinyl
	Backing	85-90% Chrysotile	Antigorite	Binders
		None Detected in Mastic		Binders
397668	526-1b	None Detected		Binders, Vinyl
	Backing	85-90% Chrysotile	Antigorite	Binders
		None Detected in Mastic		Binders
397669	526-1c	None Detected		Binders, Vinyl
	Backing	85-90% Chrysotile	Antigorite	Binders
		None Detected in Mastic		Binders
397670	526-2a	None Detected	Synthetic Fibers	Binders, Vinyl
397671	526-2b	None Detected	Synthetic Fibers	Binders, Vinyl
397672	526-2c	None Detected	Synthetic Fibers	Binders, Vinyl
397673	526-3a	85-90% Chrysotile	Antigorite	Binders
397674	526-4a	None Detected	Cellulose	Black Tar Binders
397675	526-4b	None Detected	Cellulose	Black Tar Binders
397676	526-4c	None Detected	Cellulose	Black Tar Binders

* The upper detection limit is 100 percent.
The lower detection limit is less than 1 percent.



**PRECISION
ANALYSIS, INC.**
BULK SAMPLE ANALYSIS

Client: SCI Engineering, Inc.
Project No.: 2020-0510.20
Project Name: City of Pacific ACM Survey

Date Received: 08-10-20

Date Reported: 08-11-20

**Technique: Polarized Light Microscopy with Dispersion Staining
In accordance with EPA/600/R-93/116 Test Method**

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
397677	526-5a Drywall	None Detected	Cellulose	Binders
397678	526-5b Drywall	None Detected	Cellulose	Binders
397679	526-5c Drywall	None Detected	Cellulose	Binders
397680	526-5a Joint Compound	None Detected		Binders, Paint, Mica
397681	526-5b Joint Compound	None Detected		Binders, Paint, Mica
397682	526-5c Joint Compound	None Detected		Binders, Paint, Mica
397683	526-6a Backing	None Detected 85-90% Chrysotile	Antigorite	Binders, Vinyl Binders
		None Detected in Mastic		Binders
397684	526-6b Backing	None Detected 85-90% Chrysotile	Antigorite	Binders, Vinyl Binders
		None Detected in Mastic		Binders

* The upper detection limit is 100 percent.
The lower detection limit is less than 1 percent.



**PRECISION
ANALYSIS, INC.**
BULK SAMPLE ANALYSIS

Client: SCI Engineering, Inc.
Project No.: 2020-0510.20
Project Name: City of Pacific ACM Survey

Date Received: 08-10-20

Date Reported: 08-11-20

**Technique: Polarized Light Microscopy with Dispersion Staining
In accordance with EPA/600/R-93/116 Test Method**

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
397685	526-6c	None Detected		Binders, Vinyl
	Backing	85-90% Chrysotile	Antigorite	Binders
		None Detected in Mastic		Binders
397686	526-7a	None Detected		Binders, Polyfoam, Paint
397687	526-7b	None Detected		Binders, Polyfoam, Paint
397688	526-7c	None Detected		Binders, Polyfoam, Paint
397689	526-8a	25-30% Chrysotile	Antigorite	Binders, Paint, Aggregate
397690	526-9a Skim Coat	None Detected		Binders, Paint, Aggregate
397691	526-9b Skim Coat	None Detected		Binders, Paint, Aggregate
397692	526-9c Skim Coat	None Detected		Binders, Paint, Aggregate
397693	526-9a Plaster	None Detected		Binders, Polyfoam, Aggregate
397694	526-9b Plaster	None Detected		Binders, Polyfoam, Aggregate

* The upper detection limit is 100 percent.
The lower detection limit is less than 1 percent.



**PRECISION
ANALYSIS, INC.**
BULK SAMPLE ANALYSIS

Client: SCI Engineering, Inc.
Project No.: 2020-0510.20
Project Name: City of Pacific ACM Survey

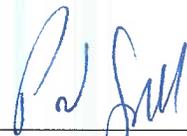
Date Received: 08-10-20

Date Reported: 08-11-20

**Technique: Polarized Light Microscopy with Dispersion Staining
In accordance with EPA/600/R-93/116 Test Method**

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
397695	526-9c Plaster	None Detected		Binders, Polyfoam, Aggregate
397696	526-10a	5-10% Chrysotile		Binders, Paint
397697	526-11a	None Detected	Glass Wool	Black Tar Binders, Aggregate
397698	526-11b	None Detected	Glass Wool	Black Tar Binders, Aggregate
397699	526-11c	None Detected	Glass Wool	Black Tar Binders, Aggregate

* The upper detection limit is 100 percent.
The lower detection limit is less than 1 percent.



Paul Spell

Laboratory Director

AIHA Bulk Asbestos Proficiency Analytical Testing Program ID # 101228
In Association with RTI Center for Measurements and Quality Assurance

PLM is not recommended for analysis of vinyl floor tile. Vinyl floor tile often contains milled asbestos with fiber lengths of 1 micrometer or less. Because these fibers are not detected by PLM, PLM analysis may yield a false negative result. We recommend qualitative analysis of vinyl floor tile by Transmission Electron Microscopy (TEM).

Precision Analysis assumes no responsibility for financial or health consequences for action or lack of action taken by our clients or their agents as a result of these analytical reports. Since Precision Analysis was not involved in the collection of these samples, we cannot attest to the proper collection of said samples and therefore are neither responsible nor liable for the accuracy, validity or completeness of the sample collection.



BULK ASBESTOS CHAIN OF CUSTODY

130 Point West Boulevard
St. Charles, Missouri 63301
636-949-8200 Fax 636-949-8269
www.sciengineering.com

Company: SCI Engineering, Inc.		Please Provide Results Via: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail			
Street: 130 Point West Boulevard		To: <u>Travis Clayton</u>			
City/State/Zip: St. Charles, Missouri 63301		Telephone #: <u>618-206-3049</u> Fax #: 636-949-8269			
Project Name: <u>City of Pacific AEM Surveys</u>		Email: <u>trclayton@sciengineering.com</u>			
Project Number: <u>2020-0526.20</u>					
Turnaround Time (TAT) Options - Please Check One					
<input type="checkbox"/> 3 Hour	<input type="checkbox"/> 6 Hour	<input type="checkbox"/> 24 Hour	<input type="checkbox"/> 48 Hour		
<input type="checkbox"/> 72 Hour	<input type="checkbox"/> 96 Hour	<input checked="" type="checkbox"/> Other <u>5-Day</u>			
PLM Bulk Analysis		TEM Bulk Analysis			
<input checked="" type="checkbox"/> PLM-EPA 600 <input type="checkbox"/> PLM-EPA 600 NOB <input type="checkbox"/> PLM-Point Count		<input type="checkbox"/> TEM EPA NOB - EPA 600/R-93/116 Section 2.5.5.1 <input type="checkbox"/> Chatfield Protocol (semi-quantitative)			
<input checked="" type="checkbox"/> Check Box for Stop Positive					
Comments: <u>Address: 526 S. 1st street</u>					
Samplers Name: <u>T. Clayton/D. Vidwischer</u>		Samplers Signature:	Date Sampled: <u>8/6/2020</u>		
Building Use/Description/Features: <u>Vacant Single-Story Residence with partial basement</u>		Age: <u>~ 60 years</u>	Size: <u>2,500 sq ft</u>		
Windows: <u>Wood/Metal</u>	Siding: <u>Vinyl Over Transite</u>	Roof: <u>Asphalt Shingle</u>	Attic: <u>Vermiculite</u>		
			HVAC: <u>Forced Air</u>		
Sample #	Material Location	Material Description	Approx. Quantity	Condition	Comments
526-001A/B/C	Kitchen + Bath	Square Pattern Sheet Flooring	550 sf	Good	On Wood
526-002A,B,C	Basement	Black Vibration Joint Cloth	4 sf	Good	
526-003	Basement	Duct Tape	15 lf	Good	
526-004A,B,C	Exterior	Tar Paper	2,160 sf	Good	Under 526-008
526-005 A,B,C	Walls + Ceilings, Except -005	Drywall System	-	Good	
526-006A,B,C	Entry	Sheet Flooring - Octagon	25 sf	Good	On Wood
526-007A,B,C	North Bedroom	Ceiling Texture	225 sf	Good	
526-008A,B,C	Exterior	Transite Siding	2,160 sf	Good	
526-009A,B,C	Bathroom/Stairwell Walls/Ceiling	Plaster	-	Good	
Relinquished:		Date: <u>8/7/2020</u>	Time: <u>1500</u>		
Received:		Date:	Time:		

RECEIVED
 AUG 10 REC'D
 1 of 1
 BY: _____



The Identification Specialists

Analysis Report
prepared for
SCI Engineering Inc

Report Date: 8/18/2020

Project Name: City Of Pacific ACM Surveys

Project #: 2020-0510.20

SanAir ID#: 20044775



NVLAP LAB CODE 200870-0

1551 Oakbridge Dr. Suite B | Powhatan, Virginia 23139-8061
888.895.1177 | 804.897.1177 | fax: 804.897.0070 | IAQ@SanAir.com | SanAir.com



SanAir ID Number
20044775
FINAL REPORT
8/18/2020 3:09:11 PM

Name: SCI Engineering Inc
Address: 130 Point West Blvd
St Charles, MO 63301
Phone: 636-757-1034

Project Number: 2020-0510.20
P.O. Number: 2020-0510.20
Project Name: City Of Pacific ACM Surveys
Collected Date: 8/6/2020
Received Date: 8/11/2020 11:20:00 AM

Dear Travis Clayton,

We at SanAir would like to thank you for the work you recently submitted. The 3 sample(s) were received on Tuesday, August 11, 2020 via FedEx. The final report(s) is enclosed for the following sample(s): 526-012A, 526-012B, 526-012C.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

A handwritten signature in black ink that reads "Sandra Sobrino".

Sandra Sobrino
Asbestos & Materials Laboratory Manager
SanAir Technologies Laboratory

Final Report Includes:

- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

Sample conditions:

- 3 samples in Good condition.



SanAir ID Number
20044775
FINAL REPORT
8/18/2020 3:09:11 PM

Name: SCI Engineering Inc
Address: 130 Point West Blvd
St Charles, MO 63301
Phone: 636-757-1034

Project Number: 2020-0510.20
P.O. Number: 2020-0510.20
Project Name: City Of Pacific ACM Surveys
Collected Date: 8/6/2020
Received Date: 8/11/2020 11:20:00 AM

Analyst: Moore, Brandi

Asbestos Soil/Vermiculite PLM CARB 435 (LOD 0.25%)

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
526-012A / 20044775-001 Vermiculite Attic Insulation	Gold Non-Fibrous Heterogeneous		100% Other	< 0.25% Tremolite
526-012B / 20044775-002 Vermiculite Attic Insulation	Gold Non-Fibrous Heterogeneous		100% Other	< 0.25% Tremolite
526-012C / 20044775-003 Vermiculite Attic Insulation	Gold Non-Fibrous Heterogeneous		99.75% Other	0.25% Tremolite

Analyst: *Brandi Moore*

Approved Signatory: *Johnathan Wilson*

Analysis Date: 8/18/2020

Date: 8/18/2020

Disclaimer

The final report cannot be reproduced, except in full, without written authorization from SanAir. Fibers smaller than 5 microns cannot be seen with this method due to scope limitations. The accuracy of the results is dependent upon the client's sampling procedure and information provided to the laboratory by the client. SanAir assumes no responsibility for the sampling procedure and will provide evaluation reports based solely on the sample and information provided by the client. This report may not be used by the client to claim product endorsement by NVLAP, AIHA or any other agency of the U.S. government; *and may not be certified by every local, state and federal regulatory agencies.*



1551 Oakbridge Dr. STE B
 Powhatan, VA 23139
 804.897.1177 / 888.895.1177
 Fax 804.897.0070
sanair.com

**Asbestos
 Chain of Custody**
 Form 140, Rev 3, 8/28/19

SanAir ID Number
20044775

Company: SCI Engineering, Inc.		Project #: 2020-0510.20	Collected by: Travis Clayton
Address: 130 Point West Boulevard		Project Name: City of Pacific ACM Surveys	Phone #: 618-206-3049
City, St., Zip: St. Charles, MO 63301		Date Collected: 8/6/2020	Fax #:
State of Collection: MO	Account#: 2191	P.O. Number: 2020-0510.20	Email: tclayton@sciengineering.com

Bulk		Air		Soil	
ABB	PLM EPA 600/R-93/116 <input type="checkbox"/>	ABA	PCM NIOSH 7400 <input type="checkbox"/>	ABSE	PLM EPA 600 R-93/116 (Qual.) <input type="checkbox"/>
	Positive Stop <input type="checkbox"/>	ABA-2	OSHA w/ TWA <input type="checkbox"/>	Vermiculite & Soil	
ABEPA	PLM EPA 400 Point Count <input type="checkbox"/>	ABTEM	TEM AHERA <input type="checkbox"/>	ABSP	PLM CARB 435 (LOD <1%) <input type="checkbox"/>
ABB1K	PLM EPA 1000 Point Count <input type="checkbox"/>	ABATN	TEM NIOSH 7402 <input type="checkbox"/>	ABSP1	PLM CARB 435 (LOD 0.25%) <input checked="" type="checkbox"/>
ABBEN	PLM EPA NOB** <input type="checkbox"/>	ABT2	TEM Level II <input type="checkbox"/>	ABSP2	PLM CARB 435 (LOD 0.1%) <input type="checkbox"/>
ABBCH	TEM Chatfield** <input type="checkbox"/>	Other:	<input type="checkbox"/>	Dust	
ABBTM	TEM EPA NOB** <input type="checkbox"/>	New York ELAP		ABWA	TEM Wipe ASTM D-6480 <input type="checkbox"/>
ABQ	PLM Qualitative <input type="checkbox"/>	ABEPA2	NY ELAP 198.1 <input type="checkbox"/>	ABDMV	TEM Microvac ASTM D-5755 <input type="checkbox"/>
** Available on 24-hr. to 5-day TAT					
Water		ABENY	NY ELAP 198.6 PLM NOB <input type="checkbox"/>	Matrix	
ABHE	EPA 100.2 <input type="checkbox"/>	ABBNY	NY ELAP 198.4 TEM NOB <input type="checkbox"/>	Other	
				<input type="checkbox"/>	

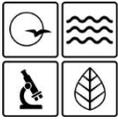
Turn Around Times	3 HR (4 HR TEM) <input type="checkbox"/>	6 HR (8HR TEM) <input type="checkbox"/>	12 HR <input type="checkbox"/>	1 Day <input type="checkbox"/>
	<input type="checkbox"/> 2 Days	<input type="checkbox"/> 3 Days	<input type="checkbox"/> 4 Days	<input checked="" type="checkbox"/> 5 Days

Special Instructions

Sample #	Sample Identification/Location	Volume or Area	Sample Date	Flow Rate	Start - Stop Time
526-012A	Vermiculite Attic Insulation		8/6/2020		
526-012B	Vermiculite Attic Insulation		8/6/2020		
526-012C	Vermiculite Attic Insulation		8/6/2020		

Relinquished by	Date	Time	Received by	Date	Time
<i>[Signature]</i>	8/14/20	0600	<i>[Signature]</i>	8/14/20	11:20am

If no technician is provided, then the primary contact for your account will be selected. Unless scheduled, the turnaround time for all samples received after 3 pm EST will be logged in the next business day. Weekend or holiday work must be scheduled ahead of time and is charged at 150% of the 3hr TAT or a minimum charge of \$150. A courier charge will be applied for same day and one-day turnaround times for offsite work. SanAir covers Standard Overnight FedEx shipping. Shipments billed to SanAir with a faster shipping rate will result in additional charges.



ASBESTOS NESHAP NOTIFICATION OF DEMOLITION AND RENOVATION

GENERAL INSTRUCTIONS

NOTE: There is a \$100 review fee for this notification. Make checks payable to the department's Air Pollution Control Program or the appropriate local agency.

1. First-time notices = "Original." Amended projects = "Revision." Notice of cancellation = "Cancelled."
2. In the event that no asbestos removal was necessary, indicate "N/A" for asbestos removal contractor.
3. Indicate the type of project.
4. Mark the "YES" box if asbestos is present. In the next box, indicate what types of asbestos materials are present. Mark the "NO" box if no asbestos is present.
5. Failure to complete this section will result in an unapproved project. Include building uses, sizes and age. If you do not know the exact information, give your best estimate.
6. All regulated structures must be inspected by a certified asbestos inspector prior to renovation or demolition. Typically: "Certified asbestos inspector, with sample analysis by PLM." If other methods were used, explain.
7. All asbestos materials present in the building must be included here. Enter amounts (in ft², linear feet, or ft³) of material to be removed from or left in the building. For example, in the column "Nonfriable asbestos material to be removed," under subcolumn "CAT II" (on the "surface area" line) you might enter "5,200" and "transite" under the number. The inspection report, which must be attached to the notification, should reflect this information.
8. This line must be completed. Never enter a date that is not at least 10 working days after your postmark, unless you have been granted a waiver by the department. **Missouri law requires notifications to be submitted at least 10 working days in advance of the project start date.**
9. If applicable, enter the dates on which abatement will occur or has occurred.
10. Give a brief description of your demolition/renovation plans, including the scope of work to be performed and the methods used to perform the work. Use an additional page if necessary.
11. Describe how any asbestos-containing materials (ACM) involved will be removed prior to demolition/renovation. If ACM will be left in the building, then indicate precautions used to prevent ACM from being made friable. If all asbestos has been removed, "N/A."
12. Identify waste transporter.
13. Identify waste disposal site.
14. Complete this section only for ordered demolitions. Submit the order with the notification. For all others, "N/A."
15. Complete this section only for emergency renovation projects. For all other renovations, indicate "N/A."
16. Indicate what will be done in the event that friable asbestos or suspect materials are unexpectedly encountered.
17. For regulated asbestos abatement or demolition of an unsafe or damaged structure when a prior inspection has not been conducted, a person trained in the requirements of 40 CFR Part 61, Subpart M must be on site to supervise the asbestos abatement. In the event that no asbestos is present or has already been removed, mark "N/A."
18. Always sign and date this line. This form may be signed by the project owner or operator. The project approval letter will be mailed to the person who signs the notification form.

NOTE: For all regulated demolition and renovation projects, always include a complete copy of your asbestos inspection report with the notification form.

Send completed forms to:

Missouri Department of Natural Resources
APCP, Asbestos
PO Box 176
Jefferson City, MO 65102

If using priority mail, send to:

Missouri Department of Natural Resources
APCP, Asbestos
1659 E. Elm St.
Jefferson City, MO 65101



MISSOURI DEPARTMENT OF NATURAL RESOURCES
 AIR POLLUTION CONTROL PROGRAM
**ASBESTOS NESHAP NOTIFICATION OF DEMOLITION
 AND RENOVATION**

FOR OFFICE USE ONLY	
DATE RECEIVED	POSTMARK
CHECK DATE	CHECK NUMBER
CHECK AMOUNT	NOTIFICATION NUMBER

There is a \$100 review fee for this notification. Processing will be delayed if notification is received without payment.

1. TYPE OF NOTIFICATION

O – ORIGINAL C – CANCELLED R – REVISION, WRITE REVISION NUMBER _____

2. FACILITY INFORMATION (IDENTIFY OWNER, REMOVAL CONTRACTOR AND OTHER OPERATOR)

OWNER'S NAME		ADDRESS		
CITY	STATE	ZIP CODE	EMAIL	
CONTACT	TITLE		TELEPHONE NUMBER WITH AREA CODE	
ASBESTOS REMOVAL CONTRACTOR		ADDRESS		
CITY	STATE	ZIP CODE	EMAIL	
CONTACT	TITLE		TELEPHONE NUMBER WITH AREA CODE	
DEMOLITION CONTRACTOR		ADDRESS		
CITY	STATE	ZIP CODE	EMAIL	
CONTACT	TITLE		TELEPHONE NUMBER WITH AREA CODE	

3. TYPE OF OPERATION

D – DEMO O – ORDERED DEMO R – RENOVATION E – EMERGENCY RENOVATION

4. IS ASBESTOS PRESENT?

<input type="checkbox"/> YES <input type="checkbox"/> NO	LIST TYPE(S) OF ASBESTOS MATERIAL TO BE REMOVED
--	---

5. FACILITY DESCRIPTION

BUILDING NAME			
ADDRESS			
CITY	COUNTY	STATE	ZIP CODE
SITE LOCATION			
BUILDING SIZE	NUMBER OF FLOORS	AGE IN YEARS	
PRESENT USE	PRIOR USE		

6. PROCEDURE, INCLUDING ANALYTICAL METHOD, IF APPROPRIATE, USED TO DETECT THE PRESENCE OF ASBESTOS MATERIAL. INCLUDE A COPY OF THE ASBESTOS INSPECTION.

7. APPROXIMATE AMOUNT OF ASBESTOS, INCLUDING: A. REGULATED ACM (RACM) B. CATEGORY I ACM C. CATEGORY II ACM	RACM TO BE REMOVED	NONFRIABLE ASBESTOS MATERIAL TO BE REMOVED		NONFRIABLE ASBESTOS MATERIAL NOT TO BE REMOVED	
		CAT I	CAT II	CAT I	CAT II
PIPES (LINEAR FEET)					
SURFACE AREA (SQUARE FEET)					
VOL. RACM OFF FACILITY COMPONENT (CUBIC FEET)					

8. SCHEDULED DATES DEMO/RENOVATION (MM/DD/YY)				
START:		COMPLETION:		
9. SCHEDULED DATES ASBESTOS REMOVAL (MM/DD/YY)				
START:		COMPLETION:	WEEKDAY WORK HOURS	WEEKEND WORK HOURS
10. DESCRIPTION OF PLANNED DEMOLITION OR RENOVATION WORK AND METHOD(S) TO BE USED				
11. DESCRIPTION OF WORK PRACTICES AND ENGINEERING CONTROLS TO BE USED TO PREVENT EMISSIONS OF ASBESTOS AT THE DEMOLITION OR RENOVATION SITE.				
12. WASTE TRANSPORTER				
NAME		ADDRESS		
CITY		STATE	ZIP CODE	
CONTACT PERSON		TELEPHONE NUMBER WITH AREA CODE		
13. WASTE DISPOSAL SITE				
NAME				
LOCATION				
CITY		STATE	ZIP CODE	
TELEPHONE NUMBER WITH AREA CODE				
14. IF DEMOLITION ORDERED BY A GOVERNMENT AGENCY, IDENTIFY THE AGENCY BELOW.				
NAME		TITLE		
AGENCY				
DATE OF ORDER (MM/DD/YY) INCLUDE A COPY OF THE ORDER.		DATE ORDERED TO BEGIN (MM/DD/YY)		
15. FOR EMERGENCY RENOVATIONS				
DATE AND HOUR OF EMERGENCY				
DESCRIPTION OF THE SUDDEN, UNEXPECTED EVENT				
EXPLANATION OF HOW THE EVENT CAUSED UNSAFE CONDITIONS OR WOULD CAUSE EQUIPMENT DAMAGE OR AN UNREASONABLE FINANCIAL BURDEN				
16. DESCRIPTION OF PROCEDURES TO BE FOLLOWED IN THE EVENT THAT UNEXPECTED ASBESTOS IS FOUND OR PREVIOUSLY NONFRIABLE ASBESTOS MATERIAL BECOMES CRUMBLLED, PULVERIZED OR REDUCED TO POWDER.				
17. I CERTIFY THAT AN INDIVIDUAL TRAINED IN THE PROVISIONS OF THIS REGULATION (40 CFR PART 61, SUBPART M) WILL BE ON-SITE DURING THE DEMOLITION OR RENOVATION AND EVIDENCE THAT THE REQUIRED TRAINING HAS BEEN ACCOMPLISHED BY THIS PERSON WILL BE AVAILABLE FOR INSPECTION DURING NORMAL BUSINESS HOURS (REQUIRED 1 YEAR AFTER PROMULGATION).				
SIGNATURE OF OWNER/OPERATOR			DATE	
18. I CERTIFY THAT THE ABOVE INFORMATION IS CORRECT.				
SIGNATURE OF OWNER/OPERATOR			DATE	



SCI ENGINEERING, INC.

EARTH • SCIENCE • SOLUTIONS

GEOTECHNICAL
ENVIRONMENTAL
NATURAL RESOURCES
CULTURAL RESOURCES
CONSTRUCTION SERVICES

August 21, 2020

Mr. Steve Roth
City of Pacific
300 Hoven Drive
Pacific, Missouri 63069

RE: Asbestos Survey Activities
718 S. 4th Street
Pacific, Missouri
SCI No. 2020-0510.20 Task 004

Dear Mr. Roth:

INTRODUCTION

SCI Engineering, Inc. (SCI) is pleased to submit this report of the analytical test results for samples of suspect asbestos-containing materials (ACMs) collected during the survey performed on July 31, 2020. The survey was conducted by Mr. Dan Vielweber, Missouri-Licensed Asbestos Inspector. A copy of Mr. Vielweber's asbestos inspector license is enclosed.

The purpose of this survey was to identify ACMs in accessible areas of the vacant residence addressed at 718 S. 4th Street in Pacific, Missouri. This survey is intended to satisfy the requirements for the asbestos National Emission Standard for Hazardous Air Pollutant (NESHAP) for demolition and renovation. It is not intended to be used for Occupational Safety and Health Administration (OSHA) compliance.

The on-site structure is a 1,700-square-foot single-story vacant residence with basement which appeared to have been constructed in the 1960s. The exterior of the structure was vinyl siding with vinyl windows and an asphalt shingle roof. The structure utilized a forced air HVAC system.

LIMITATIONS

SCI's asbestos survey entailed visually assessing accessible areas only. If any other suspect asbestos materials are discovered during demolition or renovation, please contact SCI, and we will make arrangements for assessment of these materials. Areas behind walls, under subfloors and above fixed ceilings are considered non-accessible.

During the course of performing the survey of the structure, SCI was able to access all locations within the structure.

ASBESTOS SURVEY

Nine samples were collected from the on-site structure. Of these nine samples, seven were analyzed using a positive stop procedure. These samples were analyzed by Polarized Light Microscopy (PLM). Of the seven samples analyzed, one was found to contain asbestos. Analytical test results and chain-of-

custody documentation are enclosed. The results of the analysis of all samples are summarized in Table 1.

Table 1 - Summary of Analytical Test Results

Sample Number	Material Location	Material Description	Approx. Quantity	Result	Category
718-001a	Ceilings	Plaster	--	None Detected in Plaster or Skim Coat	--
718-001b				None Detected in Plaster or Skim Coat	
718-001c				None Detected in Plaster or Skim Coat	
718-002a	Roof	Asphalt Shingles	--	None Detected	--
718-002b				None Detected	
718-002c				None Detected	
718-003a	Exterior	Window Glaze	2 Windows (25 lf)	5-10% Chrysotile	NCII
718-003b				Not Analyzed due to Positive Stop	
718-003c				Not Analyzed due to Positive Stop	

lf – linear feet

NCII - Non-Friable Category II Material

DEMOLITION/RENOVATION

According to the Missouri Department of Natural Resources (MDNR), any friable or potentially friable ACM equal to or greater than 260 linear feet or 160 square feet is classified as a regulated ACM (RACM) and must be removed prior to demolition or renovation which would significantly damage the material.

The window glaze is a Category II non-friable material and according to the rule outlined above, is not, by definition, an RACM. It is the opinion of the MDNR that demolition activities will not render this material friable and, therefore, it is not required to be removed prior to demolition.

The Occupational Safety & Health Administration also has regulations (29 CFR Parts 1910 et al, Occupational Exposure to Asbestos, August 10, 1994) regarding removal of asbestos-containing materials which must be followed.

REPORTING

Attached is Missouri Department of Natural Resources' (MDNR) Notification of Demolition and Renovation form, which has been filled out to the extent possible by SCI. The remaining information must be completed by you.

This report, as well as the completed EPA Notification of Demolition and Renovation form, must be submitted to the MDNR as follows:

- Ms. Stephanie Hamilton, MDNR, Air Pollution Control, PO Box 176, Jefferson City, MO, 65102 at asbestosnotifications@dnr.mo.gov.

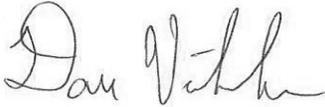
It should be noted that following submittal of the notification form, there is a ten-day waiting period before demolition, renovation, or abatement activities can begin.

If this report is to be used for bidding purposes for asbestos abatement, SCI recommends the contractor visit the site to verify all conditions and quantities.

SCI appreciates the opportunity to be of service to you on this project, and we look forward to working with you in the future. Please contact us if you have any questions or comments regarding the information provided.

Respectfully,

SCI ENGINEERING, INC.



Daniel P. Vielweber
Missouri State Certified Asbestos Inspector
Certificate Number 7118092019MOIR20150



Glen A. Grissom
Senior Specialist

DPV/GAG/rah

Enclosures

Asbestos NESHAP Notification of Demolition and Renovation
Analytical Test Results and Chain of Custody
Asbestos Inspector Certificate

CERTIFICATION NUMBER:

7011012720MOIR18366

THIS CERTIFIES

Travis S Clayton

HAS COMPLETED THE CERTIFICATION

REQUIREMENTS FOR

Inspector



APPROVED: **02/25/2020**

EXPIRES: **02/25/2021**

TRAINING DATE: **01/27/2020**

A handwritten signature in blue ink, appearing to read "James A. Byher".

Director of Air Pollution Control Program

CERTIFICATION NUMBER:

7118092019MOIR20150

THIS CERTIFIES

Daniel Vielweber

HAS COMPLETED THE CERTIFICATION

REQUIREMENTS FOR

Inspector



APPROVED: **09/27/2019**

TRAINING DATE: **09/20/2019**

EXPIRES: **09/27/2020**


Director of Air Pollution Control Program

The holder of this card is certified to conduct the specified occupation in conjunction with an asbestos abatement project under the certification requirements, in RSMo, 10 CSR 10-6.250.

It is unlawful for any person to use this card other than the individual to whom it is issued or in any manner inconsistent with the law.

Violations of Missouri State Rule 10 CSR 10-6.080, "Emission Standards for Hazardous Air Pollutants," which adopts by reference 40 CFR, Part 61, Subpart M, the "National Emission Standards for Asbestos," are subject to fines of not more than \$10,000 per day per violation. This Missouri State Certification is subject to review and the director may deny, suspend or revoke this certification per RSMo, chapter 643.230.

If found, please return to:



MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

Air Pollution Control Program
P.O. Box 176
Jefferson City, MO 65102
Phone: (573)751-4817 Fax:(573)751-2706
www.dnr.mo.gov/env/apcp



**PRECISION
ANALYSIS, INC.**
BULK SAMPLE ANALYSIS

Client: SCI Engineering, Inc.
Project No.: 2020-0510.20
Project Name: City of Pacific ACM Surveys

Date Received: 08-03-20

Date Reported: 08-04-20

**Technique: Polarized Light Microscopy with Dispersion Staining
In accordance with EPA/600/R-93/116 Test Method**

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
396997	718-1a Plaster	None Detected	Horse Hair	Binders, Aggregate
396998	718-1b Plaster	None Detected	Horse Hair	Binders, Aggregate
396999	718-1c Plaster	None Detected	Horse Hair	Binders, Aggregate
397000	718-1a Skim Coat	None Detected		Binders, Paint, Aggregate
397001	718-1b Skim Coat	None Detected		Binders, Paint, Aggregate
397002	718-1c Skim Coat	None Detected		Binders, Paint, Aggregate
397003	718-2a	None Detected	Glass Wool	Black Tar Binders, Aggregate
397004	718-2b	None Detected	Glass Wool	Black Tar Binders, Aggregate
397005	718-2c	None Detected	Glass Wool	Black Tar Binders, Aggregate

* The upper detection limit is 100 percent.
The lower detection limit is less than 1 percent.



**PRECISION
ANALYSIS, INC.**
BULK SAMPLE ANALYSIS

Client: SCI Engineering, Inc.
Project No.: 2020-0510.20
Project Name: City of Pacific ACM Surveys

Date Received: 08-03-20

Date Reported: 08-04-20

**Technique: Polarized Light Microscopy with Dispersion Staining
In accordance with EPA/600/R-93/116 Test Method**

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
397006	718-3a	5-10% Chrysotile		Binders, Paint

* The upper detection limit is 100 percent.
The lower detection limit is less than 1 percent.

Paul Spell
Laboratory Director

AIHA Bulk Asbestos Proficiency Analytical Testing Program ID # 101228
In Association with RTI Center for Measurements and Quality Assurance

PLM is not recommended for analysis of vinyl floor tile. Vinyl floor tile often contains milled asbestos with fiber lengths of 1 micrometer or less. Because these fibers are not detected by PLM, PLM analysis may yield a false negative result. We recommend qualitative analysis of vinyl floor tile by Transmission Electron Microscopy (TEM).

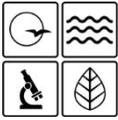
Precision Analysis assumes no responsibility for financial or health consequences for action or lack of action taken by our clients or their agents as a result of these analytical reports. Since Precision Analysis was not involved in the collection of these samples, we cannot attest to the proper collection of said samples and therefore are neither responsible nor liable for the accuracy, validity or completeness of the sample collection.



BULK ASBESTOS CHAIN OF CUSTODY

130 Point West Boulevard
St. Charles, Missouri 63301
636-949-8200 Fax 636-949-8269
www.sciengineering.com

Company : SCI Engineering, Inc.			Please Provide Results Via: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail		
Street: 130 Point West Boulevard			To: Glen Grissom		
City/State/Zip: St. Charles, Missouri 63301			Telephone #: 636-949-8200 Fax #: 636-949-8269		
Project Name: City of Pacific ACM Surveys			Email: ggrissom@sciengineering.com		
Project Number: 2020-0510.20					
Turnaround Time (TAT) Options - Please Check One					
<input type="checkbox"/> 3 Hour	<input type="checkbox"/> 6 Hour	<input type="checkbox"/> 24 Hour	<input type="checkbox"/> 48 Hour	<input type="checkbox"/> 72 Hour	<input type="checkbox"/> 96 Hour <input checked="" type="checkbox"/> Other 5 Day
PLM Bulk Analysis			TEM Bulk Analysis		
<input checked="" type="checkbox"/> PLM-EPA 600 <input type="checkbox"/> PLM-EPA 600 NOB <input type="checkbox"/> PLM-Point Count			<input type="checkbox"/> TEM EPA NOB - EPA 600/R-93/116 Section 2.5.5.1 <input type="checkbox"/> Chatfield Protocol (semi-quantitative)		
<input checked="" type="checkbox"/> Check Box for Stop Positive					
Comments: 718 S. 4th St.					
Samplers Name: Dan Vielweber			Samplers Signature: <i>D. Vielweber</i>		Date Sampled: 7-31-20
Building Use/Description/Features: Residence				Age:	Size:
Windows: Vinyl	Siding: Vinyl	Roof: Asphalt Shingle	Attic:	HVAC: Forced Air	
Sample #	Material Location	Material Description	Approx. Quantity	Condition	Comments
718-001ABC	Ceilings	Plaster		Good	
718-002ABC	Roof	Asphalt Shingles		Good	
718-003ABC	Exterior	Window Glaze	2 Windows	Good	
Relinquished: <i>D. Vielweber</i>	Date: 7-31-20	RECEIVED		Time: 1545	
Received: <i>Gene Spiller</i>	Date:	AUG 03 REC'D		Time:	
		BY: of 1			



ASBESTOS NESHAP NOTIFICATION OF DEMOLITION AND RENOVATION

GENERAL INSTRUCTIONS

NOTE: There is a \$100 review fee for this notification. Make checks payable to the department's Air Pollution Control Program or the appropriate local agency.

1. First-time notices = "Original." Amended projects = "Revision." Notice of cancellation = "Cancelled."
2. In the event that no asbestos removal was necessary, indicate "N/A" for asbestos removal contractor.
3. Indicate the type of project.
4. Mark the "YES" box if asbestos is present. In the next box, indicate what types of asbestos materials are present. Mark the "NO" box if no asbestos is present.
5. Failure to complete this section will result in an unapproved project. Include building uses, sizes and age. If you do not know the exact information, give your best estimate.
6. All regulated structures must be inspected by a certified asbestos inspector prior to renovation or demolition. Typically: "Certified asbestos inspector, with sample analysis by PLM." If other methods were used, explain.
7. All asbestos materials present in the building must be included here. Enter amounts (in ft², linear feet, or ft³) of material to be removed from or left in the building. For example, in the column "Nonfriable asbestos material to be removed," under subcolumn "CAT II" (on the "surface area" line) you might enter "5,200" and "transite" under the number. The inspection report, which must be attached to the notification, should reflect this information.
8. This line must be completed. Never enter a date that is not at least 10 working days after your postmark, unless you have been granted a waiver by the department. **Missouri law requires notifications to be submitted at least 10 working days in advance of the project start date.**
9. If applicable, enter the dates on which abatement will occur or has occurred.
10. Give a brief description of your demolition/renovation plans, including the scope of work to be performed and the methods used to perform the work. Use an additional page if necessary.
11. Describe how any asbestos-containing materials (ACM) involved will be removed prior to demolition/renovation. If ACM will be left in the building, then indicate precautions used to prevent ACM from being made friable. If all asbestos has been removed, "N/A."
12. Identify waste transporter.
13. Identify waste disposal site.
14. Complete this section only for ordered demolitions. Submit the order with the notification. For all others, "N/A."
15. Complete this section only for emergency renovation projects. For all other renovations, indicate "N/A."
16. Indicate what will be done in the event that friable asbestos or suspect materials are unexpectedly encountered.
17. For regulated asbestos abatement or demolition of an unsafe or damaged structure when a prior inspection has not been conducted, a person trained in the requirements of 40 CFR Part 61, Subpart M must be on site to supervise the asbestos abatement. In the event that no asbestos is present or has already been removed, mark "N/A."
18. Always sign and date this line. This form may be signed by the project owner or operator. The project approval letter will be mailed to the person who signs the notification form.

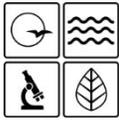
NOTE: For all regulated demolition and renovation projects, always include a complete copy of your asbestos inspection report with the notification form.

Send completed forms to:

Missouri Department of Natural Resources
APCP, Asbestos
PO Box 176
Jefferson City, MO 65102

If using priority mail, send to:

Missouri Department of Natural Resources
APCP, Asbestos
1659 E. Elm St.
Jefferson City, MO 65101



MISSOURI DEPARTMENT OF NATURAL RESOURCES
 AIR POLLUTION CONTROL PROGRAM
**ASBESTOS NESHAP NOTIFICATION OF DEMOLITION
 AND RENOVATION**

FOR OFFICE USE ONLY	
DATE RECEIVED	POSTMARK
CHECK DATE	CHECK NUMBER
CHECK AMOUNT	NOTIFICATION NUMBER

There is a \$100 review fee for this notification. Processing will be delayed if notification is received without payment.

1. TYPE OF NOTIFICATION

O – ORIGINAL C – CANCELLED R – REVISION, WRITE REVISION NUMBER _____

2. FACILITY INFORMATION (IDENTIFY OWNER, REMOVAL CONTRACTOR AND OTHER OPERATOR)

OWNER'S NAME		ADDRESS		
CITY	STATE	ZIP CODE	EMAIL	
CONTACT	TITLE		TELEPHONE NUMBER WITH AREA CODE	
ASBESTOS REMOVAL CONTRACTOR		ADDRESS		
CITY	STATE	ZIP CODE	EMAIL	
CONTACT	TITLE		TELEPHONE NUMBER WITH AREA CODE	
DEMOLITION CONTRACTOR		ADDRESS		
CITY	STATE	ZIP CODE	EMAIL	
CONTACT	TITLE		TELEPHONE NUMBER WITH AREA CODE	

3. TYPE OF OPERATION

D – DEMO O – ORDERED DEMO R – RENOVATION E – EMERGENCY RENOVATION

4. IS ASBESTOS PRESENT?

<input type="checkbox"/> YES <input type="checkbox"/> NO	LIST TYPE(S) OF ASBESTOS MATERIAL TO BE REMOVED
--	---

5. FACILITY DESCRIPTION

BUILDING NAME			
ADDRESS			
CITY	COUNTY	STATE	ZIP CODE
SITE LOCATION			
BUILDING SIZE	NUMBER OF FLOORS	AGE IN YEARS	
PRESENT USE		PRIOR USE	

6. PROCEDURE, INCLUDING ANALYTICAL METHOD, IF APPROPRIATE, USED TO DETECT THE PRESENCE OF ASBESTOS MATERIAL. INCLUDE A COPY OF THE ASBESTOS INSPECTION.

7. APPROXIMATE AMOUNT OF ASBESTOS, INCLUDING: A. REGULATED ACM (RACM) B. CATEGORY I ACM C. CATEGORY II ACM	RACM TO BE REMOVED	NONFRIABLE ASBESTOS MATERIAL TO BE REMOVED		NONFRIABLE ASBESTOS MATERIAL NOT TO BE REMOVED	
		CAT I	CAT II	CAT I	CAT II
PIPES (LINEAR FEET)					
SURFACE AREA (SQUARE FEET)					
VOL. RACM OFF FACILITY COMPONENT (CUBIC FEET)					

8. SCHEDULED DATES DEMO/RENOVATION (MM/DD/YY)			
START:		COMPLETION:	
9. SCHEDULED DATES ASBESTOS REMOVAL (MM/DD/YY)			
START:		COMPLETION:	WEEKDAY WORK HOURS
			WEEKEND WORK HOURS
10. DESCRIPTION OF PLANNED DEMOLITION OR RENOVATION WORK AND METHOD(S) TO BE USED			
11. DESCRIPTION OF WORK PRACTICES AND ENGINEERING CONTROLS TO BE USED TO PREVENT EMISSIONS OF ASBESTOS AT THE DEMOLITION OR RENOVATION SITE.			
12. WASTE TRANSPORTER			
NAME		ADDRESS	
CITY		STATE	ZIP CODE
CONTACT PERSON		TELEPHONE NUMBER WITH AREA CODE	
13. WASTE DISPOSAL SITE			
NAME			
LOCATION			
CITY		STATE	ZIP CODE
TELEPHONE NUMBER WITH AREA CODE			
14. IF DEMOLITION ORDERED BY A GOVERNMENT AGENCY, IDENTIFY THE AGENCY BELOW.			
NAME		TITLE	
AGENCY			
DATE OF ORDER (MM/DD/YY) INCLUDE A COPY OF THE ORDER.		DATE ORDERED TO BEGIN (MM/DD/YY)	
15. FOR EMERGENCY RENOVATIONS			
DATE AND HOUR OF EMERGENCY			
DESCRIPTION OF THE SUDDEN, UNEXPECTED EVENT			
EXPLANATION OF HOW THE EVENT CAUSED UNSAFE CONDITIONS OR WOULD CAUSE EQUIPMENT DAMAGE OR AN UNREASONABLE FINANCIAL BURDEN			
16. DESCRIPTION OF PROCEDURES TO BE FOLLOWED IN THE EVENT THAT UNEXPECTED ASBESTOS IS FOUND OR PREVIOUSLY NONFRIABLE ASBESTOS MATERIAL BECOMES CRUMBLLED, PULVERIZED OR REDUCED TO POWDER.			
17. I CERTIFY THAT AN INDIVIDUAL TRAINED IN THE PROVISIONS OF THIS REGULATION (40 CFR PART 61, SUBPART M) WILL BE ON-SITE DURING THE DEMOLITION OR RENOVATION AND EVIDENCE THAT THE REQUIRED TRAINING HAS BEEN ACCOMPLISHED BY THIS PERSON WILL BE AVAILABLE FOR INSPECTION DURING NORMAL BUSINESS HOURS (REQUIRED 1 YEAR AFTER PROMULGATION).			
SIGNATURE OF OWNER/OPERATOR			DATE
18. I CERTIFY THAT THE ABOVE INFORMATION IS CORRECT.			
SIGNATURE OF OWNER/OPERATOR			DATE



SCI ENGINEERING, INC.

EARTH • SCIENCE • SOLUTIONS

GEOTECHNICAL
ENVIRONMENTAL
NATURAL RESOURCES
CULTURAL RESOURCES
CONSTRUCTION SERVICES

August 21, 2020

Mr. Steve Roth
City of Pacific
300 Hoven Drive
Pacific, Missouri 63069

RE: Asbestos Survey Activities
804 S. First Street
Pacific, Missouri
SCI No. 2020-0510.20 Task 005

Dear Mr. Roth:

INTRODUCTION

SCI Engineering, Inc. (SCI) is pleased to submit this report of the analytical test results for samples of suspect asbestos-containing materials (ACMs) collected during the survey performed on July 31, 2020. The survey was conducted by Mr. Dan Vielweber, Missouri-Licensed Asbestos Inspector. A copy of Mr. Vielweber's asbestos inspector license is enclosed.

The purpose of this survey was to identify ACMs in accessible areas of the vacant residence addressed at 804 S. First Street in Pacific, Missouri. This survey is intended to satisfy the requirements for the asbestos National Emission Standard for Hazardous Air Pollutant (NESHAP) for demolition and renovation as well as for Occupational Safety and Health Administration (OSHA) compliance.

The on-site structure is a 2,200-square-foot vacant residence with basement and attached garage which appeared to be constructed in the 1960s. The exterior of the structure was transite siding with wood windows and an asphalt shingle roof. The structure utilized a forced air HVAC system.

LIMITATIONS

SCI's asbestos survey entailed visually assessing accessible areas only. If any other suspect asbestos materials are discovered during demolition or renovation, please contact SCI, and we will make arrangements for assessment of these materials. Areas behind walls, under subfloors and above fixed ceilings are considered non-accessible.

During the course of performing the survey of the structure, SCI was able to access all locations within the structure.

ASBESTOS SURVEY

Seventeen samples were collected from the on-site structure. Of these 17 samples, 15 were analyzed using a positive stop procedure. These samples were analyzed by Polarized Light Microscopy (PLM). Of the 15 samples analyzed, three were found to contain asbestos. Analytical test results and chain-of-

custody documentation are enclosed. The results of the analysis of all samples are summarized in Table 1.

Table 1 - Summary of Analytical Test Results

Sample Number	Material Location	Material Description	Approx. Quantity	Result	Category
804-001a	Throughout	Plaster System	--	None Detected	--
804-001b				None Detected	
804-001c				None Detected	
804-002a	Fire Place	Tar Paper	70 sf	None Detected	--
804-002b				None Detected	
804-002c				None Detected	
804-003	Ducts	Duct Tape	15 sf	85-90% Chrysotile	Friable
804-004a	Exterior	Window Glaze	29 Windows	None Detected	--
804-004b				None Detected	
804-004c				None Detected	
804-005a	Exterior	Window and Door Caulk (including garage door)	29 Windows 2 Doors (450 lf)	5-10% Chrysotile	NCII
804-005b				Not Analyzed due to Positive Stop	
804-005c				Not Analyzed due to Positive Stop	
804-006	Exterior	Transite Siding	3,100 sf	25-30% Chrysotile	NCII
804-007a	Roof	Asphalt Shingle	--	None Detected	--
804-007b				None Detected	
804-007c				None Detected	

lf - linear feet

sf - square feet

NCII - Non-Friable Category II Material

DEMOLITION/RENOVATION

According to the Missouri Department of Natural Resources (MDNR), any friable or potentially friable ACM equal to or greater than 260 linear feet or 160 square feet is classified as a regulated ACM (RACM) and must be removed prior to demolition or renovation which would significantly damage the material.

The duct tape is a friable material and when considered in conjunction with other friable materials identified as part of this project, exceeds the minimum quantity requirements. This material, therefore, must be removed from the structure prior to demolition.

The transite siding is a Category II non-friable materials and according to the rule outlined above, is not, by definition, an RACM. However, it is the opinion of the MDNR that demolition activities will render the transite friable and, therefore, it must be removed prior to demolition. If the transite is removed in an intact state, it may be removed by a contractor with asbestos awareness training. Otherwise, the material should be abated by a licensed abatement contractor.

The window/door caulk is a Category II non-friable material and according to the rule outlined above, is not, by definition, an RACM. It is the opinion of the MDNR that demolition activities will not render the caulk friable and, therefore, this material is not required to be removed prior to demolition.

The Occupational Safety & Health Administration also has regulations (29 CFR Parts 1910 et al, Occupational Exposure to Asbestos, August 10, 1994) regarding removal of asbestos-containing materials which must be followed.

REPORTING

Attached is Missouri Department of Natural Resources' (MDNR) Notification of Demolition and Renovation form, which has been filled out to the extent possible by SCI. The remaining information must be completed by you.

This report, as well as the completed EPA Notification of Demolition and Renovation form, must be submitted to the MDNR as follows:

- Ms. Stephanie Hamilton, MDNR, Air Pollution Control, PO Box 176, Jefferson City, MO, 65102 at asbestosnotifications@dnr.mo.gov.

It should be noted that following submittal of the notification form, there is a ten-day waiting period before demolition, renovation, or abatement activities can begin.

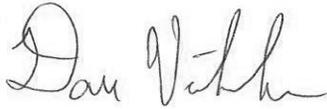
If this report is to be used for bidding purposes for asbestos abatement, SCI recommends the contractor visit the site to verify all conditions and quantities.

SCI appreciates the opportunity to be of service to you on this project, and we look forward to working with you in the future.

Please contact us if you have any questions or comments regarding the information provided.

Respectfully,

SCI ENGINEERING, INC.



Daniel P. Vielweber
Missouri State Certified Asbestos Inspector
Certificate Number 7118092019MOIR20150



Glen A. Grissom
Senior Specialist

DPV/GAG/rah

Enclosures

Asbestos NESHAP Notification of Demolition and Renovation
Analytical Test Results and Chain of Custody
Asbestos Inspector Certificate

CERTIFICATION NUMBER:

7011012720MOIR18366

THIS CERTIFIES

Travis S Clayton

HAS COMPLETED THE CERTIFICATION

REQUIREMENTS FOR

Inspector



APPROVED: **02/25/2020**

EXPIRES: **02/25/2021**

TRAINING DATE: **01/27/2020**

A handwritten signature in blue ink, appearing to read "James A. Byher".

Director of Air Pollution Control Program

CERTIFICATION NUMBER:

7118092019MOIR20150

THIS CERTIFIES

Daniel Vielweber

HAS COMPLETED THE CERTIFICATION

REQUIREMENTS FOR

Inspector



APPROVED: **09/27/2019**

TRAINING DATE: **09/20/2019**

EXPIRES: **09/27/2020**

Director of Air Pollution Control Program

The holder of this card is certified to conduct the specified occupation in conjunction with an asbestos abatement project under the certification requirements, in RSMo, 10 CSR 10-6.250.

It is unlawful for any person to use this card other than the individual to whom it is issued or in any manner inconsistent with the law.

Violations of Missouri State Rule 10 CSR 10-6.080, "Emission Standards for Hazardous Air Pollutants," which adopts by reference 40 CFR, Part 61, Subpart M, the "National Emission Standards for Asbestos," are subject to fines of not more than \$10,000 per day per violation. This Missouri State Certification is subject to review and the director may deny, suspend or revoke this certification per RSMo, chapter 643.230.

If found, please return to:



MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

Air Pollution Control Program

P.O. Box 176

Jefferson City, MO 65102

Phone: (573)751-4817 Fax: (573)751-2706

www.dnr.mo.gov/env/apcp



PRECISION ANALYSIS, INC.

BULK SAMPLE ANALYSIS

Client: SCI Engineering, Inc.

Date Received: 08-03-20

Project No.: 2020-0510.20

Project Name: City of Pacific ACM Surveys

Date Reported: 08-04-20

Technique: Polarized Light Microscopy with Dispersion Staining

In accordance with EPA/600/R-93/116 Test Method

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
397065	804-1a	None Detected	Cellulose, Horse Hair	Binders, Aggregate
397066	804-1b	None Detected	Cellulose, Horse Hair	Binders, Aggregate
397067	804-1c	None Detected	Cellulose	Binders
	No Skim Coat			
397068	804-2a	None Detected	Cellulose	Black Tar Binders
397069	804-2b	None Detected	Cellulose	Black Tar Binders
397070	804-2c	None Detected	Cellulose	Black Tar Binders
397071	804-3	85-90% Chrysotile	Antigorite	Binders
397072	804-4a	None Detected		Binders, Paint
397073	804-4b	None Detected		Binders, Paint
397074	804-4c	None Detected		Binders, Paint
397075	804-5a	5-10% Chrysotile		Binders, Paint
397076	804-6	25-30% Chrysotile	Antigorite	Binders, Paint, Aggregate
397077	804-7a	None Detected	Glass Wool	Black Tar Binders, Aggregate
397078	804-7b	None Detected	Glass Wool	Black Tar Binders, Aggregate

* The upper detection limit is 100 percent.

The lower detection limit is less than 1 percent.



PRECISION ANALYSIS, INC.

BULK SAMPLE ANALYSIS

Client: SCI Engineering, Inc.
 Project No.: 2020-0510.20
 Project Name: City of Pacific ACM Surveys

Date Received: 08-03-20

Date Reported: 08-04-20

Technique: Polarized Light Microscopy with Dispersion Staining
In accordance with EPA/600/R-93/116 Test Method

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
397079	804-7c	None Detected	Glass Wool	Black Tar Binders, Aggregate

* The upper detection limit is 100 percent.
 The lower detection limit is less than 1 percent.

Paul Spell
 Laboratory Director

AIHA Bulk Asbestos Proficiency Analytical Testing Program ID # 101228
 In Association with RTI Center for Measurements and Quality Assurance

PLM is not recommended for analysis of vinyl floor tile. Vinyl floor tile often contains milled asbestos with fiber lengths of 1 micrometer or less. Because these fibers are not detected by PLM, PLM analysis may yield a false negative result. We recommend qualitative analysis of vinyl floor tile by Transmission Electron Microscopy (TEM).

Precision Analysis assumes no responsibility for financial or health consequences for action or lack of action taken by our clients or their agents as a result of these analytical reports. Since Precision Analysis was not involved in the collection of these samples, we cannot attest to the proper collection of said samples and therefore are neither responsible nor liable for the accuracy, validity or completeness of the sample collection.

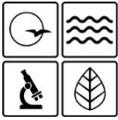


BULK ASBESTOS CHAIN OF CUSTODY

130 Point West Boulevard
St. Charles, Missouri 63301
636-949-8200 Fax 636-949-8269
www.sciengineering.com

Company : SCI Engineering, Inc.			Please Provide Results Via: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail		
Street: 130 Point West Boulevard			To: Glen Grissom		
City/State/Zip: St. Charles, Missouri 63301			Telephone #: 636-949-8200 Fax #: 636-949-8269		
Project Name: City of Pacific ACM Surveys			Email: ggrissom@sciengineering.com		
Project Number: 2020-0510.20					
Turnaround Time (TAT) Options - Please Check One					
<input type="checkbox"/> 3 Hour		<input type="checkbox"/> 6 Hour		<input type="checkbox"/> 24 Hour	
<input type="checkbox"/> 48 Hour		<input type="checkbox"/> 72 Hour		<input type="checkbox"/> 96 Hour	
<input checked="" type="checkbox"/> Other 5 Day					
PLM Bulk Analysis			TEM Bulk Analysis		
<input checked="" type="checkbox"/> PLM-EPA 600 <input type="checkbox"/> PLM-EPA 600 NOB <input type="checkbox"/> PLM-Point Count			<input type="checkbox"/> TEM EPA NOB - EPA 600/R-93/116 Section 2.5.5.1 <input type="checkbox"/> Chatfield Protocol (semi-quantitative)		
<input checked="" type="checkbox"/> Check Box for Stop Positive					
Comments: 804 S. 1st St.					
Samplers Name: Dan Vielweber			Samplers Signature: <i>Dan Vielweber</i>		Date Sampled: 7-31-20
Building Use/Description/Features: Residence				Age:	Size:
Windows: Wood	Siding: Transite	Roof: Asphalt Shingle	Attic:	HVAC: Forced Air	
Sample #	Material Location	Material Description	Approx. Quantity	Condition	Comments
804-001ABC	Throughout	Plaster		Good	
804-002ABC	Fire Place	Tar Paper	70 SF	Good	
804-003	Ducts	Duct Tape	15 SF	Good	
804-004ABC	Exterior	Window Glaze	29 Windows, 2 Doors	Good	
804-005ABC	Exterior	Window/Door Caulk	29 Windows, 2 Doors	Good	Garage Door Also
804-006	Exterior	Transite Siding		Good	
804-007ABC	Roof	Asphalt Shingle		Good	
Relinquished: <i>Dan Vielweber</i>			Date: 7-31-20	Time: 1545	
Received: <i>Gene Spau</i>			Date:	Time:	

AUG 03 REC'D
 BY:



ASBESTOS NESHAP NOTIFICATION OF DEMOLITION AND RENOVATION

GENERAL INSTRUCTIONS

NOTE: There is a \$100 review fee for this notification. Make checks payable to the department's Air Pollution Control Program or the appropriate local agency.

1. First-time notices = "Original." Amended projects = "Revision." Notice of cancellation = "Cancelled."
2. In the event that no asbestos removal was necessary, indicate "N/A" for asbestos removal contractor.
3. Indicate the type of project.
4. Mark the "YES" box if asbestos is present. In the next box, indicate what types of asbestos materials are present. Mark the "NO" box if no asbestos is present.
5. Failure to complete this section will result in an unapproved project. Include building uses, sizes and age. If you do not know the exact information, give your best estimate.
6. All regulated structures must be inspected by a certified asbestos inspector prior to renovation or demolition. Typically: "Certified asbestos inspector, with sample analysis by PLM." If other methods were used, explain.
7. All asbestos materials present in the building must be included here. Enter amounts (in ft², linear feet, or ft³) of material to be removed from or left in the building. For example, in the column "Nonfriable asbestos material to be removed," under subcolumn "CAT II" (on the "surface area" line) you might enter "5,200" and "transite" under the number. The inspection report, which must be attached to the notification, should reflect this information.
8. This line must be completed. Never enter a date that is not at least 10 working days after your postmark, unless you have been granted a waiver by the department. **Missouri law requires notifications to be submitted at least 10 working days in advance of the project start date.**
9. If applicable, enter the dates on which abatement will occur or has occurred.
10. Give a brief description of your demolition/renovation plans, including the scope of work to be performed and the methods used to perform the work. Use an additional page if necessary.
11. Describe how any asbestos-containing materials (ACM) involved will be removed prior to demolition/renovation. If ACM will be left in the building, then indicate precautions used to prevent ACM from being made friable. If all asbestos has been removed, "N/A."
12. Identify waste transporter.
13. Identify waste disposal site.
14. Complete this section only for ordered demolitions. Submit the order with the notification. For all others, "N/A."
15. Complete this section only for emergency renovation projects. For all other renovations, indicate "N/A."
16. Indicate what will be done in the event that friable asbestos or suspect materials are unexpectedly encountered.
17. For regulated asbestos abatement or demolition of an unsafe or damaged structure when a prior inspection has not been conducted, a person trained in the requirements of 40 CFR Part 61, Subpart M must be on site to supervise the asbestos abatement. In the event that no asbestos is present or has already been removed, mark "N/A."
18. Always sign and date this line. This form may be signed by the project owner or operator. The project approval letter will be mailed to the person who signs the notification form.

NOTE: For all regulated demolition and renovation projects, always include a complete copy of your asbestos inspection report with the notification form.

Send completed forms to:

Missouri Department of Natural Resources
APCP, Asbestos
PO Box 176
Jefferson City, MO 65102

If using priority mail, send to:

Missouri Department of Natural Resources
APCP, Asbestos
1659 E. Elm St.
Jefferson City, MO 65101



MISSOURI DEPARTMENT OF NATURAL RESOURCES
 AIR POLLUTION CONTROL PROGRAM
**ASBESTOS NESHAP NOTIFICATION OF DEMOLITION
 AND RENOVATION**

FOR OFFICE USE ONLY	
DATE RECEIVED	POSTMARK
CHECK DATE	CHECK NUMBER
CHECK AMOUNT	NOTIFICATION NUMBER

There is a \$100 review fee for this notification. Processing will be delayed if notification is received without payment.

1. TYPE OF NOTIFICATION

O – ORIGINAL C – CANCELLED R – REVISION, WRITE REVISION NUMBER _____

2. FACILITY INFORMATION (IDENTIFY OWNER, REMOVAL CONTRACTOR AND OTHER OPERATOR)

OWNER'S NAME		ADDRESS		
CITY	STATE	ZIP CODE	EMAIL	
CONTACT	TITLE		TELEPHONE NUMBER WITH AREA CODE	
ASBESTOS REMOVAL CONTRACTOR		ADDRESS		
CITY	STATE	ZIP CODE	EMAIL	
CONTACT	TITLE		TELEPHONE NUMBER WITH AREA CODE	
DEMOLITION CONTRACTOR		ADDRESS		
CITY	STATE	ZIP CODE	EMAIL	
CONTACT	TITLE		TELEPHONE NUMBER WITH AREA CODE	

3. TYPE OF OPERATION

D – DEMO O – ORDERED DEMO R – RENOVATION E – EMERGENCY RENOVATION

4. IS ASBESTOS PRESENT?

<input type="checkbox"/> YES <input type="checkbox"/> NO	LIST TYPE(S) OF ASBESTOS MATERIAL TO BE REMOVED
--	---

5. FACILITY DESCRIPTION

BUILDING NAME			
ADDRESS			
CITY	COUNTY	STATE	ZIP CODE
SITE LOCATION			
BUILDING SIZE	NUMBER OF FLOORS	AGE IN YEARS	
PRESENT USE		PRIOR USE	

6. PROCEDURE, INCLUDING ANALYTICAL METHOD, IF APPROPRIATE, USED TO DETECT THE PRESENCE OF ASBESTOS MATERIAL. INCLUDE A COPY OF THE ASBESTOS INSPECTION.

7. APPROXIMATE AMOUNT OF ASBESTOS, INCLUDING: A. REGULATED ACM (RACM) B. CATEGORY I ACM C. CATEGORY II ACM	RACM TO BE REMOVED	NONFRIABLE ASBESTOS MATERIAL TO BE REMOVED		NONFRIABLE ASBESTOS MATERIAL NOT TO BE REMOVED	
		CAT I	CAT II	CAT I	CAT II
PIPES (LINEAR FEET)					
SURFACE AREA (SQUARE FEET)					
VOL. RACM OFF FACILITY COMPONENT (CUBIC FEET)					

8. SCHEDULED DATES DEMO/RENOVATION (MM/DD/YY)			
START:		COMPLETION:	
9. SCHEDULED DATES ASBESTOS REMOVAL (MM/DD/YY)			
START:		COMPLETION:	WEEKDAY WORK HOURS
			WEEKEND WORK HOURS
10. DESCRIPTION OF PLANNED DEMOLITION OR RENOVATION WORK AND METHOD(S) TO BE USED			
11. DESCRIPTION OF WORK PRACTICES AND ENGINEERING CONTROLS TO BE USED TO PREVENT EMISSIONS OF ASBESTOS AT THE DEMOLITION OR RENOVATION SITE.			
12. WASTE TRANSPORTER			
NAME		ADDRESS	
CITY		STATE	ZIP CODE
CONTACT PERSON		TELEPHONE NUMBER WITH AREA CODE	
13. WASTE DISPOSAL SITE			
NAME			
LOCATION			
CITY		STATE	ZIP CODE
TELEPHONE NUMBER WITH AREA CODE			
14. IF DEMOLITION ORDERED BY A GOVERNMENT AGENCY, IDENTIFY THE AGENCY BELOW.			
NAME		TITLE	
AGENCY			
DATE OF ORDER (MM/DD/YY) INCLUDE A COPY OF THE ORDER.		DATE ORDERED TO BEGIN (MM/DD/YY)	
15. FOR EMERGENCY RENOVATIONS			
DATE AND HOUR OF EMERGENCY			
DESCRIPTION OF THE SUDDEN, UNEXPECTED EVENT			
EXPLANATION OF HOW THE EVENT CAUSED UNSAFE CONDITIONS OR WOULD CAUSE EQUIPMENT DAMAGE OR AN UNREASONABLE FINANCIAL BURDEN			
16. DESCRIPTION OF PROCEDURES TO BE FOLLOWED IN THE EVENT THAT UNEXPECTED ASBESTOS IS FOUND OR PREVIOUSLY NONFRIABLE ASBESTOS MATERIAL BECOMES CRUMBLLED, PULVERIZED OR REDUCED TO POWDER.			
17. I CERTIFY THAT AN INDIVIDUAL TRAINED IN THE PROVISIONS OF THIS REGULATION (40 CFR PART 61, SUBPART M) WILL BE ON-SITE DURING THE DEMOLITION OR RENOVATION AND EVIDENCE THAT THE REQUIRED TRAINING HAS BEEN ACCOMPLISHED BY THIS PERSON WILL BE AVAILABLE FOR INSPECTION DURING NORMAL BUSINESS HOURS (REQUIRED 1 YEAR AFTER PROMULGATION).			
SIGNATURE OF OWNER/OPERATOR			DATE
18. I CERTIFY THAT THE ABOVE INFORMATION IS CORRECT.			
SIGNATURE OF OWNER/OPERATOR			DATE

Missouri

Division of Labor Standards

WAGE AND HOUR SECTION



MICHAEL L. PARSON, Governor

Annual Wage Order No. 27

Section 036
FRANKLIN COUNTY

In accordance with Section 290.262 RSMo 2000, within thirty (30) days after a certified copy of this Annual Wage Order has been filed with the Secretary of State as indicated below, any person who may be affected by this Annual Wage Order may object by filing an objection in triplicate with the Labor and Industrial Relations Commission, P.O. Box 599, Jefferson City, MO 65102-0599. Such objections must set forth in writing the specific grounds of objection. Each objection shall certify that a copy has been furnished to the Division of Labor Standards, P.O. Box 449, Jefferson City, MO 65102-0449 pursuant to 8 CSR 20-5.010(1). A certified copy of the Annual Wage Order has been filed with the Secretary of State of Missouri.

Original Signed by

Taylor Burks, Director
Division of Labor Standards

Filed With Secretary of State: _____ **March 10, 2020**

Last Date Objections May Be Filed: **April 9, 2020**

Prepared by Missouri Department of Labor and Industrial Relations

OCCUPATIONAL TITLE	**Prevailing Hourly Rate
Asbestos Worker	\$34.67
Boilermaker	\$69.25
Bricklayer	\$57.93
Carpenter	\$57.11
Lather	
Linoleum Layer	
Millwright	
Pile Driver	
Cement Mason	\$53.39
Plasterer	
Communications Technician	*\$24.61
Electrician (Inside Wireman)	\$65.71
Electrician Outside Lineman	*\$24.61
Lineman Operator	
Lineman - Tree Trimmer	
Groundman	
Groundman - Tree Trimmer	
Elevator Constructor	*\$24.61
Glazier	\$61.92
Ironworker	\$62.11
Laborer	\$46.60
General Laborer	
First Semi-Skilled	
Second Semi-Skilled	
Mason	*\$24.61
Marble Mason	
Marble Finisher	
Terrazzo Worker	
Terrazzo Finisher	
Tile Setter	
Tile Finisher	
Operating Engineer	\$62.93
Group I	
Group II	
Group III	
Group III-A	
Group IV	
Group V	
Painter	\$48.71
Plumber	\$69.32
Pipe Fitter	
Roofer	\$51.99
Sheet Metal Worker	\$67.64
Sprinkler Fitter	\$61.55
Truck Driver	*\$24.61
Truck Control Service Driver	
Group I	
Group II	
Group III	
Group IV	

*The Division of Labor Standards received less than 1,000 reportable hours for this occupational title. Public works contracting minimum wage is established for this occupational title using data provided by Missouri Economic Research and Information Center.

**The Prevailing Hourly Rate includes any applicable fringe benefit amounts for each occupational title.

OCCUPATIONAL TITLE	**Prevailing Hourly Rate
Carpenter	\$55.33
Millwright	
Pile Driver	
Electrician (Outside Lineman)	*\$24.61
Lineman Operator	
Lineman - Tree Trimmer	
Groundman	
Groundman - Tree Trimmer	
Laborer	\$46.67
General Laborer	
Skilled Laborer	
Operating Engineer	\$63.02
Group I	
Group II	
Group III	
Group IV	
Truck Driver	\$41.47
Truck Control Service Driver	
Group I	
Group II	
Group III	
Group IV	

Use Heavy Construction Rates on Highway and Heavy construction in accordance with the classifications of construction work established in 8 CSR 30-3.040(3).

Use Building Construction Rates on Building construction in accordance with the classifications of construction work established in 8 CSR 30-3.040(2).

If a worker is performing work on a heavy construction project within an occupational title that is not listed on the Heavy Construction Rate Sheet, use the rate for that occupational title as shown on the Building Construction Rate Sheet.

*The Division of Labor Standards received less than 1,000 reportable hours for this occupational title. Public works contracting minimum wage is established for this occupational title using data provided by Missouri Economic Research and Information Center.

**The Prevailing Hourly Rate includes any applicable fringe benefit amounts for each occupational title.

OVERTIME and HOLIDAYS

OVERTIME

For all work performed on a Sunday or a holiday, not less than twice (2x) the prevailing hourly rate of wages for work of a similar character in the locality in which the work is performed or the public works contracting minimum wage, whichever is applicable, shall be paid to all workers employed by or on behalf of any public body engaged in the construction of public works, exclusive of maintenance work.

For all overtime work performed, not less than one and one-half (1½) the prevailing hourly rate of wages for work of a similar character in the locality in which the work is performed or the public works contracting minimum wage, whichever is applicable, shall be paid to all workers employed by or on behalf of any public body engaged in the construction of public works, exclusive of maintenance work or contractual obligation. For purposes of this subdivision, "**overtime work**" shall include work that exceeds ten hours in one day and work in excess of forty hours in one calendar week; and

A thirty-minute lunch period on each calendar day shall be allowed for each worker on a public works project, provided that such time shall not be considered as time worked.

HOLIDAYS

January First;
The last Monday in May;
July Fourth;
The first Monday in September;
November Eleventh;
The fourth Thursday in November; and
December Twenty-Fifth;

If any holiday falls on a Sunday, the following Monday shall be considered a holiday.

"General Decision Number: MO20200042 10/09/2020

Superseded General Decision Number: MO20190042

State: Missouri

Construction Type: Building

County: Franklin County in Missouri.

BUILDING CONSTRUCTION PROJECTS (does not include single family homes or apartments up to and including 4 stories).

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.80 for calendar year 2020 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.80 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2020. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/03/2020
1	02/14/2020
2	03/13/2020
3	06/05/2020
4	06/12/2020
5	07/03/2020
6	08/14/2020
7	09/11/2020
8	10/09/2020

ASBE0001-005 10/02/2017

	Rates	Fringes
ASBESTOS WORKER/HEAT & FROST INSULATOR.....	\$ 38.70	23.17

BOIL0027-001 01/01/2017

	Rates	Fringes
BOILERMAKER.....	\$ 35.41	30.04

BRM0001-007 06/05/2019

	Rates	Fringes
BRICKLAYER.....	\$ 36.94	21.46

BRM0018-002 07/01/2019

	Rates	Fringes
TILE FINISHER.....	\$ 28.34	16.21
TILE SETTER.....	\$ 32.47	17.30

CARP0002-005 05/01/2019

	Rates	Fringes
CARPENTER (Including Drywall Hanging & Form Work) Projects \$2 million and over.....	\$ 39.52	17.77
Projects under \$2 million...	\$ 25.90	17.77

CARP1310-001 05/01/2019

	Rates	Fringes
CARPENTER (Floor Laying-Carpet and Vinyl Only)....	\$ 34.21	17.17

ELEC0001-001 05/31/2020

	Rates	Fringes
ELECTRICIAN (Including Low Voltage Wiring Installer; Alarm, Computer & Telephone Installation).....	\$ 40.61	27.06

ELEV0003-001 01/01/2020

	Rates	Fringes
ELEVATOR MECHANIC.....	\$ 51.73	34.765+a+b

a. VACATION: Employer contributes 8% of basic hourly rate as vacation pay credit for more than 5 years of service; and 6% for 6 months to 5 years of service.

b. PAID HOLIDAYS: New Year's Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, the Friday after Thanksgiving Day and Christmas Day.

ENGI0513-003 05/06/2019

	Rates	Fringes
POWER EQUIPMENT OPERATOR:		
Backhoe/Excavator.....	\$ 34.36	27.36
Bobcat/Skid Loader.....	\$ 31.31	23.66
Crane.....	\$ 34.36	27.36
Forklift.....	\$ 34.36	27.36
Grader/Blade.....	\$ 34.36	27.36
Loader.....	\$ 34.36	27.36
Paver.....	\$ 34.36	27.36

Roller.....	\$ 34.36	27.36

IRON0396-001 08/07/2019		
	Rates	Fringes
IRONWORKER, ORNAMENTAL, REINFORCING, AND STRUCTURAL.....	\$ 34.91	27.36

LAB00840-002 03/01/2020		
	Rates	Fringes
LABORER		
PROJECTS \$500,000 AND OVER:		
Brick & Cement/Concrete		
Mason Tenders.....	\$ 29.86	13.84
Common or General; Asphalt Shoveler;		
Paplayer.....	\$ 27.71	12.74
Common or General; Asphalt Shoveler;		
paplayer.....	\$ 29.66	13.84
PROJECTS UNDER \$500,000:		
Brick & Cement/Concrete		
Mason Tenders.....	\$ 28.36	13.84
Common or General; Asphalt Shoveler;		
Pipelay.....	\$ 28.16	13.84

PAIN0002-001 09/01/2017		
	Rates	Fringes
PAINTER		
Brush & Roller.....	\$ 32.34	15.32
Drywall Finishing/Taping....	\$ 32.34	15.32

* PAIN0513-006 11/01/2019		
	Rates	Fringes
GLAZIER.....	\$ 39.52	23.73

PLAS0527-011 04/01/2019		
	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
Projects \$10 million and over.....		
	\$ 32.39	18.92
Projects less than \$10 million.....		
	\$ 31.69	18.92

PLUM0562-007 07/01/2020		
	Rates	Fringes
PIPEFITTER (HVAC Pipe Installation).....	\$ 43.60	27.85
PLUMBER, Excludes HVAC Pipe Installation.....	\$ 43.60	27.85

ROOF0002-001 03/01/2019		

	Rates	Fringes
ROOFER.....	\$ 33.30	18.41

SFM00268-002 01/01/2020		

	Rates	Fringes
SPRINKLER FITTER (Fire Sprinklers).....	\$ 45.21	24.62

SHEE0036-001 08/01/2020		

	Rates	Fringes
SHEET METAL WORKER, Includes HVAC Duct and Unit Installation.....	\$ 44.71	23.74

TEAM0682-003 04/01/2020		

	Rates	Fringes
TRUCK DRIVER, Includes Dump Truck.....	\$ 21.60	a+b

a.PAID HOLIDAYS: Christmas, Fourth of July, Labor Day, Memorial Day, New Years Day and Thanksgiving Day.

b.PAID VACATION: 1 week paid vacation after 2 years continuous service; 2 weeks paid vacation after 5 years continuous service; 3 weeks paid vacation after 10 years continuous service.

SUM02010-041 06/14/2010

	Rates	Fringes
OPERATOR: Hoist.....	\$ 26.02	13.01
PAINTER: Spray.....	\$ 17.78	0.00
PIPEFITTER, Excludes HVAC Pipe Installation.....	\$ 20.00	3.74

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

=====

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is

like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative

Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

=====

END OF GENERAL DECISION"