TOWN OF GLASTONBURY

INVITATION TO BID

<u>BID #</u>

ITEM

DATE & TIME REQUIRED

GL-2018-06

Glastonbury Parks Maintenance Facility Addition & Renovations February 15, 2018 at 11:00 A.M.

The Town of Glastonbury will receive Sealed Bids, in duplicate, for Glastonbury Parks Maintenance Facility Addition & Renovations, 1086 New London Turnpike, Glastonbury, CT. Bids will be received only at the Office of the Purchasing Agent, Town Hall (second level), 2155 Main Street, Glastonbury, CT 06033, Attention: Mary F. Visone, Purchasing Agent, until February 15, 2018 at 11:00 A.M. (local time), at which time they will be publicly opened and read aloud. No late bids will be accepted.

The Town reserves the right to waive informalities or reject any part of or the entire bid when said action is deemed to be in the best interest of the Town.

Bid Forms, Plans, and Specifications may be obtained at no cost from the Town's website at <u>www.glastonbury-ct.gov</u> or the State's website at <u>www.das.state.ct.us</u>.

An optional pre-bid meeting will be held at the Parks Maintenance Facility, 1086 New London Turnpike, Glastonbury, CT on January 26, 2018 @ 9:30 A.M. Interested Bidders are encouraged to attend.

Prevailing Wages: The contractor must comply with Section 31-53 of the Connecticut General Statutes as amended, including annual adjustments in prevailing wages.

Mary F. Visone Purchasing Agent

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 <u>TECHNICAL SPECIFICATIONS*</u> Final Site Survey Hazardous Materials Scope Sheet Hazardous Materials Abatement Plan 	FSS 1 - 5 TS 1 - 5 HM-1

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SCHEDULE OF DRAWINGS (dated July 31, 2017)

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C-101	Site Utility Plan
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GLASTONBURY PARKS MAINTENANCE FACILITY ADDITION & RENOVATIONS

- Plumbing General Notes, Abbreviations and Symbols Plumbing Demolition Floor Plan Plumbing Floor Plan P-001
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- P-101
- Plumbing Details P-201
- Plumbing Schedules P-301
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- 1. Sealed bids (**one original and one copy**) on the attached Bid Forms will be received at the Office of the Purchasing Agent, Town Hall, 2155 Main Street, Glastonbury, Connecticut 06033 (second level). At the designated time of opening, they will be publicly opened, read, recorded and placed on file.
- 2. Whenever it is deemed to be in the best interest of the Town, the Town Manager, Purchasing Agent or designated representative shall waive informalities in any and all bids. The right is reserved to reject any bid when such action is deemed to be in the best interest of the Town of Glastonbury.
- 3. The basis of the award will be to the lowest qualified, responsible and responsive bidder for the total lump sum bid price unless otherwise specified.
- 4. Bids will be carefully evaluated as to conformance with stated specifications.

5. <u>The envelope enclosing your bid should be clearly marked by bid number, time of bid</u> <u>opening, and date.</u>

- 6. <u>If a bid involves any exception from stated specifications, they must be clearly noted as exceptions, underlined, and attached to the bid.</u>
- 7. The Bid Documents contain the provisions required for the requested item. Information obtained from an officer, agent, or employee of the Town or any other person shall not affect the risks or obligations assumed by the Bidder or relieve him/her from fulfilling any of the conditions of the bid.
- 8. Each Bidder is held responsible for the examination and/or to have acquainted themselves with any conditions <u>at the job site</u> which would affect their work <u>before submitting a bid</u>. Failure to meet this criteria shall not relieve the Bidder of the responsibility of completing the bid <u>without extra cost</u> to the Town of Glastonbury.
- 9. 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 sixty (60) days after the actual date of the opening thereof. Should there be reasons why a bid cannot be awarded within the specified period, the time may be extended by mutual agreement between the Town and the Bidder.
- 10. Each bid must be accompanied by a bid bond payable to the Town for ten percent (10%) of the total amount of the bid. The bid bond of the successful Bidder will be retained until the payment bond and performance bond have been executed and approved, after which it will be returned. A certified check may be used in lieu of a bid bond. The Town of Glastonbury will not be liable for the accrual of any interest on any certified check submitted. Cashier's checks will not be accepted.
- 11. A 100% Performance and Payment bond are required of the successful bidder. This bond shall cover all aspects of the specification and shall be delivered to the Purchasing Agent prior to the issuance of a purchase order. The Performance and Payment Bond will be returned upon the delivery and acceptance of the bid items.
- 12. The Bidder agrees and warrants that in the submission of this sealed Bid, they will not discriminate or permit discrimination against any person or group of persons on the grounds of race, color, religion, national origin, sex, or physical disability including, but not limited to

blindness, unless it is shown by such Bidder that such disability prevents performance of that which must be done to successfully fulfill the terms of this sealed Bid or in any manner which is prohibited by the laws of the United States or the State of Connecticut: and further agrees to provide the Human Relations Commission with such information requested by the Commission concerning the employment practices and procedures of the Bidder. <u>An Affirmative Action</u> Statement will be required by the successful Bidder.

- 13. Bidder agrees to comply with all of the latest Federal and State Safety Standards and Regulations and certifies that all work required in this bid will conform to and comply with said standards and regulations. Bidder further agrees to indemnify and hold harmless the Town for all damages assessed against the Town as a result of Bidder's failure to comply with said standards and/or regulations.
- 14. All correspondence regarding any purchase made by the Town of Glastonbury shall reference the Town's purchase order number. Each shipping container shall clearly indicate both Town purchase order number and item number.
- 15. Bidder is required to review the Town of Glastonbury Code of Ethics adopted July 8, 2003 and effective August 1, 2003 and revised October 29, 2013 and effective November 8, 2013. Bidder shall acknowledge that they have reviewed the document in the area provided on the bid/proposal response page (BP). The selected Bidder will also be required to complete and sign an Acknowledgement Form prior to award. The Code of Ethics and the Consultant Acknowledgement Form can be accessed at the Town of Glastonbury website at www.glastonbury-ct.gov. Upon entering the website scroll down to click on Bids & Proposals Icon which will bring you to the links for the Code of Ethics and the Acknowledgement Form. If the Bidder does not have access to the internet, a copy of these documents can be obtained through the Purchasing Department at the address listed within this bid/proposal.
- 16. <u>Non-Resident Contractors</u>: (if applicable)

Upon award the Town is required to report names of nonresident (out of state) Contractors to the State of Connecticut, Department of Revenue Services (DRS) to ensure that Employment Taxes and other applicable taxes are being paid by Contractors. A single surety bond for 5% of the entire contract price is required to be filed with DRS by any unverified nonresident prime or general contractor (if awarded) where the contract price for the project is \$250,000 or more. The contractor will be required to promptly furnish to the Town a copy of the Form AU-968 - Certificate of Compliance issued by the State of Connecticut, DRS. See State of Connecticut Notice SN 2012 (2).

- 17. Bidder shall include on a sheet(s) attached to its proposal a complete disclosure of all past and pending mediation, arbitration and litigation cases that the bidder or its principals (regardless of their place of employment) have been involved in for the most recent five years. Please include a statement of the issues in dispute and their resolution. Acceptability of Bidder based upon this disclosure shall lie solely with the Town.
- 18. Bidder or its principals, regardless of their place of employment, shall not have been convicted of, nor entered any plea of guilty, or nolo contendere, or otherwise have been found civilly liable or criminally responsible for any criminal offense or civil action. Bidder shall not be in violation of any State or local ethics standards or other offenses arising out of the submission of bids or proposals, or performance of work on public works projects or contracts.
- 19. It is the responsibility of the bidder to check the Town's website before submitting bid for addendums posted prior to bid opening.

- 20. The Town of Glastonbury is dedicated to waste reduction and the practice of using and promoting the use of recycled and environmentally preferable products. Bidders are encouraged to submit bid responses that are printed double-sided (except for the signed proposal page) on recycled paper, and to use paper dividers to organize the bid for review. All bid pages should be secured with a binder clip, staple or elastic band, and shall not be submitted in plastic binders or covers, nor shall the bid contain any plastic inserts or pages. We appreciate your efforts towards a greener environment.
- 21. Compliance with Town Ordinance Prohibiting natural Gas Waste & Oil Waste From Natural Gas Extraction Activities or Oil Extraction Activities: If this bid is for the construction, repair or maintenance of Town owned and/or maintained roads or real property within the Town related to either (a) the purchase or acquisition of materials by the town to be used to construct, repair or maintain any Town owned and/or maintained road or real property within the Town or (b) the performance of services for the Town to construct, repair or maintained road or real property within the Town owned and/or maintained road or real property within the Town, the Bidder shall provide the following signed statement to the Town in its bid response, which shall be a certification under penalty of perjury by the Bidder:

"The undersigned Bidder, ______, hereby submits a bid for materials, equipment and/or services for the Town of Glastonbury. The bid is for bid documents titled **Refuse & Recycling Services Town and Board of Education Buildings, Facilities & Parks.**

The undersigned Bidder hereby certifies under penalty of perjury that in connection with the bid and, if it is awarded the purchase order or contract by the town, in connection with any purchase order or contract: (1) no materials containing natural gas waste or oil waste from natural gas extraction activities or oil extraction activities shall be provided to the Town or shall be used in providing any services to the Town by the undersigned Bidder or any contractor, sub-contractor or agent of the undersigned Bidder; (b) nor will the undersigned Bidder or any contractor, subcontractor or agent of the undersigned Bidder apply any natural gas waste or oil waste from natural gas extraction activities or oil extraction activities to any publicly owned and/or maintained road or real property within the Town of Glastonbury in performing its obligations under the purchase order or contract. The undersigned Bidder hereby agrees and acknowledges that this requirement shall be a term of the purchase order or contract, if it awarded the purchase order or contract by the Town, and any breach of this provision shall be a breach of the purchaser order or contract."

22. State Prevailing Wage Rates:

Respondents shall comply with State Statutes concerning Employment and Labor Practices, if applicable, and Section 31-53 of the Connecticut General Statutes, as amended (Prevailing Wages). Wage Rate Determination for this project from the State of Connecticut is included in the Bid Documents. Certified payrolls for site labor shall be submitted weekly to the Town's Representative or his designee on the correct State of Connecticut form. The Town reserves the right to, without prior notice, audit payroll checks given to workers on site in order to ascertain that wages and fringe benefits are being paid as required by the State of Connecticut. Please make special note of the State requirement to adjust wage and fringe benefit rates on each July 1st following the original published rates.

NOTE that respondent is to include in its proposal all costs required by such annual increases in the PREVAILING RATES. NO escalation clauses are to be included in the respondent's proposal and NO escalation clauses will be in the Contract Agreement. Respondent is to anticipate any future increases and include these costs in the proposal response.

Contractor's invoices will not be paid if certified payrolls are incomplete, incorrect or not received in a timely manner.

All Apprentices must be registered with the State of Connecticut and their number shall not exceed the number allowed by law. Otherwise, all workers must be paid at least the Journeyman rate listed including benefits.

OSHA SAFETY AND HEALTH CERTIFICATION

<u>Effective July 1, 2009</u>: Any Mechanic, Laborer, or Worker, who performs work in a classification listed on the prevailing wage rate schedule on any public works project covered under C.G.S. Section 31-53, both on site and on or in the public building, must have completed a federal OSHA Safety and Health course within the last 5 years.

- 23. <u>Each bid shall also include a description of three (3) projects completed by the bidder with references to demonstrate successful experience with similar projects.</u>
- 24. Any technical questions regarding this bid shall be made in writing (email acceptable) and directed to Raymond E. Purtell, Director of Parks and Recreation, at (860) 652-7687 or email ray.purtell@glastonbury-ct.gov. For administrative questions concerning this bid/proposal, please contact Mary F. Visone, Purchasing Agent, at (860) 652-7588 or email the Purchasing Department at purchasing@glastonbury-ct.gov. All questions, answers, and/or addenda, as applicable, will be posted on the Town's website at www.glastonbury-ct.gov (Upon entering the website scroll down to click on Bids & Proposals Icon, then scroll down page to see the active bid table. You must click the Bid Title to view all bid details and document links). The request must be received at least seven (7) business days prior to the advertised response deadline. It is the respondent's responsibility to check the website for addenda prior to submission of any bid/proposal.

IMPORTANT:

- Failure to comply with general rules may result in disqualification of Bidder.
- Municipal projects and exempt from Federal Excise Taxes, as well as, State of Connecticut Sales, Use and Service Taxes and should not be included with the Bidder's proposal.

01.00 WORKMANSHIP, MATERIALS AND EMPLOYEES

- 01.01 Wherever in this contract the word "Engineer" is used, it shall be understood as referring to the Director of Parks & Recreation acting through any assistants duly authorized.
- 01.02 The entire work described herein shall be completed in accordance with the plans and specifications to the full intent and meaning of the same. Unless otherwise specified, all materials incorporated in the permanent work shall be new, and both workmanship and material shall be of good quality. The Contractor shall, if required, furnish satisfactory evidence as to the kind and quality of materials.
- 01.03 The wording "furnish", "install", "construct", "furnish and install", or any similar terms, unless specifically noted to the contrary, shall include all labor, materials, water, tools, equipment, light, power, transportation, and any other services required for the completion of the work.
- 01.04 The Contractor shall at all times enforce strict discipline and good order among his employees, and shall seek to avoid employing on the work any unfit person or anyone not skilled in the work assigned to him.

02.00 SUPERINTENDENT

02.01 The Contractor shall keep on the work during its progress, in the absence of the Contractor, a competent Superintendent. The Superintendent shall be acceptable to the Engineer and shall fully represent the Contractor. All directions given to the Superintendent shall be binding as if given to the Contractor.

03.00 PRECONSTRUCTION MEETING

03.01 A Preconstruction Meeting will be held with the Engineer, Contractor, and any private utility company prior to commencing any work. The Engineer shall arrange the meeting based on a mutually convenient time.

04.00 PERMITS

04.01 Other than local permits, all permits, licenses, and fees required for the performance of the Contract work shall be secured and paid for by the Contractor. The local building permit feel will be waived with the exception of the portion that is payable to the State Education Fund; .26/\$1,000 of construction.

05.00 PROPERTY ACCESS

- 05.01 The Contractor shall take all proper precautions to protect from injury or unnecessary interference, and provide proper means of access to abutting property where the existing access is cut off by the Contractor.
- 05.02 The Contractor shall take all proper precautions to protect persons from injury or unnecessary inconvenience and leave an unobstructed way along the public and private places for travelers, vehicles, and access to hydrants.

- 05.03 The Contractor shall make arrangements with the adjacent property owners for such trespass as he may reasonably anticipate in the performance of the work. All such arrangements shall be reported, in writing, to the Engineer.
- 05.04 The property will need to continue to function throughout the construction period. Construction sequencing will need to consider building occupant accessibility, access to water and restrooms, access to all utilities including data and telephone. Periodic intermittent service interruptions will need to be coordinated with the Town in advance.

06.00 PROTECTION OF THE PUBLIC AND OF WORK AND PROPERTY

- 06.01 The Contractor shall continuously maintain adequate protection of all work from damage, and shall take all reasonable precautions to protect the Town from injury or loss arising in connection with the Contract.
- 06.02 The Contractor shall adequately protect adjacent private and public property as provided by law and the Contract Documents.
- 06.03 The Contractor shall make good any damage, injury, or loss of his work and to the property of the Town resulting from lack of reasonable protective precautions.

07.00 EXISTING IMPROVEMENTS

- 07.01 The Contractor shall conduct his work so as to minimize damage to existing improvements. Except where specifically stated otherwise in the specifications, drawings, or as directed by the Engineer, it will be the responsibility of the Contractor to restore to their original condition, as near as practical, all improvements on public or private property. This shall include:
 - a. Property within and adjacent to the side of installation such as shrubs, walks, driveways, fences, etc.
 - b. Utility mains, ducts, poles, and services. The Contractor is hereby notified that utilities, if/where shown on the plans, are at approximate locations. These locations are subject to possible errors in the source of information and errors in transcription. The Contractor shall make certain of the exact location of all mains, ducts, poles, and services prior to excavation.

08.00 SEPARATE CONTRACTS

08.01 The Engineer reserves the right to let other contracts in connection with this work. The Contractor shall afford other contractors reasonable opportunity for the introduction and storage of their materials and the execution of their work, and shall properly connect and coordinate his work with theirs. Wherever work being done by the Town of Glastonbury forces or by other contractors is contiguous to work covered by this Contract, the respective rights of the various interests involved shall be established by the Engineer to secure the completion of the various portions of the work.

09.00 INSPECTION OF WORK

- 09.01 The Town shall provide sufficient personnel for the inspection of the work.
- 09.02 The Engineer shall at all times have access to the work whenever it is in preparation or progress, and the Contractor shall provide proper facilities for such access and for inspection.
- 09.03 If the specifications or the Engineer's instructions require any work to be specially tested or approved, the Contractor shall give the Engineer timely notice of its readiness for inspection and, if the inspection is by another authority other than the Engineer, of the date fixed for such inspection. Inspections by the Engineer shall be made promptly. If any work should be covered up without approval or consent of the Engineer, it must, if required by the Engineer, be uncovered for examination and properly restored at the Contractor's expense.
- 09.04 Reinspection of any work may be ordered by the Engineer. If such work is found to be in accordance with the Contract Documents, the Town shall pay the cost of reinspection and replacement. If such work is not in accordance with the Contract Documents, the Contractor shall pay such cost.

10.00 RIGHT TO INCREASE OR DECREASE WORK

10.01 The Town shall have the right to increase or decrease the amount of work herein specified as may be required.

11.00 RIGHT OF ENGINEER TO STOP WORK FOR WEATHER CONDITIONS

11.01 Should the work, in the opinion of the Engineer, be in danger by reason of inclemency of weather, or could not be finished in time to prevent such danger, the Contractor shall cease operations upon order of the Engineer, and shall not resume them until ordered to do so by the Engineer when the weather conditions are favorable. The Contractor shall, upon such orders, discontinue work, remove all materials or appliances for or in use upon the work, and place the building in proper condition for use by the Town during the time the work is suspended as herein provided, without additional cost to the Town.

12.00 CONTRACTOR TO BE RESPONSIBLE FOR IMPERFECT WORK OR MATERIALS

12.01 Any faithful work or imperfect material that may be discovered before the acceptance and the payment of the work shall be corrected upon the order of the Engineer. The acceptance and payment of the work does not in any manner relieve the Contractor of his obligation to construct work in the proper manner and the use of materials herein specified.

13.00 TOWN MAY NOTIFY CONTRACTOR IF WORK IS NOT CARRIED ON SATISFACTORILY

- 13.01 If, in the opinion of the Engineer, the Contractor is not proceeding with the work at a sufficient rate of progress so as to finish in the time specified, or has abandoned said work, or is not complying with the terms and stipulations or the Contract and specifications, the Engineer may serve notice on the Contractor to adopt such methods as will ensure the completion of the work in the time specified.
- 13.02 If, within five days after the Engineer has notified the Contractor that his work is not being carried on satisfactorily as before mentioned, the Engineer shall have the right to annul the Contract and manage the work under the direction of the Engineer, or re-let, for the very best interest of the Town as a new contract, the work under said new Contract shall be considered the responsibility of the defaulting Contractor.
- 13.03 Additional costs incurred over and above the original Contract shall be borne by the Performance Bond.

14.00 DEDUCTIONS FOR UNCORRECTED WORK

- 14.01 If the Engineer deems it inexpedient to correct work that has been damaged or that was not done in accordance with the Contract, an equitable deduction from the Contract price shall be made therefor.
- 14.02 The Contractor shall promptly remove from the premises all materials condemned by the Engineer as failing to meet Contract requirements, whether incorporated in the work or not, and the Contractor shall promptly replace and re-execute his own work in accordance with the Contract and without expense to the Town, and shall bear the expense of making good all work by other contractors destroyed or damaged by such removal or replacement.
- 14.03 If the Contractor does not remove such condemned work and materials as promptly as possible after written notice, the Engineer may remove them and store the materials at the expense of the Contractor.

15.00 CLEANING UP

- 15.01 The Contractor must remove all debris of every description as the work progresses and leave the surroundings in a neat and orderly condition to the satisfaction of the Engineer.
- 15.02 Upon completion, and before acceptance and final payment, the Contractor shall remove from the site all equipment, forms, surplus material, rubbish and miscellaneous debris and leave the site in a neat and presentable condition.

16.00 ROYALTIES AND PATENTS

16.01 The Contractor shall pay all royalties and license fees. He shall defend all suits or claims for infringement of any patent rights and shall save the Town of Glastonbury harmless from loss on account thereof, except that the Town of Glastonbury shall be responsible for all such loss when a particular manufacturer, product, or process is specified by the Town of Glastonbury.

GLASTONBURY PARKS MAINTENANCE FACILITY ADDITION & RENOVATIONS SPECIAL CONDITIONS

01.00 NOTICE TO CONTRACTOR

- 01.01 <u>Intent of Contract</u>: The intent of the Contract is to prescribe a complete work or improvement that the Contractor undertakes to do, in full compliance with the specifications, plans, special provisions, proposal, and Contract. The Contractor shall perform all work in close conformity with the lines, grades, typical cross-sections, dimensions, and other data shown on the plans or as modified by written orders, including the furnishing of all materials, implements, machinery, equipment, tools, supplies, transportation, labor, and all other things necessary to the satisfactory prosecution and completion of the project.
- 01.02 Much time and effort has gone into this project in an effort to minimize impact on trees and adjacent properties. Extreme care shall be taken by the Contractor to honor commitments made by the Town. Prior to doing any work, the Contractor should meet with the Engineer to become familiar with the conditions encountered and commitments made.

02.00 COMMUNICATIONS

- 02.01 All notices, demands, requests, instructions, approvals, proposals, and claims must be in writing.
- 02.02 Any notice to, or demand upon, the Contractor shall be sufficiently given if delivered at the office of the Contractor stated on the signature page of the Agreement (or at such other office as the Contractor may, from time to time, designate) in a sealed, postage-prepaid envelope or delivered with charges prepaid to any telegraph company for transmission, in each case addressed to such office.
- 02.03 All papers required to be delivered to the Town shall, unless otherwise specified in writing to the Contractor, be delivered to the Director of Parks and Recreation, 2155 Main Street, Glastonbury, CT 06033, and any notice to, or demand upon, the Town shall be delivered at the above address in a sealed, postage-prepaid envelope or delivered with charges prepaid to any telegraph company for transmission, in each case addressed to such office or to such other representatives of the Town, or to such other address as the Town may subsequently specify in writing to the Contractor for such purpose.
- 02.04 Any such notice shall be deemed to have been given as of the time of actual delivery or, in case of mailing, when the same should have been received in due course of post or, in the case of telegrams, at the time of actual receipt, as the case may be.

03.00 INSURANCE

03.01 The Bidder shall, at its own expense and cost, obtain and keep in force during the entire duration of the Project or Work the following insurance coverage covering the Bidder and all of its agents, employees and sub-contractors and other providers of services and shall name the **Town of Glastonbury and its employees and agents as an Additional Insured** on a primary and non-contributory basis to the Bidders Commercial General Liability and Automobile Liability policies. <u>These requirements shall be clearly stated</u> in the remarks section on the Bidders Certificate of Insurance. Insurance shall be

written with insurance carriers approved in the State of Connecticut and with a minimum Best's Rating of A-VIII. In addition, all carriers are subject to approval by the Town. Minimum Limits and requirements are stated below:

- a. <u>Worker's Compensation Insurance</u>:
 - Statutory Coverage
 - Employer's Liability
 - \$500,000 each accident/\$500,000 disease-policy limit/\$500,000 disease each employee
 - A Waiver of Subrogation shall be provided in favor of the Town of Glastonbury and its employees and agents.
- b. <u>Commercial General Liability</u>:
 - Including Premises and Operations, Products and Completed Operations, Personal and Advertising Injury, Contractual Liability and Independent Contractors
 - Limits of Liability for Bodily Injury and Property Damage Each Occurrence: \$1,000,000 Aggregate: \$2,000,000 (The Aggregate Limit shall apply separately to each job.)
 - A Waiver of Subrogation shall be provided in favor of the Town of Glastonbury and its employees and agents.
- c. <u>Automobile Insurance</u>:
 - Including all owned, hired, borrowed, and non-owned vehicle
 - Limit of Liability for Bodily Injury and Property Damage Per Accident: \$1,000,000
 - A Waiver of Subrogation shall be provided in favor of the Town of Glastonbury and its employees and agents.
- d. <u>Umbrella of Excess Liability</u>:
 - Limit of Liability Each Occurrence \$1,000,000 Aggregate \$2,000,000
- 03.02 The Bidder shall direct its Insurer to provide a Certificate of Insurance to the Town before any work is performed. The Contractor shall be responsible to notify the Town 60 days in advance with written notice of cancellation or non-renewal. The Certificate shall evidence all required coverage. The Bidder shall provide the Town copies of any such insurance policies upon request.
- 03.03 INDEMNIFICATION: To the fullest extent permitted by law, the Contractor shall indemnify and hold harmless the Town and its consultants, agents, and employees from and against all claims, damages, losses and expenses, direct, indirect or consequential (including but not limited to fees and charges of engineers, attorneys and other professionals and court and arbitration costs) to the extent arising out of or resulting from the performance of the Contractor's work, provided that such claim, damage, loss or

expense is caused in whole or in part by any negligent act or omission by the Contractor, or breach of its obligations herein or by any person or organization directly or indirectly employed or engaged by the Contractor to perform or furnish either of the services, or anyone for whose acts the Contractor may be liable.

04.00 WORK BY OTHERS

05.01 Private utilities, contractors, developers or other parties may be expected to be working within the Contract area during this Contract. It shall be the responsibility of the Contractor to coordinate his work with the work being done by others in order that the construction shall proceed in an efficient and logical manner. The Contractor shall have no claim or claims whatever against the Town, the Engineer, or other parties due to delays or other reasons caused by the work by others or his failure to coordinate such work.

05.00 CONTRACTOR'S WORK AND STORAGE AREA

05.01 The Contractor shall contact the Town to determine if any specific locations will be designated, or gain its approval prior to using any area for storage of equipment, materials and trailers during the period of this Contract. The Contractor shall confine his work/storage area to the limits as designated or approved and shall be responsible for the security of the work/storage area. Upon completion of the Contract, the Contractor shall remove all equipment and materials, except as otherwise specified, and restore the site to its original condition as approved by the Engineer and at no cost to the Town.

06.00 DISPOSAL AREA

06.01 The Tryon Street Bulky Waste Facility will be available to the Contractor, at no charge, for disposal of materials that are accepted at that facility. Waste disposal guidelines for the Bulky Waste facility are published on the Town web site at the address shown below. Each bidder shall have reviewed and understand these guidelines prior to submitting a bid for the project.

http://www.glastonbury-ct.gov/Modules/ShowDocument.aspx?documentid=699

Acceptable materials generally include such materials as brush, stumps, demolition materials, and excess excavated earth materials. Unacceptable materials generally include such items as carpet, appliances, upholstered furniture; hazardous wastes such as pesticides, oil based paints and thinners; or other wastes as designated by the State Department of Environmental Protection. Demolition material cannot contain asbestos or other hazardous materials.

The Contractor shall obtain a disposal area for all other unsuitable or surplus materials at no cost to the Town.

07.00 DUST CONTROL

07.01 During the progress of the work, the Contractor shall conduct his operations and maintain the area of his activities so as to minimize the creation and dispersion of dust. If the Engineer decides that it is necessary to use water or calcium chloride for more effective dust control, the Contractor shall furnish and spread the material, as directed, without additional compensation.

08.00 MAINTENANCE / GUARANTEE PERIOD

08.01 The Contractor shall be held responsible to the Town for maintenance for a minimum of one-year following completion of all work under this Contract with respect to defects, settlements, etc., unless specified otherwise in the Technical Specifications.

09.00 **PROTECTION OF EXISTING UTILITIES**

- 09.01 Prior to opening an excavation, effort shall be made to determine whether underground installations, (i.e., sewer, water, fuel, electric lines, etc.) will be encountered and, if so, where such underground installations are located. Before starting any excavation, the Contractor shall submit to the Engineer plans or details showing the proposed method the Contractor will use to support and protect all existing utilities during construction. The furnishing of such plans and details shall not serve to relieve the Contractor of any responsibility for the proper conduct of the work.
- 09.02 When the excavation approaches the estimated location of such an installation, the exact location shall be determined by careful probing or hand digging, and when it is uncovered, proper supports shall be provided for the existing installation. Utility companies shall be contacted and advised of proposed work prior to the start of actual excavation.
- 09.03 There will be no extra payment for submitting plans or details for supporting and protecting all existing utilities during construction.

10.00 TIME FOR COMPLETION/NOTICE TO PROCEED

10.01 It is the Town's intention to provide the Contractor with access to the site for construction operations on April 1, 2018. Prepatory work including ordering, Call Before You Dig, submission of submittals, etc. can precede that date, however, on-site construction activity cannot begin before April 1, 2018. It is the intention of the Town to have the Contractor achieve substantial completion of the work no later than August 31, 2018. As such, the Town will schedule a pre-construction meeting immediately upon award of this contract and will issue a Notice to Proceed at this meeting. Contractors who submit a bid for this project shall be prepared to respond to this schedule, and include all costs related to this schedule in their bid.

Within ten (10) business days after the date of the Notice of Award, the Contractor must provide the appropriate bonds and insurance certificates to the Town Purchasing Agent and must be issued a Notice to Proceed by Purchase Order for the Project prior to initiating any work.

- 10.02 Scheduling the work required under this contract requires close coordination with other trades, contractors, and the Owner. The Contractor needs to be prepared to fit work required under this contract within the logical and orderly progression of the work on the entire project. Progression of the project may also require the Contractor to complete work required under this contract in multiple phases, as a phased approach to construction is envisioned. No additional costs will be paid by the Owner as a result of phasing or multiple mobilizations.
- 10.03 Because it is the intention of the Town to ensure full operation of the Park Maintenance Facility effective August 31, 2018, it is imperative that substantial completion of the work be achieved on or before August 31, 2018.

11.00 SCHEDULE OF DRAWINGS

11.01 The Contractor is hereby alerted that the plan set is entitled "Town of Glastonbury, Glastonbury Parks Maintenance Facility Addition & Renovations, 1086 New London Turnpike, Glastonbury, CT; July 31, 2017, Revision #1 September 29, 2017", including 31 Sheets.

12.00 CHANGES IN THE WORK

12.01 The Town reserves the right to perform portions of the work in connection with these plans and specifications. The reduction in the work to be performed by the Contractor shall be made without invalidating the Contract. Whenever work is done by the Town contiguous to other work covered by this Contract, the Contractor shall provide reasonable opportunity for the execution of the work and shall properly coordinate his work with that of the Town.

13.00 BUILDING USE AND OCCUPANCY

The property will need to continue to function throughout the construction period. Construction sequencing will need to consider occupant accessibility, access to water and restrooms, access to all utilities including data and telephone. Periodic intermittent service interruptions will need to be coordinated with the Town in advance.

Contractor parking and laydown areas will also need to be coordinated with the Town in advance at the pre-construction meeting.

14.00 WORK HOURS

Work is general permitted Monday-Friday, 7:00 a.m. - 3:30 p.m. Hours beyond 3:30 p.m. and/or on Saturdays can be scheduled in advance with the Town.

Limited Hazardous Building Materials Inspection

September 20, 2017 Additions and Renovations Glastonbury Parks Maintenance Facility 1086 New London Turnpike Glastonbury, CT

Town of Glastonbury

Glastonbury, CT

September 28, 2017



Fuss & O'Neill EnviroScience, LLC 146 Hartford Road Manchester, CT 06040

Project No. 20170772.A1E



September 28, 2017

Mr. Ray Purtell Director of Parks & Recreation Town of Glastonbury 2143 Main Street Glastonbury, CT 06033

Re: Limited Hazardous Building Materials Inspection Additions and Renovations Glastonbury Parks Maintenance Facility 1086 New London Turnpike, Glastonbury, CT Fuss & O'Neill EnviroScience Project No. 20170772.A1E

Dear Mr. Purtell:

Enclosed is the report for the limited hazardous building materials inspection conducted in response to proposed renovations for the Glastonbury Parks Maintenance Facility located at 1086 New London Turnpike in Glastonbury, Connecticut. The work was conducted for the Town of Glastonbury (the "Client").

The services were performed on September 20, 2017 by Fuss & O'Neill EnviroScience, LLC licensed inspector and included a limited asbestos inspection, lead-based paint determination, lead waste characterization, and an inventory of PCB-containing ballasts and mercury-containing equipment. The information summarized in this report is for the above-mentioned materials only. The work was performed in accordance with our written proposal dated September 1, 2017.

If you should have any questions regarding the contents of this report, please do not hesitate to contact me at (860) 646-2469, extension 5574. Thank you for this opportunity to have served your environmental needs.

Sincerely,

Eduardo Miguel Marques // Senior Environmental Analyst

Connecticut Massachusetts Rhode Island

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146 Hartford Road Manchester, CT

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> > EMM/kr

Enclosure

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1 Introduction

On September 20, 2017, Fuss & O'Neill EnviroScience, LLC (EnviroScience) representative Scott Mossey performed a limited hazardous building materials inspection for proposed renovations to the Glastonbury Parks Maintenance Facility located at 1086 New London Turnpike in Glastonbury, Connecticut (the "Site"). The work was conducted for the Town of Glastonbury (the "Client") in accordance with our written scope of services dated September 1, 2017 and is subject to the limitations included in *Appendix A*.

The inspection included the following:

- limited asbestos-containing material (ACM) inspection;
- lead-based paint (LBP) determination;
- lead waste characterization;
- presumed polychlorinated biphenyls (PCB) visual identification ; and
- PCB-containing light ballasts and mercury-containing equipment inventory.

This limited hazardous building materials inspection was performed in response to proposed renovations as detailed by the renovation plans dated July 31, 2017 submitted by Northeast Collaborative Architects, LLC.

This inspection was limited to non-invasive and discrete sampling techniques. Specific areas that were not inspected include the following:

- Beneath window and door frames;
- Within mechanical equipment;
- Beneath foundation slabs;
- Exterior roofing;
- Spaces above fixed ceilings, solid walls and between and beneath floors; and
- Concealed pipe chases.

We have excluded collection and analysis of building materials for PCBs. Sampling for PCBs is presently not mandated by the Environmental Protection Agency (EPA); however, significant liability risk for disposing of PCB-containing wastes exists. Recent knowledge of PCBs within these matrices has become more prevalent, especially with remediation contractors, waste haulers, and disposal facilities. Many property Owners have become subject to large changes in schedule, scope, and costs as a result of failure to identify this possible contaminant prior to renovation or demolition.

2 Limited Asbestos Inspection

A property Owner must ensure that a thorough ACM inspection is performed prior to possible disturbance of suspect ACM during renovation or demolition activities. This is a requirement of the EPA National Emission Standards for Hazardous Air Pollutants (NESHAP) regulation located at Title 40 CFR, Part 61, Subpart M.



On September 20, 2017, Mr. Mossey of EnviroScience conducted a limited inspection. Mr. Mossey is a State of Connecticut Department of Public Health (CTDPH)-licensed Asbestos Inspector. Refer to *Appendix B* for the Asbestos Inspector license and accreditation.

2.1 Methodology

The inspection was conducted by visually inspecting for suspect ACM and touching each of the suspect materials. The suspect materials were categorized into three EPA NESHAP groups: friable and non-friable Category I and Category II type ACM.

- A Friable Material is defined as material that contains greater than 1 percent (> 1%) asbestos that when dry **can** be crumbled, pulverized, or reduced to powder by hand pressure.
- A Category I Non-Friable Material refers to material that contains > 1% asbestos (i.e., packings, gaskets, resilient floor coverings, and asphalt roofing products) that when dry cannot be crumbled, pulverized, or reduced to powder by hand pressure.
- A Category II Non-Friable Material refers to any non-friable material excluding Category I materials that contain > 1% asbestos that when dry **cannot** be crumbled, pulverized, or reduced to powder by hand pressure.

The suspect ACM were also categorized into their applications including Thermal System Insulation (TSI), Surfacing ACM (S), and Miscellaneous ACM (M). TSI includes those materials used to prevent heat loss/gain or water condensation on mechanical systems. Examples of TSI are pipe insulation, boiler insulation, duct insulation, and mudded pipe fitting insulations. Surfacing ACM includes those ACM that are applied by spray, trowel, or otherwise applied to an existing surface. Surfacing ACM is commonly used for fireproofing, decorative, and acoustical applications. Miscellaneous materials include those ACM not listed as thermal or surfacing, such as linoleum, vinyl asbestos flooring, ceiling tiles, caulkings, glues, construction adhesives, etc.

The EPA recommends collecting suspect ACM samples in a manner sufficient to determine asbestos content and to segregate each suspect type of homogenous (similar in color, texture, and date of application) materials. The EPA NESHAP regulation does not specifically identify a minimum number of samples to be collected for each homogeneous material, but the NESHAP regulation does recommend the use of sampling protocols included in Title 40 CFR, Part 763, Subpart E: Asbestos Hazard Emergency Response Act (AHERA).

The EPA AHERA regulation requires a specific number of samples be collected based on the type of material and quantity present. This regulation includes the following protocol:

- 1. Surfacing Materials (S) (i.e., plasters, spray-applied fireproofings, etc.) must be collected in a randomly distributed manner representing each homogenous area based on the overall quantity represented by the sampling as follows:
 - a. Three (3) samples collected from each homogenous area that is less than or equal to 1,000 square feet.
 - b. Five (5) samples collected from each homogenous area that is greater than 1,000 square feet but less than or equal to 5,000 square feet.



- c. Seven (7) samples collected from each homogenous area that is greater than 5,000 square feet.
- 2. Thermal System Insulation (TSI) (i.e., pipe insulations, tank insulations, etc.) must be collected in a randomly distributed manner representing each homogenous area. Three (3) samples must be collected from each material. Also, a minimum of one (1) sample of any patching materials applied to TSI presuming the patched area is less than 6 linear or square feet should be collected.
- 3. Miscellaneous materials (M) (i.e., floor tile, gaskets, construction mastics, etc.) should have a minimum of two (2) samples collected for each type of homogenous material. Sample collection was conducted in a manner sufficient to determine asbestos content of the homogenous material as determined by the inspector.

The inspector collected samples of those suspect ACM anticipated to be disturbed by proposed renovation activities, and prepared proper chain-of-custody forms for transmission of the samples to EMSL Analytical Inc. for analysis. EMSL is a Connecticut-licensed and American Industrial Hygiene Association (AIHA)-accredited asbestos laboratory. The sample locations, material type, sample identification, and asbestos content are identified by bulk sample analysis in **Table 1** attached hereto. Suspect ACM not listed in the table that may be identified at a later date at the Site, should be assumed to be ACM until sample collection and analysis indicate otherwise. Initial asbestos sample analysis was conducted using the EPA Interim Method for the Determination of Asbestos in Bulk Building Materials (EPA/600/R-93/116) via Polarized Light Microscopy with Dispersion Staining (PLM/DS).

If samples of suspect materials could not be collected or were inaccessible but observed elsewhere, these materials were assumed to contain asbestos and the inspector approximated quantities. Also, intrusive or destructive investigative techniques were performed at the Site to access and observe concealed areas that may have had suspect ACMs that were hidden or obstructed from normal view. Exploratory destructive techniques were limited to the exterior walls which were depicted to be impacted by selective demolition. The following hard enclosures or obstructed areas were not inspected:

- wall cavities;
- pipe chases;
- spaces above fixed ceilings; and
- vapor/moisture barrier under floors or on concrete foundations.

Subsurface investigations including, but not limited to, concrete foundations were not performed. Also, EnviroScience did not conduct subsurface investigations to identify suspect cementitious pipe throughout the Site.

2.2 Building and Mechanical System Description

The building is a one-story structure with no basement. The building contains approximately 7,500 square feet (SF) of total floor area. The building is heated by a radiant heat boiler system with rooftop ventilating and air conditioning (HVAC) units. Portions of the building are utilized as office space and



other areas of the building are utilized as maintenance and repair bays for various mechanical equipment. Interior building materials include lay in acoustical ceiling tiles, sheetrock and concrete block walls. Flooring includes vinyl floor tile, carpet, ceramic, and concrete. The exterior is comprised of concrete blocks with a flat built up roof system. A small porch overhang is located in front of the main entrance to the facility.

2.3 Results

Utilizing the EPA protocol and criteria, the following materials were determined to be ACM:

• Floor tiles and mastic - Bathroom #1

The following materials were determined to contain trace amounts of asbestos (<1%):

• Yellow/tan cove base/mastic - Break room

Refer to Table 1 for a complete list of non-ACM identified as part of this inspection. Refer to Table 2 attached hereto for the ACM inventory. Refer to Appendix C for the asbestos laboratory report and chain-of-custody forms. Refer to Appendix D for site photographs.

2.4 Discussion

The EPA, the Occupational Safety and Health Administration (OSHA), and the CTDPH, define a material that contains greater than one percent (> 1%) asbestos, utilizing PLM/DS, as being an ACM. Materials that are identified as "none detected" are specified as not containing asbestos.

Additionally, the EPA has suggested that materials that are non-friable organically bound (NOB) materials (e.g., asphaltic-based materials, adhesives, etc.) are recommended for further confirmatory analysis utilizing Transmission Electron Microscopy (TEM). Twenty- six (26) of the collected samples were recommended to be analyzed by TEM. The results of TEM analysis are denoted in **Table 1**.

2.5 Conclusions and Recommendations

Based on visual observations, sample collection, and laboratory analysis, ACM are present at the Site.

Prior to disturbance, ACM that will be impacted by the proposed renovation/demolition activities must first be abated by a state-licensed Asbestos Abatement Contractor. This is a requirement of CTDPH and EPA NESHAP regulations governing asbestos abatement.

Due to the inability to effectively separate some types of multi-layered ACM (e.g., floor tile/mastic, gypsum board/joint compound, mastic/plywood, etc.) from non-ACM, these materials are considered asbestos-contaminated and must be managed as ACM for the purposes of removal and disposal.



Suspect materials encountered during renovation/demolition that are not identified in this report as being non-ACM should be presumed to be ACM until sample collection and laboratory analysis indicate otherwise. Prior to renovation/demolition that may disturb hidden/inaccessible areas, we recommend conducting a supplemental asbestos inspection of these areas and spaces.

Materials are present at the Site location where concentrations of asbestos are less than 1% (< 1%). While the EPA and the CTDPH identify materials containing < 1% as a non-asbestos containing material, Occupation Safety and Health Administration (OSHA) worker protection regulations apply to materials containing any amount of asbestos. The cove base mastic associated with the 4" tan cove base located in the Break room area was found to contain trace amounts of asbestos (<1%).

EnviroScience recommends that if any ACMs are to remain in the building following renovation/demolition activities, the ACM should be managed in-place under a written Operations and Maintenance Program in accordance with OSHA regulations.

This report is not intended to be utilized as a bidding document or as a project specification document. The report is designed to aid the building owner, architect, construction manager, general contractors, and asbestos abatement contractors in locating identified ACM.

3 Lead-Based Paint Determination

On September 20, 2017, Mr. Mossey of EnviroScience performed a lead-based paint (LBP) determination associated with coated building components at the Site that may be disturbed during renovation activities. An X-ray fluorescence (XRF) analyzer was used to perform the LBP determination. The determination was conducted in accordance with generally-accepted industry standards for non-residential or buildings which are not child-occupied.

3.1 Methodology

A Radiation Monitoring Device Model LPA-1, serial number 1377, was utilized for the LBP determination. The instrument was checked for proper calibration prior to use as detailed by the manufacturer and the Performance Characteristic Sheet (PCS) developed for the instruments.

For the purpose of this LBP determination, representative building components were tested as part of this pre-renovation study. Individual repainting efforts are not discoverable in such a limited program. LBP issues involving properties that are not residential are regulated to a limited degree for worker protection relating to paint-disturbing work activities and waste disposal.

Worker protection is regulated by OSHA regulations, as well as CTDPH regulations. These regulations involve air monitoring of workers to determine exposure levels when disturbing lead-containing paint. An LBP determination cannot determine a safe level of lead, but is intended to provide guidance for implementing industry standards for lead in paint at identified locations. Contractors may then better determine exposure of workers to airborne lead by understanding the different concentrations of LBP activities that disturb paint on representative surfaces.



The EPA Resource Conservation and Recovery Act (RCRA), as well as CTDEEP, regulate disposal of lead-containing waste. Lead-containing materials that will be impacted during renovation or demolition activities, and result in waste for disposal must either be analyzed using the Toxicity Characteristic Leaching Procedure (TCLP) analysis if lead is determined to be present in non-residential buildings, or be presumed as a hazardous waste. A TCLP sample is a representative sample of the intended waste stream. The results are compared to a threshold value of 5.0 milligrams per liter (mg/L); a result exceeding this value is considered hazardous lead waste. If the result is below the established level, the material is not considered hazardous and may be disposed as general construction debris.

A level of LBP exceeding 1.0 milligrams of lead per square centimeter (mg/cm^2) is considered toxic or dangerous for compliance with residential standards. For purpose of this LBP determination the level of 1.0 mg/cm² has been utilized as a threshold for areas where possible worker exposures may occur.

3.2 XRF Determination Results

The LBP determination indicated consistent painting trends associated with representative building components that may be impacted by potential renovation work. The following building components were determined to contain levels of lead (greater than 1.0 mg/cm^2):

- Vinyl cove base Bathroom #1; and
- 6" ceramic floor tile and cove base bathroom #2 shop area.

Refer to Appendix E for the XRF lead determination field data sheets.

3.3 Discussion

OSHA published a Lead in Construction Standard (OSHA Lead Standard) Title 29 CFR, Part 1926.62 in May 1993. The OSHA Lead Standard has no set limit for the content of lead in paint below which the standards do not apply. The OSHA Lead Standards are task-based, and derived from airborne exposure and blood lead levels.

The results of this LBP determination are intended to provide guidance to contractors for occupational lead exposure controls. Building components coated with lead levels above industry standards may cause exposures to lead above OSHA standards during proposed demolition and renovation activities. The results of this determination are also intended to provide insight into waste disposal requirements, in accordance with EPA RCRA regulations. At the Client's request, a TCLP sample to characterize the expected waste that may result from possible selective demolition and/or renovation work was not collected as part of this inspection.

3.4 Conclusion and Recommendations

Based on our LBP determination results, LBP is present on coated building components located in the building.



Contractors must be made aware that OSHA has not established a level of lead in a material below which Title 29 CFR, Part 1926.62 does not apply. Contractors shall comply with exposure assessment criteria, interim worker protection, and other requirements of the regulation as necessary to protect workers during any renovation work that will impact lead paint.

If disturbed by renovation or demolition activities, LBP-coated building components should be segregated from the general waste stream for sample collection and analysis by TCLP to determine proper off-site waste disposal. If disturbed and managed off-site, non-porous LBP-coated building materials (i.e., metals) may be segregated and recycled as scrap metal. Metal LBP-coated building components cannot be subject to grinding, sawing, drilling, sanding, or torch cutting.

The building is not residential and is not considered a "child-occupied facility"; therefore, it is not subject to lead safe renovation requirements.

Those surfaces which do not contain lead paint are not subject to the RRP requirements. If a specific component or surface is not identified as having been tested it should be presumed to contain lead paint unless tested. Contractor's should be aware that the threshold limit of 1.0 mg/cm² for purposes of RRP requirements is not recognized by the Occupational Safety and Health Administration (OSHA) and workers exposures are still subject to lead in construction regulation 29 CFR 1926.62 regardless of paint testing results.

The building is presently characterized as commercial property, which is not subject to the State of Connecticut residential dwelling regulations. The property may be renovated using procedures required in accordance with OSHA regulation Title 29 CFR, Part 1926.62.

4 Lead Waste Characterization

A waste is a solid or liquid material that serves no further purpose. A waste is defined by EPA to be hazardous if it contains certain properties that could pose dangers to human health and the environment after it is discarded. Wastes that are ignitable, corrosive, reactive, or toxic are regulated under the Hazardous Waste Regulations. TCLP is a method that extracts the compounds of interest in a standard way simulating landfill conditions (EPA Title 40 CFR, Part 261).

4.1 Sample Collection Methodology

Mr. Mossey collected representative aliquots of various lead-based paint-containing and lead-containing building components throughout the building. Material substrates such as brick, concrete, and wood were segregated in accordance with LBP determination data. Representative aliquots were collected of the individual substrates/surfaces and composited based on their respective quantities into a single sample. The composite sample was analyzed by TCLP for lead as a representation of the total waste stream for this renovation project.

Connecticut Testing Laboratories, Inc. (CTL) of Meriden, Connecticut analyzed the composite sample. CTL is a Connecticut-certified laboratory. The sample was analyzed using EPA Method SW-846 (Extraction Method 1311).



4.2 Results

In total, one composite sample was collected and analyzed. RCRA defines toxic concentrations for lead which is commonly identified in paint to be greater than 5.0 milligrams per liter (mg/L), or parts per million (ppm).

The analytical results of the representative composite sample indicates the waste leaches lead at less than 5.0 mg/L (0.026 mg/L) and is therefore, not classified as a hazardous waste. Refer to *Appendix* F for the Connecticut Testing Laboratory report.

4.3 Conclusion

Based on the TCLP laboratory analytical results of the representative waste stream composite sample, the waste generated during building renovation would not be classified by EPA or CTDEEP as hazardous waste.

5 Polychlorinated Biphenyls (PCBs) Visual Assessment

5.1 Background

Sampling of building materials for PCBs is presently not mandated by the EPA. However, significant liability risk exists for improperly disposing of PCB- containing waste materials. Recent knowledge and awareness of PCBs within matrices such as caulking, glazing compounds, paints, adhesives and ceiling tiles has become more prevalent, especially amongst remediation contractors, waste haulers, and disposal facilities.

Many property owners have become subject to large changes in schedule, scope, and costs as a result of failure to identify these possible contaminants prior to renovation or demolition. We recommended this testing as part of the work. This information will serve as useful to significant impact and potential requirements for planning required by the EPA which must be implemented if PCBs are identified at a project site.

The EPA requirements apply and require removal of PCBs once identified, regardless of project intent as an unauthorized use of PCBs. Therefore, if buildings are to remain for re-use and PCBs are identified, the EPA still requires PCB material removal once it is determined that PCBs are present. In addition to identification of source materials containing PCBs, if PCBs are present at certain concentrations, additional sampling and analysis of adjacent surfaces in contact with PCB sources, or which may have been contaminated from a source of PCBs (e.g. soil), must also be performed or remediated.

EPA requirements apply only if PCBs are present in concentrations above a specified level. Presently, PCB-containing materials at concentrations equal to or greater than (\geq) 50 ppm, or equivalent units of



milligrams per kilogram (mg/kg) are regulated. Note materials containing less than (<) 50 ppm may also be regulated unless proven to be an "Excluded PCB Product". The definition of an Excluded PCB Product includes those products or source of the products containing < 50 ppm concentration PCBs that were legally manufactured, processed, distributed in commerce, or used before October 1, 1984.

5.2 Visual Identification Inspection

On September 20, 2017, Mr. Mossey performed a visual inspection of suspect PCB-containing building materials (i.e. caulking and glazing compounds) as recommended by the EPA. The following suspect PCB-containing caulking and glazing compounds were identified at the Site:

- Exterior door caulking;
- Interior window glazing compound
- Interior caulking on CMU block and sinks/ urinals;
- Exterior window caulking; and
- Exterior gutter caulking.

Refer to Table 3 for a list of presumed PCB-containing caulking compounds.

5.3 Conclusions and Recommendations

Suspect PCB-containing caulking and glazing compounds as recommended by the EPA were observed at the Site. These materials have been presumed to contain PCBs at regulated concentrations. No samples were collected of suspect PCB-containing caulking or glazing compounds or other building materials at the time of this limited inspection.

6 PCB-Containing Fluorescent Light Ballasts and Mercury-Containing Equipment

6.1 PCB-Containing Fluorescent Ballasts

Fluorescent light ballasts manufactured prior to 1979 may contain capacitors that contain PCBs. Light ballasts installed as late as 1985 may also contain PCB capacitors. Fluorescent light ballasts that are not labeled as "No-PCBs" must be assumed to contain PCBs, unless proven otherwise by quantitative analysis. Capacitors in fluorescent light ballasts labeled as non-PCB-containing may contain diethylhexyl phthalate (DEHP). DEHP was the primary substitute to replace PCBs for small capacitors in fluorescent light ballasts in use until 1991. DEHP is a toxic substance, a suspected carcinogen, and is listed under EPA RCRA and the Superfund law as a hazardous waste. Therefore, EPA Superfund liability exists for landfilling both PCB and DEHP-containing light ballasts. These listed materials are considered hazardous waste under EPA RCRA, and require special handling and disposal considerations.



On September 20, 2017, EnviroScience representative, Mr. Mossey, performed a visual inspection of representative fluorescent light fixtures to identify possible PCB-containing light ballasts. The inspection involved visually inspecting labels on representative light ballasts to identify dates of manufacture and labels indicating "No PCBs". Ballasts manufactured after 1991 were not listed as PCB or DEHP-containing ballasts, and were not quantified for disposal.

The light ballasts without a label indicating "No PCBs" are presumed to be PCB-containing waste and must be segregated for proper removal, packaging, transport, and disposal as PCB-containing waste. Those light ballasts labeled as "No PCBs" indicating manufacture dates prior to 1991 are presumed to contain DEHP. DEHP-containing light ballasts must be segregated for proper removal, packaging, transport, and disposal as non-PCB hazardous waste. Note that disposal requirements for DEHP-containing ballasts are slightly varied, and disposal costs are slightly less than PCB-containing light ballasts. Refer to **Table 4** for the PCB/DEHP-Containing Light Ballasts Inventory.

No PCB ballasts were identified in the proposed renovation areas during this limited inspection.

6.2 Mercury-Containing Equipment

Fluorescent lamps/tubes are presumed to contain mercury vapor, which is a hazardous substance to both human health and the environment. Thermostatic controls and electrical switch gear may contain a vial or bulb of mercury associated with the control. Mercury-containing equipment is regulated for proper disposal by the EPA RCRA hazardous waste regulations. According to the EPA, mercury lamps are characterized as a Universal Waste. Therefore, fluorescent lamps must be either recycled, or disposed as hazardous waste.

On September 20, 2017, EnviroScience representative, Mr. Mossey, performed an inventory of mercury equipment. These fixtures were inventoried in-place. Refer to **Table 5** for the Mercury-Containing Equipment Inventory

Report prepared by Environmental Technician, Scott Mossey.

Reviewed by:

Eduardo Miguel Marques // Senior Environmental Analyst

Robert L. Mav

Robert L. May, Jr. President



Tables

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 Table 1

 Summary of Suspect Asbestos-Containing Materials



Sample No.	Material Type	NESHAP Category	Sample Location	Asbestos Content	PLM/TEM
09-20-17-SMM-13A	Black mastic under carpet	N/A	File storage/hallway	ND/ND	PLM/TEM
09-20-17-SMM-13B	Black mastic under carpet	N/A	File storage/hallway	ND	PLM
09-20-17-SMM-14A	2' x 4' Fiberglass ceiling tile with white coating (type II)	N/A	Bathroom #2	ND	PLM
09-20-17-SMM-14B	2' x 4' Fiberglass ceiling tile with white coating (type II)	N/A	Bathroom #2	ND	PLM
09-20-17-SMM-15A	Tan/brown mastic associated with white coating on 2' x 4' ceiling fiberglass ceiling tile	N/A	Bathroom #2	ND/ND	PLM/TEM
09-20-17-SMM-15B	Tan/brown mastic associated with white coating on 2' x 4' ceiling fiberglass ceiling tile	N/A	Bathroom #2	ND	PLM
09-20-17-SMM-16A	6" Tan ceramic floor tile (dark brown inner tile)	N/A	Bathroom #2	ND	PLM
09-20-17-SMM-16B	6" Tan ceramic floor tile(dark brown inner tile)	N/A	Bathroom #2	ND	PLM
09-20-17-SMM-17A	White thin set associated with 6" tan ceramic floor tile	N/A	Bathroom #2	ND	PLM
09-20-17-SMM-17B	White thin set associated with 6" tan ceramic floor tile	N/A	Bathroom #2	ND	PLM
09-20-17-SMM-18A	Black mastic under 6" ceramic floor tile thin set	N/A	Bathroom #2	ND/ND	PLM/TEM
09-20-17-SMM-18B	Black mastic under 6" ceramic floor tile thin set)	N/A	Bathroom #2	ND	PLM
09-20-17-SMM-19A	6" Tan ceramic cove base (white inner tile)	N/A	Bathroom #2	ND	PLM
09-20-17-SMM-19B	6" Tan ceramic cove base (white inner tile)	N/A	Bathroom #2	ND	PLM
09-20-17-SMM-20A	Grey thin set associated with 6" ceramic cove base	N/A	Bathroom #2	ND	PLM
09-20-17-SMM-20B	Grey thin set associated with 6" ceramic cove base	N/A	Bathroom #2	ND	PLM
09-20-17-SMM-21A	Tan grout associated with 6 " floor and 6" cove base ceramic tiles	N/A	Bathroom #2	ND	PLM
09-20-17-SMM-21B	Tan grout associated with 6 " floor and 6" cove base ceramic tiles	N/A	Bathroom #2	ND	PLM
09-20-17-SMM-22A	Upper masonite wall board above drop ceiling	N/A	Bathroom #2	ND	PLM
09-20-17-SMM-22B	Upper masonite wall board above drop ceiling	N/A	Bathroom #2	ND	PLM



Sample No.	Material Type	NESHAP Category	Sample Location	Asbestos Content	PLM/TEM
09-20-17-SMM-23A	Multi-color tan and brown 2" pattern ceramic shower floor tile	N/A	Bathroom #2	ND	PLM
09-20-17-SMM-23B	Multi-color tan and brown 2" pattern ceramic shower floor tile	N/A	Bathroom #2	ND	PLM
09-20-17-SMM-24A	Grey grout associated with Multi-color tan and brown 2" pattern ceramic shower floor tile	N/A	Bathroom #2	ND	PLM
09-20-17-SMM-24B	Grey grout associated with Multi-color tan and brown 2" pattern ceramic shower floor tile	N/A	Bathroom #2	ND	PLM
09-20-17-SMM-25A	Gray thin set associated with Multi-color tan and brown 2" pattern ceramic shower floor tile	N/A	Bathroom #2	ND	PLM
09-20-17-SMM-25B	Gray thin set associated with Multi-color tan and brown 2" pattern ceramic shower floor tile	N/A	Bathroom #2	ND	PLM
09-20-17-SMM-26A	White sink and urinal caulking	N/A	Bathroom #2 (urinal)	ND/ND	PLM/TEM
09-20-17-SMM-26B	White sink and urinal caulking	N/A	Bathroom #2(sink)	ND	PLM
09-20-17-SMM-27A	2' x 4' Fiber glass ceiling tile dot with large gash (Type III)	N/A	Break room	ND	PLM
09-20-17-SMM-27B	2' x 4' Fiber glass ceiling tile dot with large gash (Type III)	N/A	Break room	ND	PLM
09-20-17-SMM-28A	4" Tan cove base	N/A	Break room	ND/ND	PLM/TEM
09-20-17-SMM-28B	4" Tan cove base	N/A	Break room	ND	PLM
09-20-17-SMM-29A	Tan/yellow mastic associated with 4" Tan cove base	Cat 2 NF	Break room	ND/0.44% Chrysotile	PLM/TEM
09-20-17-SMM-29B	Tan/yellow mastic associated with 4" Tan cove base Joint compound ceiling	N/A	Break room	ND	PLM
09-20-17-SMM-30A	12" Tan modeled floor tile	N/A	Break room	ND/ND	PLM/TEM
09-20-17-SMM-30B	12" Tan modeled floor tile	N/A	Break room	ND	PLM
09-20-17-SMM-31A 12" tan modeled floor tile		N/A	Break room	ND/ND	PLM/TEM
09-20-17-SMM-31B	Black mastic associated with 12" tan modeled floor tile	N/A	Break room	ND	PLM



Sample No.	Material Type	NESHAP Category	Sample Location	Asbestos Content	PLM/TEM
09-20-17-SMM-32A	Wood grain laminate counter top	N/A	Break room	ND/ND	PLM/TEM
09-20-17-SMM-32B	Wood grain laminate counter top	N/A	Break room	ND	PLM
09-20-17-SMM-33A	Brown adhesive associated with wood grain laminate counter top	N/A	Break room	ND/ND	PLM/TEM
09-20-17-SMM-33B	Brown adhesive associated with wood grain laminate counter top	N/A	Break room	ND	PLM
09-20-17-SMM-34A	Thin wood grain laminate backsplash behind counter top	N/A	Break room	ND/ND	PLM/TEM
09-20-17-SMM-34B	Thin wood grain laminate backsplash behind counter top	N/A	Break room	ND	PLM
09-20-17-SMM-35A	Tan adhesive associated with Thin wood grain laminate backsplash behind counter top	N/A	Break room	ND/ND	PLM/TEM
09-20-17-SMM-35B	Tan adhesive associated with Thin wood grain laminate backsplash behind counter top	N/A	Break room	ND	PLM
09-20-17-SMM-36A	White sink under coating	N/A	Break room	ND/ND	PLM/TEM
09-20-17-SMM-36B	White sink under coating	N/A	Break room	ND	PLM
09-20-17-SMM-37A	Interior window glazing	N/A	Break room	ND/ND	PLM/TEM
09-20-17-SMM-37B	Interior window glazing	N/A	Break room	ND	PLM
09-20-17-SMM-38A	Interior door caulking on CMU block	N/A	Garage to break room	ND/ND	PLM/TEM
09-20-17-SMM-38B	Interior door caulking on CMU block and brick	N/A	Garage to bathroom #2	ND	PLM
09-20-17-SMM-39A	2' x 4' Ceiling tile small dot textured (Type IV)	N/A	Storage room #1	ND	PLM
09-20-17-SMM-39B	2' x 4' Ceiling tile small dot textured (Type IV)	N/A	Storage room #1	ND	PLM
09-20-17-SMM-40A	Tan 2'x 2" carpet square mastic	N/A	Storage room #1	ND/ND	PLM/TEM
09-20-17-SMM-40B	Tan 2'x 2" carpet square mastic	N/A	Storage room #1	ND	PLM
09-20-17-SMM-41A	White window caulking	N/A	Exterior	ND/ND	PLM/TEM
09-20-17-SMM-41B	White window caulking	N/A	Exterior	ND	PLM
09-20-17-SMM-42A	Gray door caulking	N/A	Exterior	ND/ND	PLM/TEM



Sample No.	Material Type	NESHAP Category	Sample Location	Asbestos Content	PLM/TEM
09-20-17-SMM-42A	Gray door caulking	N/A	Exterior	ND	PLM
09-20-17-SMM-43A	Tan asphalt shingles	N/A	Exterior porch overhang	ND/ND	PLM/TEM
09-20-17-SMM-43A	Tan asphalt shingles	N/A	Exterior porch overhang	ND	PLM
09-20-17-SMM-44A	Black tar paper underlayment	N/A	Exterior porch overhang	ND/ND	PLM/TEM
09-20-17-SMM-44A	Black tar paper underlayment	N/A	Exterior porch overhang	ND	PLM
09-20-17-SMM-45A	White gutter caulking	N/A	Exterior porch overhang	ND/ND	PLM/TEM
09-20-17-SMM-45A	White gutter caulking	N/A	Exterior porch overhang	ND	PLM
09-20-17-SMM-46A	Expansion joint board against foundation wall	N/A	Exterior porch overhang	ND	PLM
09-20-17-SMM-46A	Expansion joint board against foundation wall	N/A	Exterior porch overhang	ND	PLM
09-20-17-SMM-47A	Exterior CMU block	N/A	Exterior	ND	PLM
09-20-17-SMM-47A	Exterior CMU block	N/A	Exterior	ND	PLM
09-20-17-SMM-48A	Exterior CMU block mortar	N/A	Exterior	ND	PLM
09-20-17-SMM-48A	Exterior CMU block mortar	N/A	Exterior	ND	PLM

Cat 1 NF = Category I Non-Friable Material

Cat 2 NF = Category II Non-Friable Material

N/A = Not Applicable

ND = None Detected

Table 2 Summary of Asbestos-Containing Materials Inventory

Material Type	Location	Asbestos Content	Estimated Total Quantity	Comments
12" Off white floor tile with black streaks	Bathroom #1	6.9% Chrysotile		
Black mastic associated with 12" Off white floor tile with black streaks	Bathroom #1	1.6% Chrysotile	60 SF	Mastic on concrete floor
Tan/ yellow mastic associated with 4" Tan cove base	Break room	0.44% Chrysotile	25 LF	

LF = Linear Feet

SF = Square Feet

Table 3 Suspect PCB Bulk Materials

Location	Material Color & Type	Substrate	Quantity		
Interior window glazing break room	White window glazing compound	CMU block	60 LF		
Exterior door at break room	White/gray door caulking	CMU block	17 LF		
Interior caulking on CMU block and sinks/urinals bathroom #1 and Bathroom #2	White caulking	CMU block	156 LF		
Exterior windows at Bathroom # 2 and break room	White caulking associated with windows	CMU block and brick	30 LF		

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Location	Material Color & Type	Substrate	Quantity
Exterior gutter front entrance area	White caulking associated with metal gutter	Metal	4 LF

Table 4

PCB/DEHP-Containing Light Ballasts Inventory

Туре	Estimated Quantity		
PCB	0		
DEHP	0		
Total	0		

Table 5

Mercury-Containing Equipment Inventory

Туре	Estimated Quantity		
4' Light Tube	42		





Appendix A

Limitations



APPENDIX A

1086 New London Turnpike Glastonbury, Connecticut

- 1. This inspection report for the Glastonbury Parks Maintenance Facility has been prepared for the exclusive use of the Town of Glastonbury, (the "Client") and is subject to, and is issued in connection with the terms and conditions of the original Agreement and all of its provisions. Any use or reliance upon information provided in this report, without the specific written authorization of the Client and Fuss & O'Neill EnviroScience, LLC (EnviroScience) shall be at the User's individual risk. This report should not be used as an abatement specification. All quantities of materials identified during this inspection are approximate.
- 2. EnviroScience has obtained and relied upon information from multiple sources to form certain conclusions regarding likely environmental issues at and in the vicinity of the Site in conducting this limited inspection. Except as otherwise noted, no attempt has been made to verify the accuracy or completeness of such information or verify compliance by any party with federal, state or local laws or regulations.
- 3. EnviroScience has obtained and relied upon laboratory analytical results in conducting the inspection. This information was used to form conclusions regarding the types and quantities of ACM, LBP, and PCBs that must be managed prior to renovation or demolition activities that may disturb these materials at the Site. EnviroScience has not performed an independent review of the reliability of this laboratory data.
- 4. Unless otherwise noted, only suspect hazardous materials anticipated to be impacted by renovation activities and associated within or located on the building (aboveground) were included in this limited inspection. Suspect hazardous materials may exist below the ground surface that were not included in the scope of work of this limited inspection. EnviroScience cannot guarantee all asbestos or suspect hazardous materials were identified within the areas included in the scope of work. Only visible and accessible areas were included in the scope of work for this limited inspection.
- 5. The findings, observations, and conclusions presented in this report are limited by the scope of services outlined in our original Agreement dated September 1, 2017, which reflects schedule and budgetary constraints imposed by Client. Furthermore, the assessment has been conducted in accordance with generally accepted environmental practices. No other warranty, expressed or implied, is made.
- 6. The conclusions presented in this report are based solely upon information gathered by EnviroScience to date. Should further environmental or other relevant information be discovered at a later date, the Client should immediately bring the information to the EnviroScience's attention. Based upon an evaluation and assessment of relevant information, EnviroScience may modify the letter report and its conclusions.





Appendix B

EnviroScience Inspector License and Accreditation

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SCOTT M. MOSSEY 146 HARTFORD RD C/O FUSS O'NEIL ENVIROSCIENCE MANCHESTER CT 06040-5992

Dear SCOTT M. MOSSEY,

Attached you will find your validated certificate for the coming year. Should you have any questions about your certificate renewal, please do not hesitate to write or call:

Department of Public Health P.O. Box 340308 M.S.#12MQA Hartford, CT 06134-0308

SEINSTURE

(860) 509-7603 opic.dph@ct.gov www.ct.gov/dph/license

Sincerely,	
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RAUL PINO, MD, MPH, COMMISSIONER

DEPARTMENT OF PUBLIC HEALTH

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DEPAR	TMENT OF PUBLIC F	IRALITE
evel sizes	NAME	
2.C x 2010	SCOTT M. MOSSEY	*
VALIDATILA NO.	CERTIFICATE NO.	CURRENT HIROCOLI
03-589880	000283	04/30/18
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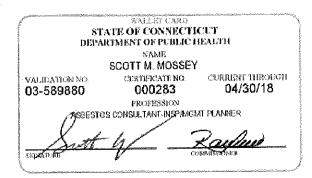
STATE OF CONNECTICUT DEPARTMENT OF PUBLIC BRAITM PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT THE INDIVIDUAL NAMED BELOW IS CERTIFIED BY THIS DEPARTMENT AS A ASBESTOS CONSULTANT-INSP/MGMT PLANNER SCOTT M. MOSSEY CLERENT THROUGH 04/30/18 VALIDATION NO. 03-589880 ENVIRENCE TO DO NO.

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000521-0000525-0000001 af 0000001-001-000001-00622

This program was presented at Fuse & O'Neill EnviroScience in. Manchester, CT with the prior Approval of the CT DPH. SCOTT MOSSEY	For successful completion of an 8 Hour, 1 Day For successful completion of an 8 Hour, 1 Day Rabestos Inspector & Management Planne Asbestos Inspector & Management Planne Asbestos Inspector & Management Planne Annual Refresher Lraining August Refresher Laining August Refresher Laining August Refresher Reformer Regulations August Refresher Reformer Regulations August Refresher Reformer Regulations August Reformer Regulations Basendag Mystic August Reformer Regulation August Reformer Regulation Basendag Mystic August Reformer Regulation August Reformer Regulation </th <th></th>	
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Appendix C

Asbestos Laboratory Report and Chain-of-Custody Form

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	From: GFI FaxMaker To: ENVI54 Page	x 2/18 Date: 9/26/2017 5:36:41 PM
FUSS a	• O'NEILL	Fuss & O'Neill EnviroScience EMSL Customer No. ENVI54
Enviros	Science, LLC 6	21701535 www.fando.com
146 Hartford Road, Manch		Phone (860) 646-2469
	ASBESTOS BULK SAMPLE CH	AIN OF CUSTODY FORM
Project Name:Departme	nt of Public Works- Glastonbury Projec	
	on Tpke, Glastonbury, Connecticut Location: Re	
Sample ID	Sample Location	Type of Material
09-20-17-SMM-01A	Bathroom #1 above drop ceiling	Mudded elbow insulation
09-20-17-SMM-01B	Bathroom #1 above drop ceiling	Mudded elbow insulation
09-20-17-SMM-01C	Bathroom #2 above drop ceiling	Mudded elbow insulation
09-20-17-SMM-02A	Bathroom #1	Sheetrock
09-20-17-SMM-02B	File storage/ hallway	Sheetrock
09-20-17-SMM-03A	Bathroom #1	Joint compound and tape
09-20-17-SMM-03B	File storage/ hallway	Joint compound and tape
09-20-17-SMM-04A	Bathroom #1	Interior CMU block
09-20-17-SMM-04B	File storage/ hallway	Interior CMU block
09-20-17-SMM-05A	Bathroom #1	Interior CMU block mortar
09-20-17-SMM-05B	File storage/ hallway	Interior CMU block mortar
69-20-17-SMM-06A	Bathroom #1	4" Brown vinyl cove base
09-20-17-SMM-06B	Bathroom #1	4" Brown vinyl cove base
09-20-17-SMM-07A	Bathroom #1	Brown mastic associated with 4" brown vinyl cove base
09-20-17-SMM-07B	Bathroom #1	Brown mastic associated with 4" brown vinyl cove base
09-20-17-SMM-08A-B	VOID	VOID
09-20-17-SMM-09A	Bathroom #1	12" Off white floor tile with black streaks
09-20-17-SMM-09B	Bathroom #1	12" Off white floor tile with black streaks
09-20-17-SMM-10A	Bathxoom #t	Black mastic associated with 12" Off white floor tile with black
		streaks
09-20-17-SMM-10B	Bathroom #1	Black mastic associated with 12" Off white floor tile with black streaks
09-20-17-SMM-11A	Bathroom #1	2' X 4' ceiling tile dot with large gash (Type I)
09-20-17-SMM-11B	File storage/ hallway	2' X 4' ceiling tile dot with large gash (Type I)
09-20-17-SMM-12A	Bathroom #1	White caulk at comers of CMU block
09-20-17-SMM-12B	Bathroom #2	White caulk at corners of CMU block

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Fuss & O'Neill EnviroScience EMSL Customer No. ENVI54

621701535

2 d 4 www.fando.com

Phone (860) 646-2469

146 Hartford Road, Manchester, CT 06040

FUSS & O'NEILL EnviroScience, LLC

09-20-17-SMM-13A	File storage/ hallway	Black mastic under carpet			
09-20-17-SMM-13B	File storage/ hallway	Black mastic under carpet			
09-20-17-SMM-14A	Bathroom #2	2' X4' Fiberglass ceiling tile with white coating (type II)			
.09-20-17-SMM-14B	Bathroom #2	2' X4' Fiberglass ceiling tile with white coating (type II)			
09-20-17-SMM-15A	Bathroom #2	Tan/ brown mastic associated with white coating on 2' X4' ceili fiberglass ceiling tile			
09-20-17-SMM-15B	Bathroom #2	Tan/ brown mastic associated with white coating on 2' X4' ceili fiberglass ceiling tile			
09-20-17-SMM-16A	Bathroom #2	6" Tan ceramic floor tile (dark brown inner tile)			
09-20-17-SMM-16B	Bathroom #2	6" Tan ceramic floor tile(dark brown inner tile)			
09-20-17-SMM-17A	Bathroom #2	White thin set associated with 6" tan ceramic floor tile			
09-20-17-SMM-17B	Bathroom #2	White thin set associated with 6" tan ceramic floor tile			
09-20-17-SMM-18A	Bathroom #2	Black mastic under 6" ceramic floor tile thin set			
09-20-17-SMM-18B	Bathroom #2	Black mastic under 6" ceramic floor tile thin set			
09-20-17-SMM-19A	Bathroom #2	6" Tan ceramic cove base (white inner tile)			
09-20-17-SMM-19B	Bathroom #2	6" Tan ceramic cove base (white inner tile)			
09-20-17-SMM-20A	Bathroom #2	Grey thin set associated with 6" ceramic cove base			
09-20-17-SMM-20B	Bathroom #2	Grey thin set associated with 6" ceramic cove base			
09-20-17-SMM-21A	Bathroom #2	Tan grout associated with 6 "floor and 6" cove base ceramic t			
09-20-17-SMM-21B	Bathroom #2	Tan grout associated with 6 " floor and 6" cove base ceramic ti			
09-20-17-SMM-22A	Bathroom #2	Upper masonite wall board above drop ceiling			
09-20-17-SMM-22B	Bathroom #2	Upper masonite wall board above drop ceiling			
09-20-17-SMM-23A	Bathroom #2	Multi color tan and brown 2" pattern ceramic shower floor ti			
09-20-17-SMM-23B	Bathroom #2	Multi color tan and brown 2" pattern ceramic shower floor ti			
09-20-17-SMM-24A	Bathroom #2	Grey grout associated with 23A-B			
09-20-17-SMM-24B	Bathroom #2	Grey grout associated with 23A-B			
09-20-17-SMM-25A	Bathroom #2	Gray thin set associated with 23A-B			
09-20-17-SMM-25B	Bathroom #2	Gray thin set associated with 23A-B			
09-20-17-SMM-26A	Bathroom #2 (urinal)	White sink and utinal caulking			
09-20-17-SMM-26B	Bathroom #2(sink)	White sink and urinal caulking			

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To: ENVI54

Fuss & O'Neill EnviroScience EMSL Customer No. ENVI54

621701535

3 I 4 www.fando.com

146 Hartford Road, Manchester, CT 06040

FUSS & O'NEILL EnviroScience, LLC

OrderID: 621701535

09-20-17-SMM-27A	Break room	2' X 4' Fiber glass ceiling tile dot with large gash (Fype III)			
09-20-17-SMM-27B	Break room	2' X 4' Fiber glass ceiling tile dot with large gash (Type III)			
09-20-17-SMM-28A	Break room	4" Tan cove base			
09-20-17-SMM-28B	Break room	4" Tan cove base			
09-20-17-SMM-29A	Break room	Tan/ yellow mastic associated with 4" Tan cove base			
09-20-17-SMM-29B	Break room	Tan/ yellow mastic associated with 4" Tan cove base Joint			
09-20-17-SMM-30A	Break 100m	12" Tan modeled floor tile			
09-20-17-SMM-30B	Break room	12" Tan modeled floor tile			
09-20-17-SMM-31A	Break room	Black mastic associated with 12" tan modeled floor tile			
09-20-17-SMM-31B	Break room	Black mastic associated with 12" tan modeled floor tile			
09-20-17-SMM-32A	Break 1000m	Wood grain laminate counter top			
09-20-17-SMM-32B	Break room	Wood grain laminate counter top			
09-20-17-SMM-33A	Break room	Brown adhesive associated with wood grain laminate counter top			
	Break room	Brown adhesive associated with wood grain laminate counter top			
09-20-17-SMM-34A	Break 100m	Thin wood grain laminate backsplash behind counter top			
09-20-17-SMM-34B	Break room	Thin wood grain laminate backsplash behind counter to			
09-20-17-SMM-35A	Break 100m	Tan adhesive associated with 34 A-B			
09-20-17-SMM-35B	Break room	Tan adhesive associated with 34 A-B			
09-20-17-SMM-36A	Break room	White sink under coating			
09-20-17-SMM-36B	Break room	White sink under coating			
09-20-17-SMM-37A	Break room	Interior window glazing			
09-20-17-SMM-37B	Break room	Interior window glazing			
09-20-17-SMM-38A	Garage to break room	Interior door caulking on CMU block			
09-20-17.SMM-38B	Garage to bathroom #2	Interior door caulking on CMU block and brick			
09-20-17-SMM-39A	Storage room #1	2' X 4' Ceiling tile small dot textured (Type IV)			
09-20-17-SMM-39B	Storage room #1	2' X 4' Ceiling tile small dot textured (Type IV)			
09-20-17-SMM-40A	Storage room #1	Tan 2'x 2" carpet square mastic			
09-20-17-SMM-40B	Storage room #1	Tan 2'x 2" carpet square mastic			
09-20-17-SMM-41A	Exterior	White window caulking			

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Fuss & O'Neill EnviroScience EMSL Customer No. ENVi54

621701535

4 at 4 www.fando.com

146 Hartford Road, Manchester, CT 06040

FUSS & O'NEILL EnviroScience, LLC

Phone (860) 646-2469

Exterior	White window caulking			
Exterior	Gray door caulking			
Exterior	Gray door caulking			
Exterior porch overhang	Tan asphalt shingles			
Exterior porch overhang	Tan asphalt shingles			
Exterior porch overhang	Black tar paper underlayment			
Exterior porch overhang	Black tar paper underlayment			
Exterior porch overhang r	White gutter caulking			
Exterior porch overhang or	White gutter caulking			
Exterior porch overhang r	Expansion joint board against foundation wall			
Exterior porch overhang or	Expansion joint board against foundation wall			
Exterior	Exterior CMU block			
Exterior	Exterior CMU block			
Exterior	Exterior CMU block morter			
Exterior	Exterior CMU block mottar			
TEM Other	_ Turnaround Time: <u>24 HR</u>			
e completed for requested t/a/t at (860) 646-2 Email Results to: <u>emarques@fando</u>				
is on first positive sample in each homogeneou	1% by PLM: analyze only "A" group sample above by TEM NOB pe 9/20/17 Time: 1500			
Mossey / Sur 4 Date: Date:	$\frac{9/21/17}{1200}$ Time: $\frac{1200}{1200}$			
LUCH. D	Date: <u>M. A. M. Time: 1. DA CU</u>			
	8-11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-			
Lab Drop Off Other	DEGEDVE D SEP 2 2 2017			
	Exterior Exterior porch overhang Exterior porch overhang Exterior porch overhang Exterior porch overhang or Exterior porch overhang or Exterior porch overhang or Exterior porch overhang or Exterior Exterior Exterior Exterior FEM Other TEM Other Exterior FEM Other Exterior Exteri			

EMSL	EMSL Analytic 161 John Roberts Road Phone/Fax: (207) 517-6 http://www.EMSL.com/	South Portla 921 / (207) 5	17-6922		c c	MSL Order ID: ustomer ID: ustomer PO: roject ID:	621701535 ENVI54 20170772.A1E
Fuss & 146 Har Manche	Marques O'Neill EnviroScience, LL0 tford Road ster, CT 06040	5		Phone: Fax: Collected Received Analyzed	(888) 8 1: 9/20/20 1: 9/22/20 1: 9/26/20)17)17	
	TMENT OF PUBLIC WOR CTICUT / RENOVATION /			S NEW LONDON	N TPKE, GLAS	TONBURG,	· · »
	Summary Test Re	port for As	bestos Analy	sis of Bulk	laterial via	EPA 600/R-93/	116
Client Sample ID: Sample Description:	09-20-17-SMM-01A BATHROOM # 1 ABOVE D	ROP CEILING./		SULATION.		Lab Sample ID:	621701535-0001
TEST	Analyzed Date	Color	Non-Ast Fibrous No	pestos	4 - 1 4 - 11	•	
PLM	9/22/2017	Gray	30%	70%	Asbestos None Detected	Comment	
Client Sample ID: Sample Description:	09-20-17-SMM-01B BATHROOM # 1 ABOVE D					Lab Sample ID:	621701535-0002
TEST	Analyzed Date	Color	Non-Ast Fibrous No		Asbestos	Comment	
PLM	9/22/2017	Gray	40%	60%	None Detected		
Sample Description: TEST	BATHROOM # 1 ABOVE Di Analyzed Date		Non-Ash	estos		<u>.</u>	
PLM	9/24/2017	Color Gray	Fibrous Not 45%	55%	Asbestos None Detected	Comment	
Client Sample ID: Sample Description:	09-20-17-SMM-02A BATHROOM # 1./SHEETRO					Lab Sample ID:	621701535-0004
TEST	Analyzed Date	Color	Non-Asb Fibrous Nor		Asbestos	Comment	
PLM	9/22/2017	Gray	5%	95%	None Detected	Gonnien	
Client Sample ID: Sample Description:	09-20-17-SMM-02B FILE STORAGE/HALLWAY.	SHEETROCK.				Lab Sample ID:	621701535-0005
TEST	Analyzed Date	Color	Non-Asb Fibrous Nor		Asbestos	Comment	
۳LM	9/24/2017	Gray	6%	94%	None Detected		
Client Sample ID: Sample Description:	09-20-17-SMM-03A BATHROOM # 1./JOINT CO	MPOUND AND	TAPE.			Lab Sample ID;	621701535-0006
TEST	Analyzed Date	Color	Non-Asb Fibrous Non		Asbestos	Comment	
PLM	9/22/2017	White	80%	20%	None Detected		
Dient Sample ID; Sample Description;	09-20-17-SMM-03B FILE STORAGE/HALLWAY./	JOINT COMPO	JND AND TAPE.			Lab Sample ID:	621701535-0007
	Analyzed		Non-Asb	astos			
TEST	Date	Color	Fibrous Non		Asbestos	Comment	
PLM	9/24/2017	White	25%	75%	None Detected	 	



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621701535 ENVI54 20170772.A1E

lient Sample ID:	Summary Test Repo					Lab Sample ID;	621701535-0008
ample Description:	BATHROOM # 1./INTERIOR C	MU BLOCK.					
	Analyzed			sbestos	A-L	Comment	
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	9/22/2017	Gray	0%	100%	None Detected		
Client Sample ID:	09-20-17-SMM-04B					Lab Sample ID:	621701535-0009
Sample Description:	FILE STORAGE/HALLWAY./IN	ITERIOR CMU	BLOCK.				
	Analyzed		Non-A	sbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	9/24/2017	Gray	0%	100%	None Detected		
Cilent Sample ID:	09-20-17-SMM-05A					Lab Sample ID:	621701535-0010
Sample Description:	BATHROOM # 1/INTERIOR (ORATR				
	Analyzed		Non-/	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	9/22/2017	Gray	0%	100%	None Detected		
Client Sample ID:	09-20-17-SMM-05B					Lab Sample ID:	621701535-0011
Sample Description:	FILE STORAGE/HALLWAY./I	ITERIOR CMU	BLOCK MORA	TR.			
, -							
	Analyzed			Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	9/24/2017	Gray	0%	100%	None Detected		
Client Sample ID:	09-20-17-SMM-06A					Lab Sample ID:	621701535-0012
Sample Description:	BATHROOM # 1./4" BROWN	VINYL COVE B	ASE.				
	Analyzed			Asbestos		6 <i>i</i>	
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	9/22/2017	Brown	0%	100%	None Detected		
TEM Grav. Reduction	9/26/2017	Brown	0,0%	100%	None Detected		
Client Sample ID:	09-20-17-SMM-06B					Lab Sample ID:	621701535-0013
Sample Description:	BATHROOM # 1./4" BROWN	VINYL COVE B	ASE.				
	Analyzed	Önler		Asbestos Non Sibmus	Asbestos	Comment	
TEST	Date	Color	Fibrous 0%	Non-Fibrous 100%	Aspestos None Detected		*****
PLM	9/24/2017	Brown	076	100.18		1 +h 0+1- /C	634764E2E 004 4
Client Sample ID:	09-20-17-SMM-07A					Lab Sample ID:	621701535-0014
Sample Description:	BATHROOM # 1./BROWN M/	STIC ASSOCI	ATED WITH 4"	BROWN VINYL CO	WE BASE.		
			AT	A - L 1			
TPCT	Analyzed	Color		Asbestos Non-Fibrous	Asbestos	Comment	
TEST PLM	9/22/2017	Brown	0%	100%	None Detected		
TEM Grav. Reduction		Brown	0.0%	100%	None Detected		
						Lab Sample ID:	621701535-0015
Client Sample ID:	09-20-17-SMM-07B					Les semple is:	021201000'0010
Sample Description:	BATHROOM # 1./BROWN M	ASTIC ASSOCI/	ATED WITH 4"	ROMN ANAF CC	DVE BASE.		
-	Anaburad		Non	Asbestos			
TEST	Analyzed Date	Color		Aspestos Non-Fibrous	Asbestos	Comment	
		Bracking		1009/	Nano Datactad		

100%

0%

None Detected

Brown

9/24/2017

Test Report:EPAMultiTests-7.32.2.D Printed: 9/26/2017 05:33PM

PLM



161 John Roberts Road South Portland, ME 04106 Phone/Fax: (207) 517-6921 / (207) 517-6922 http://www.EMSL.com / portlandlab@emsl.com EMSL Order ID: 621701535 Customer ID: ENVI54 Customer PO: 20170772.A1E Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116 Client Sample ID: 09-20-17-SMM-09A Lab Sample ID; 621701535-0016 Sample Description: BATHROOM # 1./12" OFF WHITE FLOOR TILE WITH BLACK STREAKS. Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM 9/22/2017 White/Black None Detected 0% 100% TEM Grav. Reduction 9/26/2017 White/Black 0.0% 93.1% 6.9% Chrysotile Client Sample ID: 09-20-17-SMM-09B Lab Sample ID: 621701535-0017 Sample Description: BATHROOM # 1 / 12" OFF WHITE FLOOR TILE WITH BLACK STREAKS. Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM 9/24/2017 White 0% 100% None Detected Client Sample ID: 09-20-17-SMM-10A Lab Sample ID; 621701535-0018 Sample Description: BATHROOM # 1./BLACK MASTIC ASSOCIATED WITH 12" OFF WHITE FLOOR TILE WITH BLACK STREAKS. Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM Black 9/22/2017 0% 100% None Detected TEM Grav. Reduction 9/26/2017 Black 0.0% 98.4% 1.6% Chrysotile Client Sample ID; 09-20-17-SMM-10B Lab Sample ID: 621701535-0019 Sample Description: BATHROOM # 1./BLACK MASTIC ASSOCIATED WITH 12" OFF WHITE FLOOR TILE WITH BLACK STREAKS. Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM 9/24/2017 Black 0% 100% None Detected 09-20-17-SMM-11A Client Sample ID: Lab Sample ID: 621701535-0020 Sample Description: BATHROOM # 1./2'X4' CEILING TILE DOT WITH LARGE GASH (TYPE 1). Analyzed Non-Ashestos TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM 9/22/2017 Gray 90% 10% None Detected 09-20-17-SMM-118 Client Sample ID: Lab Sample ID: 621701535-0021 Sample Description: FILE STORAGE/HALLWAY./2'X4' CEILING TILE DOT WITH LARGE GASH (TYPE 1). Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM 9/24/2017 Gray 95% 5% None Detected **Client Sample ID:** 09-20-17-SMM-12A Lab Sample ID: 621701535-0022 Sample Description: BATHROOM # 1./WHITE CAULK AT CORNERS OF CMU BLOCK. Analyzed Non-Ashestos TEST Date Color Fibrous Non-Fihmus Asbestos Comment PLM 9/22/2017 White 0% 100% None Detected TEM Grav. Reduction 9/26/2017 White 0.0% 100% None Detected Client Sample ID: 09-20-17-SMM-12B Lab Sample ID; 621701535-0023 Sample Description: BATHROOM # 2 JWHITE CAULK AT CORNERS OF CMU BLOCK. Analyzed Non-Asbestos

Date

9/24/2017

Color

White

Fíbrous

0%

Non-Fibrous

100%

Asbestos

None Detected

Comment

TEST

PLM



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621701535 ENVI54 20170772.A1E

Client Sample ID:	Summary Test Re					Lab Sample ID:	621701535-0024
ample Description:	FILE STORAGE/HALLWAY			•			
ample Description							
	Analyzed		Non-As	bestos			
TEST	Date	Color	Fibrous No	on-Fibrous	Asbestos	Comment	
2LM	9/22/2017	Black	20%	80%	None Detected		
EM Grav. Reduction	9/26/2017	Black	0.0%	100%	None Detected		
lient Sample ID:	09-20-17-SMM-138					Lab Sample ID:	621701535-0025
Sample Description:	FILE STORAGE/HALLWAY	./BLACK MASTIC	UNDER CARPE	Τ.			
	Analyzed	Calar	Non-As Fibrous N		Asbestos	Comment	
TEST	Date 9/24/2017	Color Black	15%	85%	None Detected	GBIIIICII	
PLM	9/24/2017	Diduk	10/1	0075		Lab Camala IDa	621701535-0026
Client Sample ID:	09-20-17-SMM-14A					Lab Sample ID:	621701555-0020
Sample Description:	BATHROOM # 2./2'X4' FIB	ERGLASS CEILIN	G TILE WITH WI	ITE COATING (1	I YPE II).		
	Analyzed		Non-As	hestos			
TEST	Date	Color	Fibrous N		Asbestos	Comment	
PLM	9/22/2017	White	0%	100%	None Detected		
	09-20-17-SMM-14B		<u></u>		<u> </u>	Lab Sample ID:	621701535-0027
Client Sample ID:	BATHROOM # 2./2'X4' FIB					•	
Sample Description:		ERGLAGO CEILIN					
	Analyzed		Non-As	bestos			
TEST	Date	Color	Fibrous N	on-Fibrous	Asbestos	Comment	
^p LM	9/24/2017	White	0%	100%	None Detected		
Client Sample ID:	09-20-17-SMM-15A					Lab Sample ID:	621701535-0028
Sample Description:	BATHROOM # 2./TAN/BR	OWN MASTIC ASS	OCIATED WITH	WHITE COATIN	G ON 2'X4'		
•	CEILING FIBERGLASS CI						
	Analyzed		Non-A	sbestos			
TEST	Date	Color	Fibrous N		Asbestos	Comment	
PLM	9/22/2017	Brown/Tan	0%	100%	None Detected		· · · · · · · · · · · · · · · · · · ·
TEM Grav. Reduction	9/26/2017	Brown/Tan	0.0%	100%	None Detected		
Client Sample ID:	09-20-17-SMM-15B					Lab Sample ID:	621701535-0029
Sample Description:	BATHROOM # 2./TAN/BR		SOCIATED WITH	WHITE COATIN	G ON 2'X4'		
	CEILING FIBERGLASS C	EILING TILE.		• •			
	Analyzed	0.1.		sbestos Ion Eihmus	Asbestos	Comment	
TEST	Date	Color Brown/Ten	Fibrous N 0%	on-Fibrous 100%	Aspestos None Detected	Genalicat	
PLM	9/24/2017	Brown/Tan	U 70	10070	Hone Decord	Lob Commin In-	621701535-0030
Client Sample ID:	09-20-17-SMM-16A					Lab Sample ID:	021701030-0030
Sample Description:	BATHROOM # 2./6" TAN (CERAMIC FLOOR	TILE (DARK BRO	WN INNER TILL	Ξ).		
	A		Man A	sbestos			
	Analyzed Date	Color		lon-Fibrous	Asbestos	Comment	
TECT	Date	0004		100%	None Detected		
TEST	0/22/2017	Tan	U%				
PLM	9/22/2017	Tan	0%	10070		Lab Sample ID.	621701535-0031
PLM Client Sample ID:	09-20-17-SMM-16B					Lab Sample ID:	621701535-0031
PLM	09-20-17-SMM-16B				Ê).	Lab Sample ID:	621701535-0031
PLM Client Sample ID:	09-20-17-SMM-16B BATHROOM # 2./6" TAN (TILE (DARK BRO	WN INNER TILI	£).	Lab Sample ID:	621701535-0031
PLM Client Sample ID:	09-20-17-SMM-16B		TILE (DARK BRO Non-A		Ë). Asbestos	Lab Sample ID: Comment	621701535-0031

0%

100%

None Detected

PLM

9/24/2017

Tan



161 John Roberts Road South Portland, ME 04106 Phone/Fax: (207) 517-6921 / (207) 517-6922 http://www.EMSL.com / portlandlab@emsl.com EMSL Order ID: 621707 Customer ID: ENVI56 Customer PO: 201707 Project ID:

621701535 ENVI54 20170772.A1E

	09-20-17-SMM-17A					Lab Sample ID:	621701535-0032
Sample Description;	BATHROOM # 2./WHITE T	HIN SET ASSOC	IATED WITH 6	TAN CERAMIC FL	OOR TILE.		
	A			• • •			
TEST	Analyzed Date	Color	Nor Fibrous	n-Asbestos Non-Fíbrous	A-1	.	·
PLM	9/22/2017	White			Asbestos None Detected	Comment	
Client Sample ID:				10071	None Detected		
Sample Description:	09-20-17-SMM-17B					Lab Sample ID;	621701535-0033
sample Description:	BATHROOM # 2./WHITE T	HIN SET ASSOC	IATED WITH 6	" TAN CERAMIC FL	OOR TILE.		
	Analyzed		Nor	Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	9/24/2017	White	0%	s 100%	None Detected		
Client Sample ID:	09-20-17-SMM-18A					Lab Sample ID:	621701535-0034
Sample Description:	BATHROOM # 2./BLACK M	ASTIC UNDER 6	CERAMIC E		=т		
-					_ , ,		
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	9/22/2017	Black			None Detected		
TEM Grav. Reduction	9/26/2017	Black	0.0%	100%	None Detected		
Client Sample ID:	09-20-17-SMM-18B					Lab Sample ID:	621701535-0035
Sample Description:	BATHROOM # 2./BLACK M	ASTIC UNDER 6	" CERAMIC FL	OOR TILE THIN SE	ET.		
TEAT	Analyzed			-Asbestos			
TEST	Date 9/24/2017	Color		Non-Fibrous	Asbestos	Comment	
	5/24/2017	Black	0%	100%	None Detected		
					·····		
-	09-20-17-SMM-19A					Lab Sample ID;	621701535-0036
-		RAMIC COVE B	ASE (WHITE I	NNER TILE).	40 · · · · · · · · · · · · · · · · · · ·	Lab Sample ID;	621701535-0036
· ·	09-20-17-SMM-19A BATHROOM # 2./6" TAN CE	RAMIC COVE B		·		Lab Sample ID:	621701535-0036
Sample Description:	09-20-17-SMM-19A BATHROOM # 2./6" TAN CE Analyzed		Non	-Asbestos	Astron	·	621701535-0036
Sample Description: TEST	09-20-17-SMM-19A BATHROOM # 2./6" TAN CE Analyzed Date	Color	Non Fibrous	-Asbestos Non-Fibrous	Asbestos	Lab Sample (D; Comment	621701535-0036
Sample Description: TEST PLM	09-20-17-SMM-19A BATHROOM # 2./6" TAN CE Analyzed Date 9/22/2017		Non	-Asbestos	Asbestos None Detected	Comment	
TEST TEST PLM	09-20-17-SMM-19A BATHROOM # 2,/6" TAN CE Analyzed Date 9/22/2017 09-20-17-SMM-19B	Color Tan	Non- Fibrous 0%	Asbestos Non-Fibrous 100%		·	621701535-0036 621701535-0037
TEST TEST	09-20-17-SMM-19A BATHROOM # 2./6" TAN CE Analyzed Date 9/22/2017	Color Tan	Non- Fibrous 0%	Asbestos Non-Fibrous 100%		Comment	
TEST TEST PLM	09-20-17-SMM-19A BATHROOM # 2,/6" TAN CE Analyzed Date 9/22/2017 09-20-17-SMM-19B BATHROOM # 2,/6" TAN CE	Color Tan	Non- Fibrous 0% ASE (WHITE II	Asbestos Non-Fibrous 100% NNER TILE),		Comment	
Sample Description; TEST PLM Client Sample ID;	09-20-17-SMM-19A BATHROOM # 2,/6" TAN CE Analyzed Date 9/22/2017 09-20-17-SMM-19B	Color Tan	Non- Fibrous 0% ASE (WHITE II Non-	Asbestos Non-Fibrous 100%		Comment	
TEST TEST Client Sample ID: Sample Description: TEST	09-20-17-SMM-19A BATHROOM # 2./6" TAN CE Analyzed Date 9/22/2017 09-20-17-SMM-19B BATHROOM # 2./6" TAN CE Analyzed	Color Tan RAMIC COVE B	Non- Fibrous 0% ASE (WHITE II Non-	Asbestos Non-Fibrous 100% NNER TILE). Asbestos	None Detected	Comment	
Sample Description: TEST PLM Client Sample ID: Sample Description: TEST PLM	09-20-17-SMM-19A BATHROOM # 2,/6" TAN CE Analyzed Date 9/22/2017 09-20-17-SMM-19B BATHROOM # 2,/6" TAN CE Analyzed Date 9/24/2017	Color Tan RAMIC COVE B Color	Non- Fibrous 0% ASE (WHITE II Non- Fibrous	Asbestos Non-Fibrous 100% NNER TILE). Asbestos Non-Fibrous	None Detected	Comment Lab Sample ID: Comment	621701535-0037
Sample Description: TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID:	09-20-17-SMM-19A BATHROOM # 2./6" TAN CE Date 9/22/2017 09-20-17-SMM-19B BATHROOM # 2./6" TAN CE Analyzed Date 9/24/2017 09-20-17-SMM-20A	Color Tan RAMIC COVE B Color Tan	Non- Fibrous 0% ASE (WHITE II Non- Fibrous 0%	Asbestos Non-Fibrous 100% NNER TILE). Asbestos Non-Fibrous 100%	None Detected Asbestos None Detected	Comment	
Sample Description: TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID:	09-20-17-SMM-19A BATHROOM # 2,/6" TAN CE Analyzed Date 9/22/2017 09-20-17-SMM-19B BATHROOM # 2,/6" TAN CE Analyzed Date 9/24/2017	Color Tan RAMIC COVE B Color Tan	Non- Fibrous 0% ASE (WHITE II Non- Fibrous 0%	Asbestos Non-Fibrous 100% NNER TILE). Asbestos Non-Fibrous 100%	None Detected Asbestos None Detected	Comment Lab Sample ID: Comment	621701535-0037
Sample Description: TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID:	09-20-17-SMM-19A BATHROOM # 2./6" TAN CE Date 9/22/2017 09-20-17-SMM-19B BATHROOM # 2./6" TAN CE Analyzed Date 9/24/2017 09-20-17-SMM-20A	Color Tan RAMIC COVE B Color Tan	Non- Flbrous 0% ASE (WHITE II Non- Flbrous 0% TED WITH 6* (Asbestos Non-Fibrous 100% NNER TILE). Asbestos Non-Fibrous 100%	None Detected Asbestos None Detected	Comment Lab Sample ID: Comment	621701535-0037
PLM Client Sample ID: Sample Description: TEST PLM	09-20-17-SMM-19A BATHROOM # 2./6" TAN CE Date 9/22/2017 09-20-17-SMM-19B BATHROOM # 2./6" TAN CE Analyzed Date 9/24/2017 09-20-17-SMM-20A BATHROOM # 2./GRAY THI	Color Tan RAMIC COVE B Color Tan	Non- Fibrous 0% ASE (WHITE II Non- Fibrous 0% TED WITH 6* (Non-	Asbestos Non-Fibrous 100% NNER TILE). Asbestos Non-Fibrous 100% CERAMIC COVE BA	None Detected Asbestos None Detected	Comment Lab Sample ID: Comment	621701535-0037
Sample Description: TEST Client Sample ID: Sample Description: TEST Client Sample ID: Sample Description: TEST	09-20-17-SMM-19A BATHROOM # 2./6" TAN CE Date 9/22/2017 09-20-17-SMM-19B BATHROOM # 2./6" TAN CE Analyzed Date 9/24/2017 09-20-17-SMM-20A BATHROOM # 2./GRAY THI Analyzed	Color Tan RAMIC COVE B Color Tan N SET ASSOCIA	Non- Fibrous 0% ASE (WHITE II Non- Fibrous 0% TED WITH 6* (Non-	Asbestos Non-Fibrous 100% NNER TILE). Asbestos Non-Fibrous 100% CERAMIC COVE BA	None Detected Asbestos None Detected ASE.	Comment Lab Sample ID: Comment Lab Sample ID:	621701535-0037
Sample Description: TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description: TEST TEST	09-20-17-SMM-19A BATHROOM # 2,/6" TAN CE Date 9/22/2017 09-20-17-SMM-19B BATHROOM # 2,/6" TAN CE Analyzed Date 9/24/2017 09-20-17-SMM-20A BATHROOM # 2,/GRAY THI Analyzed Date	Color Tan RAMIC COVE B Color Tan N SET ASSOCIA Color	Non- Flbrous 0% ASE (WHITE II Non- Flbrous 0% TED WITH 6* 0 Non- Fibrous	Asbestos Non-Fibrous 100% NNER TILE). Asbestos Non-Fibrous 100% CERAMIC COVE BA Asbestos Non-Fibrous	None Detected Asbestos Asbestos Asbestos	Comment Lab Sample ID: Comment Lab Sample ID: Comment	621701535-0037 621701535-0038
Sample Description: TEST Client Sample ID: Sample Description: TEST Client Sample ID: Sample Description: TEST LM Client Sample ID: Client Sample ID:	09-20-17-SMM-19A BATHROOM # 2./6" TAN CE Date 9/22/2017 09-20-17-SMM-19B BATHROOM # 2./6" TAN CE Analyzed Date 9/24/2017 09-20-17-SMM-20A BATHROOM # 2./GRAY THI Analyzed Date 9/22/2017 09-20-17-SMM-20B	Color Tan RAMIC COVE B Color Tan N SET ASSOCIA Color Gray	Non- Fibrous 0% ASE (WHITE II Non- Fibrous 0% TED WITH 5° C Non- Fibrous 0%	Asbestos Non-Fibrous 100% NNER TILE), Asbestos Non-Fibrous 100% CERAMIC COVE BA Asbestos Non-Fibrous 100%	None Detected Asbestos None Detected ASE. Asbestos None Detected	Comment Lab Sample ID: Comment Lab Sample ID:	621701535-0037
Sample Description: TEST Client Sample ID: Sample Description: TEST Client Sample ID: Sample Description: TEST TEST	09-20-17-SMM-19A BATHROOM # 2,/6" TAN CE Date 9/22/2017 09-20-17-SMM-19B BATHROOM # 2,/6" TAN CE Analyzed Date 9/24/2017 09-20-17-SMM-20A BATHROOM # 2,/GRAY THI Analyzed Date 9/22/2017	Color Tan RAMIC COVE B Color Tan N SET ASSOCIA Color Gray	Non- Fibrous 0% ASE (WHITE II Non- Fibrous 0% TED WITH 5° C Non- Fibrous 0%	Asbestos Non-Fibrous 100% NNER TILE), Asbestos Non-Fibrous 100% CERAMIC COVE BA Asbestos Non-Fibrous 100%	None Detected Asbestos None Detected ASE. Asbestos None Detected	Comment Lab Sample ID: Comment Lab Sample ID: Comment	621701535-0037 621701535-0038

	Mialyzeu		NON-A	ASDESTOS				
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment		
PLM	9/24/2017	Gray	0%	100%	None Detected		·	



EMSL Analytical, Inc.

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EMSL Order ID: 621701535 ENVI54 Customer ID: Customer PO: Project ID:

20170772.A1E

Client Sample ID:	09-20-17-SMM-21A					Lab Sample ID:	621701535-0040
Sample Description:	BATHROOM # 2./TAN GRO CERAMIC TILES.	OUT ASSOCIATED	WITH 6" FLOO	R AND 6" COVE E	BASE		
	Analyzed		Non-A	sbestos		_	
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	9/22/2017	Tan	0%	100%	None Detected		
Cilent Sample ID:	09-20-17-SMM-21B					Lab Sample ID:	621701535-0041
Sample Description:	BATHROOM # 2./TAN GRO CERAMIC TILES.	OUT ASSOCIATED	WITH 6" FLOO	R AND 6" COVE E	BASE		
	Analyzed		Non-A	sbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PL.M	9/24/2017	Tan	0%	100%	None Detected		
Client Sample ID:	09-20-17-SMM-22A					Lab Sample ID:	621701535-0042
Sample Description:	BATHROOM # 2 JUPPER M	ASONITE WALL	BOARD ABOVE	DROP CEILING.			
	Analyzed			sbestos	A-T	Comment	
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	9/22/2017	Tan	98%	2%	None Detected		
Client Sample ID:	09-20-17-SMM-22B					Lab Sample ID:	621701535-0043
Sample Description:	BATHROOM # 2 / UPPER 1	MASONITE WALL I	BOARD ABOVE	DROP CEILING.			
	Analyzed			Asbestos		_	
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	9/24/2017	Tan	98%	2%	None Detected		
	9/24/2017 09-20-17-SMM-23A	Tan	98%	2%	None Detected	Lab Sample ID:	621701535-0044
						Lab Sample ID:	621701535-0044
Client Sample ID:	09-20-17-SMM-23A BATHROOM # 2./MULTI C		ROWN 2" PATT		HOWER		621701535-0044
Client Sample ID:	09-20-17-SMM-23A BATHROOM # 2./MULTI C FLOOR TILE.		ROWN 2" PATT Non-4 Fibrous	ERN CERAMIC S Asbestos Non-Fíbrous	HOWER Asbestos	Lab Sample ID: Comment	621701535-0044
Client Sample ID: Sample Description: TEST	09-20-17-SMM-23A BATHROOM # 2./MULTI C FLOOR TILE. Analyzed	OLOR TAN AND B	ROWN 2" PATT Non-4	TERN CERAMIC S Asbestos	HOWER		621701535-0044
Client Sample ID: Sample Description:	09-20-17-SMM-23A BATHROOM # 2./MULTI C FLOOR TILE. Analyzed Date	OLOR TAN AND B Color	ROWN 2" PATT Non-4 Fibrous	ERN CERAMIC S Asbestos Non-Fíbrous	HOWER Asbestos		621701535-0044 621701535-0045
Client Sample ID: Sample Description: TEST PLM Client Sample ID:	09-20-17-SMM-23A BATHROOM # 2./MULTI C FLOOR TILE. Analyzed Date 9/22/2017	OLOR TAN AND B Color Brown/Tan	ROWN 2" PATT Non-4 Fibrous 0%	TERN CERAMIC S Asbestos Non-Fíbrous 100%	HOWER Asbestos None Detected	Comment	
Client Sample ID: Sample Description: TEST PLM Client Sample ID:	09-20-17-SMM-23A BATHROOM # 2./MULTI C FLOOR TILE. Analyzed Date 9/22/2017 09-20-17-SMM-23B BATHROOM # 2./MULTI C	OLOR TAN AND B Color Brown/Tan	ROWN 2" PATT Non-4 Fibrous 0% ROWN 2" PATT	TERN CERAMIC S Asbestos Non-Fíbrous 100%	HOWER Asbestos None Detected	Comment Lab Sample ID:	
Client Sample ID: Sample Description: TEST PLM Client Sample ID:	09-20-17-SMM-23A BATHROOM # 2./MULTI C FLOOR TILE. Analyzed Date 9/22/2017 09-20-17-SMM-23B BATHROOM # 2./MULTI C FLOOR TILE.	OLOR TAN AND B Color Brown/Tan	ROWN 2" PATT Non-4 Fibrous 0% ROWN 2" PATT Non-4 Fibrous	TERN CERAMIC S Asbestos Non-Fíbrous 100% TERN CERAMIC S Asbestos Non-Fíbrous	HOWER Asbestos None Detected HOWER Asbestos	Comment	
Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description:	09-20-17-SMM-23A BATHROOM # 2./MULTI C FLOOR TILE. Analyzed Date 9/22/2017 09-20-17-SMM-23B BATHROOM # 2./MULTI C FLOOR TILE. Analyzed	OLOR TAN AND B Color Brown/Tan OLOR TAN AND B	ROWN 2" PATT Non-4 Fibrous 0% ROWN 2" PATT Non-4	TERN CERAMIC S Asbestos Non-Fíbrous 100% TERN CERAMIC S Asbestos	HOWER Asbestos None Detected	Comment Lab Sample ID:	
Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description: TEST	09-20-17-SMM-23A BATHROOM # 2./MULTI C FLOOR TILE. Analyzed Date 9/22/2017 09-20-17-SMM-23B BATHROOM # 2./MULTI C FLOOR TILE. Analyzed Date	OLOR TAN AND B Color Brown/Tan OLOR TAN AND B Color	ROWN 2" PATT Non-4 Fibrous 0% ROWN 2" PATT Non-4 Fibrous	TERN CERAMIC S Asbestos Non-Fíbrous 100% TERN CERAMIC S Asbestos Non-Fíbrous	HOWER Asbestos None Detected HOWER Asbestos	Comment Lab Sample ID:	
Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description: TEST PLM	09-20-17-SMM-23A BATHROOM # 2./MULTI C FLOOR TILE. Analyzed Date 9/22/2017 09-20-17-SMM-23B BATHROOM # 2./MULTI C FLOOR TILE. Analyzed Date 9/24/2017 09-20-17-SMM-24A	OLOR TAN AND B Color Brown/Tan OLOR TAN AND B Color Brown/Tan	ROWN 2" PATT Non-/ Fibrous 0% ROWN 2" PATT Non-/ Fibrous 0%	TERN CERAMIC S Asbestos Non-Fibrous 100% TERN CERAMIC S Asbestos Non-Fibrous 100%	HOWER Asbestos None Detected HOWER Asbestos	Comment Lab Sample ID: Comment	621701535-0045
Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID:	09-20-17-SMM-23A BATHROOM # 2./MULTI C FLOOR TILE. Analyzed Date 9/22/2017 09-20-17-SMM-23B BATHROOM # 2./MULTI C FLOOR TILE. Analyzed Date 9/24/2017 09-20-17-SMM-24A	OLOR TAN AND B Color Brown/Tan OLOR TAN AND B Color Brown/Tan	ROWN 2" PATT Non-/ Fibrous 0% ROWN 2" PATT Non-/ Fibrous 0% ED WITH 23 A-5	TERN CERAMIC S Asbestos Non-Fibrous 100% TERN CERAMIC S Asbestos Non-Fibrous 100%	HOWER Asbestos None Detected HOWER Asbestos	Comment Lab Sample ID: Comment	621701535-0045
Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID:	09-20-17-SMM-23A BATHROOM # 2./MULTI C FLOOR TILE. Analyzed Date 9/22/2017 09-20-17-SMM-23B BATHROOM # 2./MULTI C FLOOR TILE. Analyzed Date 9/24/2017 09-20-17-SMM-24A BATHROOM # 2./GRAY G	OLOR TAN AND B Color Brown/Tan OLOR TAN AND B Color Brown/Tan	ROWN 2" PATT Non-/ Fibrous 0% ROWN 2" PATT Non-/ Fibrous 0% ED WITH 23 A-F Non-/	TERN CERAMIC S Asbestos 100% TERN CERAMIC S Asbestos Non-Fíbrous 100%	HOWER Asbestos None Detected HOWER Asbestos	Comment Lab Sample ID: Comment	621701535-0045
Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description:	09-20-17-SMM-23A BATHROOM # 2./MULTI C FLOOR TILE. Analyzed 9/22/2017 09-20-17-SMM-23B BATHROOM # 2./MULTI C FLOOR TILE. Analyzed 9/24/2017 09-20-17-SMM-24A BATHROOM # 2./GRAY G Analyzed	OLOR TAN AND B Color Brown/Tan OLOR TAN AND B Color Brown/Tan ROUT ASSOCIATE	ROWN 2" PATT Non-/ Fibrous 0% ROWN 2" PATT Non-/ Fibrous 0% ED WITH 23 A-F Non-/	TERN CERAMIC S Asbestos Non-Fibrous 100% TERN CERAMIC S Asbestos Non-Fibrous 100% 3.	HOWER Asbestos None Detected HOWER Asbestos None Detected	Comment Lab Sample ID: Comment Lab Sample ID:	621701535-0045
Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description: TEST PLM	09-20-17-SMM-23A BATHROOM # 2./MULTI C FLOOR TILE. Analyzed Date 9/22/2017 09-20-17-SMM-23B BATHROOM # 2./MULTI C FLOOR TILE. Analyzed Date 9/24/2017 09-20-17-SMM-24A BATHROOM # 2./GRAY G Analyzed Date 9/22/2017	OLOR TAN AND B Color Brown/Tan OLOR TAN AND B Color Brown/Tan ROUT ASSOCIATE Color	ROWN 2" PATT Non-/ Fibrous 0% ROWN 2" PATT Non-/ Fibrous 0% ED WITH 23 A-B Non-/ Fibrous	TERN CERAMIC S Asbestos Non-Fibrous 100% TERN CERAMIC S Asbestos Non-Fibrous 100% 3.	HOWER Asbestos None Detected HOWER Asbestos None Detected	Comment Lab Sample ID: Comment Lab Sample ID:	621701535-0045
TEST PLM Client Sample ID: Sample Description: TEST Client Sample ID: Sample Description: TEST	09-20-17-SMM-23A BATHROOM # 2./MULTI C FLOOR TILE. Analyzed Date 9/22/2017 09-20-17-SMM-23B BATHROOM # 2./MULTI C FLOOR TILE. Analyzed Date 9/24/2017 09-20-17-SMM-24A BATHROOM # 2./GRAY G Analyzed Date 9/22/2017 09-20-17-SMM-24B	OLOR TAN AND B Color Brown/Tan OLOR TAN AND B Color Brown/Tan ROUT ASSOCIATE Color Gray	ROWN 2" PATT Non-/ Fibrous 0% ROWN 2" PATT Non-/ Fibrous 0% ED WITH 23 A-R Non-/ Fibrous 0%	TERN CERAMIC S Asbestos Non-Fibrous 100% TERN CERAMIC S Asbestos Non-Fibrous 100% 3. Asbestos Non-Fibrous 100%	HOWER Asbestos None Detected HOWER Asbestos None Detected	Comment Lab Sample ID: Comment Lab Sample ID: Comment	621701535-0045 621701535-0046
Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID:	09-20-17-SMM-23A BATHROOM # 2./MULTI C FLOOR TILE. Analyzed Date 9/22/2017 09-20-17-SMM-23B BATHROOM # 2./MULTI C FLOOR TILE. Analyzed Date 9/24/2017 09-20-17-SMM-24A BATHROOM # 2./GRAY G 9/22/2017 09-20-17-SMM-24B BATHROOM # 2./GRAY G	OLOR TAN AND B Color Brown/Tan OLOR TAN AND B Color Brown/Tan ROUT ASSOCIATE Color Gray	ROWN 2" PATT Non-/ Fibrous 0% ROWN 2" PATT Non-/ Fibrous 0% ED WITH 23 A-F Non-/ Fibrous 0% ED WITH 23 A-F	TERN CERAMIC S Asbestos Non-Fibrous 100% TERN CERAMIC S Asbestos Non-Fibrous 100% 3. Asbestos Non-Fibrous 100% B.	HOWER Asbestos None Detected HOWER Asbestos None Detected	Comment Lab Sample ID: Comment Lab Sample ID: Comment	621701535-0045 621701535-0046
Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID:	09-20-17-SMM-23A BATHROOM # 2./MULTI C FLOOR TILE. Analyzed Date 9/22/2017 09-20-17-SMM-23B BATHROOM # 2./MULTI C FLOOR TILE. Analyzed Date 9/24/2017 09-20-17-SMM-24A BATHROOM # 2./GRAY G Analyzed Date 9/22/2017 09-20-17-SMM-24B	OLOR TAN AND B Color Brown/Tan OLOR TAN AND B Color Brown/Tan ROUT ASSOCIATE Color Gray	ROWN 2" PATT Non-/ Fibrous 0% ROWN 2" PATT Non-/ Fibrous 0% ED WITH 23 A-F Non-/ Fibrous 0% ED WITH 23 A-T Non-/	TERN CERAMIC S Asbestos Non-Fibrous 100% TERN CERAMIC S Asbestos Non-Fibrous 100% 3. Asbestos Non-Fibrous 100%	HOWER Asbestos None Detected HOWER Asbestos None Detected	Comment Lab Sample ID: Comment Lab Sample ID: Comment	621701535-0045 621701535-0046



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EMSL Order ID: Customer ID: Customer PO: Project ID:

621701535 ENVI54 20170772.A1E

Client Sample ID:	09-20-17-SMM-25A				· · · · · · · · · · · · · · · · · · ·	Lab Sample ID:	621701535-0048
Sample Description:	BATHROOM # 2./GRAY	THIN SET ASSOCIA	TED WITH 23 A	-В.			
	Analyzed		Non-A	sbestos			
TEST	Date	Color	Fibrous N	Ion-Fibrous	Asbestos	Comment	
PLM	9/22/2017	Gray	0%	100%	None Detected		
Client Sample ID:	09-20-17-SMM-25B					Lab Sample ID:	621701535-0049
Sample Description;	BATHROOM # 2./GRAY	THIN SET ASSOCIA	TED WITH 23 A-	-В.			
	Analyzed		Non-A	sbestos			
TEST	Date	Color		ion-Fibrous	Asbestos	Comment	
PLM	9/24/2017	Gray	0%	100%	None Detected		
Client Sample ID:	09-20-17-SMM-26A						A A 1
•						Lab Sample ID:	621701535-0050
Sample Description:	BATHROOM # 2 (URINA	.)./WHITE SINK AN	D URINAL CAUL	KING.			
	Analyzed		Non-A	sbestos			
TEST	Date	Color	Fibrous N		Asbestos	Comment	
PLM	9/22/2017	White	0%	100%	None Detected		
EM Grav. Reduction	9/26/2017	White	0.0%	100%	None Detected	••••••••	• • • • • • • • • • • • • • • • • • • •
Client Sample ID:	09-20-17-SMM-26B		***			Lab Sample ID;	621701535-0051
Sample Description:				10		Lav Sample (µ);	041/01030-0001
	BATHROOM # 2 (SINK)./	ATTER SINK AND U		NG.			
	Analyzed		Non-As	bestos			
TEST	Date	Color	Fibrous N	on-Fibrous	Asbestos	Comment	
PLM	9/24/2017	White	0%	100%	None Detected		· · · · · · · · · · · · · · · · · · ·
Client Sample ID:	09-20-17-SMM-27A					Lab Sample ID;	621701535-0052
Sample Description:							
• •	BREAK ROOM./2'X4' FIB	ERGLASS CEILING	TILE DOT WITH	LARGE GASH	TYPE (III).		
	Break Room./2'X4' Fib	ERGLASS CEILING	TILE DOT WITH	LARGE GASH (TYPE III).		
	BREAK ROOM./2'X4' FIB Anafyzed	ERGLASS CEILING	TILE DOT WITH		TYPE III).		
TEST		ERGLASS CEILING Color	Non-As		TYPE III). Asbestos	Comment	
TEST	Analyzed		Non-As	bestos		Comment	
TEST	Analyzed Date	Color	Non-As Fíbrous N	sbestos on-Fibrous	Asbestos	Comment	621701535-0053
TEST PLM Client Sample ID;	Analyzed Date 9/22/2017	Color White/Yellow	Non-As Fíbrous N 90%	sbestos on-Fibrous 10%	Asbestos None Detected		621701535-0053
TEST PLM Client Sample ID;	Analyzed Date 9/22/2017 09-20-17-SMM-27B	Color White/Yellow	Non-As Fíbrous N 90%	sbestos on-Fibrous 10%	Asbestos None Detected		621701535-0053
TEST PLM Client Sample ID; Sample Description;	Analyzed Date 9/22/2017 09-20-17-SMM-27B BREAK ROOM./2'X4' FIBI Analyzed	Color White/Yellow ERGLASS CEILING	Non-As Fibrous N 90% TILE DOT WITH Non-As	sbestos on-Fibrous 10% I LARGE GASH (sbestos	Asbestos None Detected		621701535-0053
TEST PLM Client Sample ID; Sample Description; TEST	Analyzed Date 9/22/2017 09-20-17-SMM-27B BREAK ROOM./2'X4' F/BI Analyzed Date	Color White/Yellow ERGLASS CEILING Color	Non-As Fíbrous N 90% TILE DOT WITH Non-As Fíbrous N	sbestos on-Fibrous 10% I LARGE GASH (sbestos on-Fibrous	Asbestos None Detected		621701535-0053
TEST PLM Client Sample ID; Sample Description;	Analyzed Date 9/22/2017 09-20-17-SMM-27B BREAK ROOM./2'X4' FIBI Analyzed	Color White/Yellow ERGLASS CEILING	Non-As Fibrous N 90% TILE DOT WITH Non-As	sbestos on-Fibrous 10% I LARGE GASH (sbestos	Asbestos None Detected TYPE III).	Lab Sample ID:	621701535-0053
TEST PLM Client Sample ID; Sample Description; TEST PLM	Analyzed Date 9/22/2017 09-20-17-SMM-27B BREAK ROOM./2'X4' F/BI Analyzed Date	Color White/Yellow ERGLASS CEILING Color	Non-As Fíbrous N 90% TILE DOT WITH Non-As Fíbrous N	sbestos on-Fibrous 10% I LARGE GASH (sbestos on-Fibrous	Asbestos None Detected TYPE III). Asbestos	Lab Sample ID:	621701535-0053 621701535-0054
TEST Client Sample ID; Sample Description; TEST PLM Client Sample ID;	Analyzed Date 9/22/2017 09-20-17-SMM-27B BREAK ROOM./2'X4' FIBI Analyzed Date 9/24/2017	Color White/Yellow ERGLASS CEILING Color White	Non-As Fíbrous N 90% TILE DOT WITH Non-As Fíbrous N	sbestos on-Fibrous 10% I LARGE GASH (sbestos on-Fibrous	Asbestos None Detected TYPE III). Asbestos	Lab Sample ID: Comment	
TEST Client Sample ID; Sample Description; TEST PLM Client Sample ID;	Analyzed Date 9/22/2017 09-20-17-SMM-27B BREAK ROOM./2'X4' FIBI Analyzed Date 9/24/2017 09-20-17-SMM-28A	Color White/Yellow ERGLASS CEILING Color White	Non-As Fíbrous N 90% TILE DOT WITH Non-As Fíbrous N	sbestos on-Fibrous 10% I LARGE GASH (bbestos on-Fibrous 8%	Asbestos None Detected TYPE III). Asbestos	Lab Sample ID: Comment	
TEST Client Sample ID; Sample Description; TEST PLM Client Sample ID;	Analyzed Date 9/22/2017 09-20-17-SMM-27B BREAK ROOM./2'X4' FIBI Analyzed Date 9/24/2017 09-20-17-SMM-28A BREAK ROOM./4'' TAN CA	Color White/Yellow ERGLASS CEILING Color White	Non-As Fibrous N 90% TILE DOT WITH Non-As Fibrous N 92%	sbestos on-Fibrous 10% I LARGE GASH (sbestos on-Fibrous 8%	Asbestos None Detected TYPE III). Asbestos	Lab Sample ID: Comment	
TEST Client Sample ID; Sample Description; TEST PLM Stient Sample ID; Sample Description; TEST	Analyzed Date 9/22/2017 09-20-17-SMM-27B BREAK ROOM./2'X4' FIBI Analyzed Date 9/24/2017 09-20-17-SMM-28A BREAK ROOM./4'' TAN Co Analyzed	Color White/Yellow ERGLASS CEILING Color White DVE BASE.	Non-As Fibrous N 90% TILE DOT WITH Non-As Fibrous N 92%	sbestos on-Fibrous 10% I LARGE GASH (sbestos on-Fibrous 8%	Asbestos None Detected TYPE III). Asbestos None Detected	Lab Sample ID: Comment Lab Sample ID:	
TEST Client Sample ID; Sample Description; TEST Client Sample ID; Sample Description; TEST	Analyzed Date 9/22/2017 09-20-17-SMM-27B BREAK ROOM./2'X4' FIBI Analyzed Date 9/24/2017 09-20-17-SMM-28A BREAK ROOM./4" TAN Co Analyzed Date	Color White/Yellow ERGLASS CEILING Color White DVE BASE. Color	Non-As Fibrous N 90% TILE DOT WITH Non-As Fibrous No 92%	sbestos on-Fibrous 10% I LARGE GASH (sbestos on-Fibrous 8% bestos	Asbestos None Detected TYPE III). Asbestos None Detected Asbestos	Lab Sample ID: Comment Lab Sample ID:	
TEST PLM Client Sample ID; Sample Description; TEST PLM Client Sample ID; Sample Description; TEST PLM TEST PLM	Analyzed Date 9/22/2017 09-20-17-SMM-27B BREAK ROOM./2'X4' FIBI Analyzed Date 9/24/2017 09-20-17-SMM-28A BREAK ROOM./4" TAN CA Analyzed Date 9/22/2017	Color White/Yellow ERGLASS CEILING Color White DVE BASE. Color Tan	Non-As Fibrous N 90% TILE DOT WITH Non-As Fibrous No 92% Non-As Fibrous No 0%	sbestos on-Fibrous 10% LARGE GASH (sbestos on-Fibrous 8% bestos on-Fibrous 100%	Asbestos None Detected TYPE III). Asbestos None Detected Asbestos None Detected	Lab Sample ID: Comment Lab Sample ID: Comment	621701535-0054
TEST Dient Sample ID; Sample Description; TEST DLM Dient Sample ID; Sample Description; TEST DLM EM Grav. Reduction dient Sample ID;	Analyzed Date 9/22/2017 09-20-17-SMM-27B BREAK ROOM./2'X4' FIBI Analyzed Date 9/24/2017 09-20-17-SMM-28A BREAK ROOM./4" TAN CO Analyzed Date 9/22/2017 9/25/2017	Color White/Yellow ERGLASS CEILING Color White DVE BASE. Color Tan Tan	Non-As Fibrous N 90% TILE DOT WITH Non-As Fibrous No 92% Non-As Fibrous No 0%	sbestos on-Fibrous 10% LARGE GASH (sbestos on-Fibrous 8% bestos on-Fibrous 100%	Asbestos None Detected TYPE III). Asbestos None Detected Asbestos None Detected	Lab Sample ID: Comment Lab Sample ID:	
TEST PLM Client Sample ID; Sample Description; TEST PLM Client Sample ID; Sample Description; TEST PLM EM Grav. Reduction Client Sample ID;	Analyzed Date 9/22/2017 09-20-17-SMM-27B BREAK ROOM./2'X4' FIBI Analyzed Date 9/24/2017 09-20-17-SMM-28A BREAK ROOM./4" TAN C4 Analyzed Date 9/22/2017 9/26/2017 9/26/2017	Color White/Yellow ERGLASS CEILING Color White DVE BASE. Color Tan Tan	Non-As Fibrous N 90% TILE DOT WITH Non-As Fibrous No 92% Non-As Fibrous No 0%	sbestos on-Fibrous 10% LARGE GASH (sbestos on-Fibrous 8% bestos on-Fibrous 100%	Asbestos None Detected TYPE III). Asbestos None Detected Asbestos None Detected	Lab Sample ID: Comment Lab Sample ID: Comment	621701535-0054
TEST Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description:	Analyzed Date 9/22/2017 09-20-17-SMM-27B BREAK ROOM./2'X4' FIBI Analyzed Date 9/24/2017 09-20-17-SMM-28A BREAK ROOM./4" TAN C4 Analyzed Date 9/22/2017 9/26/2017 9/26/2017	Color White/Yellow ERGLASS CEILING Color White DVE BASE. Color Tan Tan	Non-As Fibrous N 90% TILE DOT WITH Non-As Fibrous No 92% Non-As Fibrous No 0%	sbestos on-Fibrous 10% LARGE GASH (sbestos on-Fibrous 8% bestos on-Fibrous 100%	Asbestos None Detected TYPE III). Asbestos None Detected Asbestos None Detected	Lab Sample ID: Comment Lab Sample ID: Comment	621701535-0054

9/24/2017

Tan

0%

100%

None Detected

PLM



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621701535 ENVI54 20170772.A1E

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116 621701535-0056 Lab Sample ID; Client Sample ID: 09-20-17-SMM-29A BREAK ROOM / TAN/YELLOW MASTIC ASSOCIATED WITH 4" TAN COVE BASE. Sample Description: Non-Aspestos Analyzed Asbestos Comment Non-Fibrous Fibrous TEST Date Color 100% None Detected 0% PLM 9/22/2017 Yellow 0.44% Chrysotile Tan/Yellow n.n% 99.6% TEM Grav. Reduction 9/26/2017 Lab Sample ID: 621701535-0057 Client Sample ID: 09-20-17-SMM-298 BREAK ROOM./TAN/YELLOW MASTIC ASSOCIATED WITH 4" TAN COVE BASE. Sample Description: Analyzed Non-Asbestos Comment Fibrous Non-Fibrous Asbestos TEST Date Color 100% None Detected **n%** 9/24/2017 Yellow PLM Lab Sample ID: 621701535-0058 **Client Sample ID:** 09-20-17-SMM-30A BREAK ROOM./12" TAN MODELED FLOOR TILE. Sample Description: Non-Asbestos Analyzed Comment Fibrous Non-Fibrous Asbestos Color TEST Date 100% None Detected 0% 9/22/2017 Tan PLM 0.0% 100% None Detected Tan TEM Gray, Reduction 9/26/2017 Lab Sample ID: 621701535-0059 09-20-17-SMM-30B **Client Sample ID:** BREAK ROOM./12" TAN MODELED FLOOR TILE. Sample Description: Non-Asbestos Analyzed Fibrous Non-Fibrous Asbestos Comment Date Color TEST 100% None Detected 9/24/2017 Tan 0% PLM 621701535-0060 Lab Sample ID: 09-20-17-SMM-31A Client Sample ID: BREAK ROOM./BLACK MASTIC ASSOCIATED WITH 12" TAN MODELED FLOOR TILE. Sample Description: Non-Asbestos Analyzed Non-Fibrous Asbestos Comment Fibrous TEST Date Color 80% None Detected 20% 9/22/2017 Black PLM None Detected 0,0% 100% 9/26/2017 Black TEM Grav. Reduction Lab Sample ID: 621701535-0061 09-20-17-SMM-31B **Client Sample ID:** BREAK ROOM./BLACK MASTIC ASSOCIATED WITH 12" TAN MODELED FLOOR TILE. Sample Description: Analyzed Non-Asbestos Fibrous Non-Fibrous Asbestos Comment Date Color TEST 75% None Detected 9/24/2017 Black 25% PLM 621701535-0062 Lab Sample ID: 09-20-17-SMM-32A Client Sample ID: BREAK ROOM./WOOD GRAIN LAMINATE COUNTER TOP. Sample Description: Non-Ashestos Analyzed Non-Fibrous Asbestos Comment Fibrous Date Color TEST 100% None Detected 9/22/2017 0% PLM Tan 0.0% 100% None Detected 9/26/2017 Tan TEM Grav. Reduction Lab Sample ID: 621701535-0063 09-20-17-SMM-32B Client Sample ID: BREAK ROOM./WOOD GRAIN LAMINATE COUNTER TOP. Sample Description: Analyzed Non-Ashestos Comment Fibrous Non-Fibrous Asbestos Date Color TEST

PLM 9/24/2017 Tan 0% 100% None Detected



Client Sample ID:

TEST

Client Sample ID:

TEST

Client Sample ID;

TEST

Sample Description:

Sample Description:

TEM Grav. Reduction

PLM

PLM

PLM

Sample Description:

EMSL Analytical, Inc.

09-20-17-SMM-33A

COUNTER TOP.

09-20-17-SMM-33B

COUNTER TOP.

09-20-17-SMM-34A

Analyzed

Date

9/22/2017

9/26/2017

Analyzed

Date

Analyzed

Date

9/22/2017

9/26/2017

9/24/2017

161 John Roberts Road South Portland, ME 04106 Phone/Fax: (207) 517-6921 / (207) 517-6922 http://www.EMSL.com / portlandlab@emsl.com

EMSL Order ID: 621701535 Customer ID: ENVI54 20170772.A1E Customer PO: Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116 Lab Sample ID: 621701535-0064 BREAK ROOM./BROWN ADHESIVE ASSOCIATED WITH WOOD GRAIN LAMINATE Non-Asbestos Color Fibrous Non-Fibrous Asbestos Comment Brown 0% 100% None Detected Brown 0.0% 100% None Detected Lab Sample ID; 621701535-0065 BREAK ROOM / BROWN AD HESIVE ASSOCIATED WITH WOOD GRAIN LAMINATE Non-Asbestos Color Fibrous Non-Fibrous Asbestos Comment Brown 0% 100% None Detected Lab Sample ID: 621701535-0066 BREAK ROOM./THIN WOOD GRAIN LAMINATE BACKSPLASH BEHIND COUNTER TOP. Non-Asbestos Color Fibrous Non-Fibrous Asbestos Comment Tan 0% 100% None Detected

None Detected

Lab Sample (D;

621701535-0067

TEM Grev. Reduction Cilent Sample ID: 09-20-17-SMM-34B

Sample Description: BREAK ROOM./THIN WOOD GRAIN LAMINATE BACKSPLASH BEHIND COUNTER TOP.

Tan

Cilent Sample ID: 09-20-17-SMM-35A	Comment	621701535-0068
Client Sample ID: 09-20-17-SMM-35A Sample Description: BREAK ROOM./TAN ADHESIVE ASSOCIATED WITH 34 A-B.	Lab Sample iD;	621701535-0068
Sample Description: BREAK ROOM./TAN ADHESIVE ASSOCIATED WITH 34 A-B.	Lab Sample ID;	621701535-0068
Analyzed Non-Asbestos		
TEST Date Color Fibrous Non-Fibrous Asbestos	Gomment	
PLM 9/22/2017 Tan 0% 100% None Detected		
TEM Grav. Reduction 9/26/2017 Tan 0.0% 100% None Detected		••••••••
Client Sample ID: 09-20-17-SMM-35B	Lab Sample ID:	621701535-0069

0.0%

100%

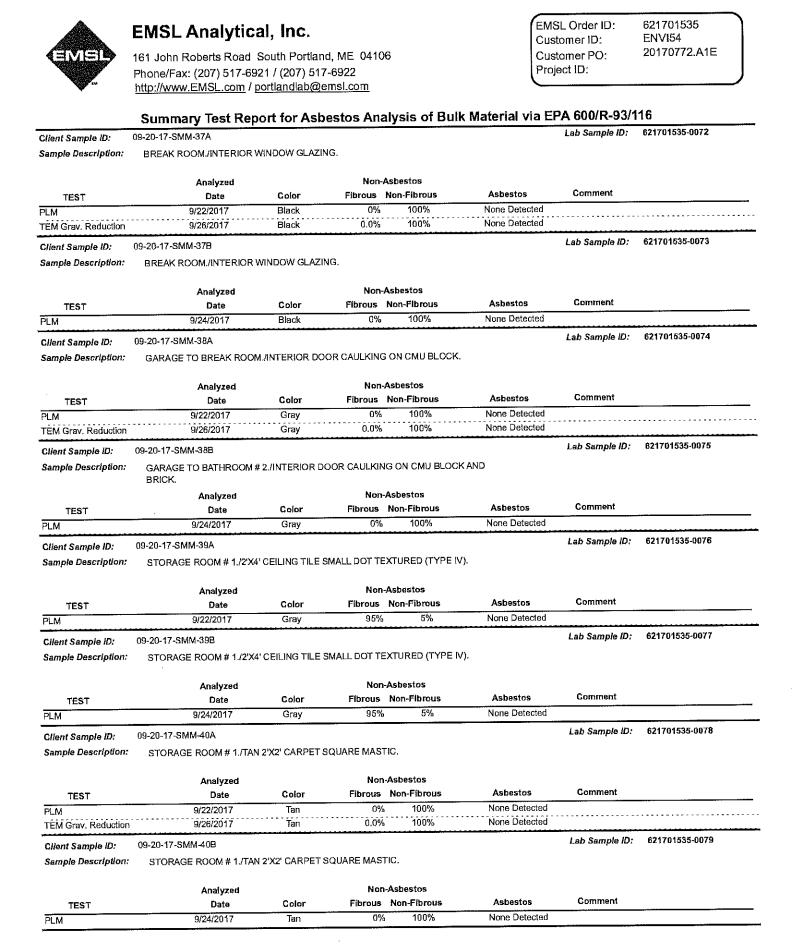
	Analyzed		Non-As	bestos			
TEST	Date	Color	Fibrous No	n-Fibrous	Asbestos	Comment	
PLM	9/24/2017	Tan	15%	85%	None Detected		
				the second s			

Client Sample ID: 09-20-17-SMM-36A Lab Sample ID: 621701535-0070 Sample Description: BREAK ROOM./WHITE SINK UNDER COATING.

	Analyzed		Non	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	9/22/2017	White	25%	75%	None Detected		
TEM Grav. Reduction	9/26/2017	White	0.0%	100%	None Detected		
Glient Sample ID:	09-20-17-SMM-36B				***	Lab Sample ID:	621701535-0071
Sample Description:	BREAK ROOM./WHITE SIN	VINDER COAT	ING.				
	Analyzed		Non-	Asbestos			

TEST	Date	Color	Fibrous Non-Fibrous	Asbestos	Comment	
PLM	9/24/2017	White	25% 75%	None Detected		

Test Report:EPAMultiTests-7.32.2.D Printed; 9/26/2017 05:33PM



	EMSL Analytic	al, Inc.				EMSL Order ID:	621701535 ENVI54
	161 John Roberts Road Phone/Fax: (207) 517-6 http://www.EMSL.com /	921 / (207) 51	7-6922	6	C	Customer ID: Customer PO: Project ID:	20170772.A1E
	Summary Test Re			alvsis of Bu	lk Material via	EPA 600/R-93/	116
Client Sample ID:	09-20-17-SMM-41A					Lab Sample ID:	621701535-0080
Sample Description:	EXTERIOR./WHITE WINDO	OW CAULKING.					
TEST	Anafyzed Date	Color		Asbestos Non-Fibrous	A = b = = 6 = -	0	
PLM	9/22/2017	White	0%	100%	Asbestos	Comment	
TEM Grav. Reduction	9/26/2017	White	0.0%	100%	None Detected None Detected		• • • • • • • • • • • • • • • • • • • •
Client Sample ID;	09-20-17-SMM-41B					Lab Sample ID:	621701535-0081
Sample Description:	EXTERIOR./WHITE WINDO	W CAULKING.				Lau Sample ID.	021701333-0061
	Analyzed		Non-A	sbestos			
TEST	Date	Color	Fibrous I	Non-Fibrous	Asbestos	Comment	
PLM	9/22/2017	White	0%	100%	None Detected		
Client Sample ID:	09-20-17-SMM-42A					Lab Sample ID:	621701535-0082
Sample Description:	EXTERIOR/GRAY DOOR (CAULKING.					
	Analyzed		Non-A	sbestos			
TEST	Date	Color	Fibrous †	Non-Fibrous	Asbestos	Comment	
PLM	9/22/2017	White	0%	100%	None Detected		
TEM Grav. Reduction	9/26/2017	Gray	0.0%	100%	None Detected	• • • • • • • • • • • • • • • • • • • •	
Client Sample ID:	09-20-17-SMM-42B					Lab Sample ID:	621701535-0083
Sample Description:	EXTERIOR./GRAY DOOR C	Aulking,					
7507	Analyzed			sbestos			
TEST PLM	9/22/2017	Color		ion-Fibrous	Asbestos	Comment	
		White	0%	100%	None Detected		
Client Sample ID; Sample Description;	09-20-17-SMM-43A EXTERIOR PORCH OVERH	IANG./TAN ASPH	IALT SHINGLES			Lab Sample ID:	621701535-0084
	Analyzed		Non-A	sbestos			
TEST	Date	Color		ion-Fibrous	Asbestos	Comment	
PLM	9/22/2017	Black	4%	96%	None Detected		
TEM Grav. Reduction	9/26/2017	Tan	0.0%	100%	None Detected		• • • • • • • • • • • • • • • • • • • •
Client Sample ID:	09-20-17-SMM-43B					Lab Sample ID:	621701535-0085
Sample Description:	EXTERIOR PORCH OVERH	IANG./TAN ASPH	IALT SHINGLES				
17 40 4 14	Analyzed			sbestos			
TEST	Date	Color	Fibrous N		Asbestos	Comment	
PLM	9/22/2017	Black	5%	95%	None Detected		
Client Sample ID: Sample Description:	09-20-17-SMM-44A EXTERIOR PORCH OVERH	ANG./BLACK TA	R PAPER UNDE	RLAYMENT		Lab Sample ID:	621701535-0086
÷							
	Analyzed		Non-As	bestos			
TEST	Analyzed Date	Color	Non-As Fibrous N		Asbestos	Comment	
PLM	Analyzed Date 9/22/2017	Color Black	Fibrous N 60%	en-Fíbrous 40%	Asbestos None Detected	Comment	·····
ч.м	Analyzed Date	Color	Fibrous N	on-Fibrous		Comment	
PLM TEM Grav. Reduction Client Sample ID: (Analyzed Date 9/22/2017 9/26/2017 09-20-17-SMM-44B	Color Black Black	Fibrous N 60% 0.0%	on-Fíbrous 40% 100%	None Detected	Comment Lab Sample ID:	621701535-0087
PLM TEM Grav. Reduction Client Sample ID: (Analyzed Date 9/22/2017 9/26/2017 09-20-17-SMM-448 EXTERIOR PORCH OVERH,	Color Black Black	Fibrous N 60% 0.0%	on-Fíbrous 40% 100% RLAYMENT.	None Detected		621701535-0087
PLM TEM Grav. Reduction	Analyzed Date 9/22/2017 9/26/2017 09-20-17-SMM-44B	Color Black Black	Fibrous N 60% 0.0%	on-Fibrous 40% 100% RLAYMENT. bestos	None Detected		621701535-0087

Test Report:EPAMultiTests-7.32.2.D Printed: 9/26/2017 05:33PM



161 John Roberts Road South Portland, ME 04106 Phone/Fax: (207) 517-6921 / (207) 517-6922 http://www.EMSL.com / portlandlab@emsl.com

EMSL Order ID: ENVI54 Customer ID: Customer PO: Project ID:

621701535 20170772.A1E

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116 Lab Sample ID: 621701535-0088 09-20-17-SMM-45A Client Sample ID: Sample Description: EXTERIOR PORCH OVERHANG R./WHITE GUTTER CAULKING. Non-Asbestos Analyzed Comment Fibrous Non-Fibrous Asbestos TEST Date Color 100% None Detected 0% White PLM 9/24/2017 100% None Detected 0.0% 9/26/2017 White TEM Grav, Reduction Lab Sample ID: 621701535-0089 09-20-17-SMM-45B Client Sample ID: Sample Description: EXTERIOR PORCH OVERHANG OR WHITE GUTTER CAULKING. Analyzed Non-Asbestos Comment Non-Fibrous Asbestos Fibrous TEST Date Color 100% None Detected White 0% PLM 9/25/2017 Lab Sample ID: 621701535-0090 Client Sample ID: 09-20-17-SMM-46A EXTERIOR PORCH OVERHANG R./EXPANSION JOINT BOARD AGAINST FOUNDATION Sample Description: WALL. Analyzed Non-Asbestos Comment Fibrous Non-Fibrous Asbestos Color TEST Date 50% 50% None Detected PLM 9/24/2017 Gray Lab Sample ID: 621701535-0091 09-20-17-SMM-46B Client Sample ID: EXTERIOR PORCH OVERHANG OR / EXPANSION JOINT BOARD AGAINST Sample Description: FOUNDATION WALL. Analyzed Non-Asbestos Comment Fibrous Non-Fibrous Asbestos TEST Date Color 60% None Detected 40% PLM 9/25/2017 Gray Lab Sample ID: 621701535-0092 09-20-17-SMM-47A Client Sample ID: Sample Description: EXTERIOR / EXTERIOR CMU BLOCK. Non-Asbestos Analyzed Comment Non-Fibrous Asbestos Fibrous Color TEST Date 100% None Detected PLM 9/24/2017 Gray 0% 621701535-0093 Lab Sample ID: 09-20-17-SMM-478 Client Sample ID: Sample Description: EXTERIOR / EXTERIOR CMU BLOCK. Non-Asbestos Analyzed Fibrous Non-Fibrous Asbestos Comment Color TEST Date None Detected 100% 9/25/2017 Gray 0% PLM Lab Sample ID: 621701535-0094 09-20-17-SMM-48A **Client Sample ID:** Sample Description: EXTERIOR / EXTERIOR CMU BLOCK MORTAR. Analyzed Non-Aspestos Comment Asbestos Non-Fibrous Fibrous TEST Date Color 100% None Detected 0% PLM 9/24/2017 Gray Lab Sample ID: 621701535-0095 09-20-17-SMM-48B **Client Sample ID:** Sample Description: EXTERIOR./EXTERIOR CMU BLOCK MORTAR. Analyzed Non-Asbestos Comment Fibrous Non-Fibrous Asbestos TEST Date Color 100% None Detected

9/25/2017

Gray

0%

PL.M



161 John Roberts Road South Portland, ME 04106 Phone/Fax: (207) 517-6921 / (207) 517-6922 http://www.EMSL.com / portlandlab@emsl.com EMSL Order ID: Customer ID: Customer PO: Project ID:

621701535 ENVI54 20170772.A1E

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Analyst(s):

Stephen Severn PLM (44) Zackary Carbee PLM (51) TEM Grav. Reduction (26)

Reviewed and approved by:

Christina Lentz, Laboratory Manager or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. This test report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. EMSL bears no responsibility for sample collection activities or analytical method limitations. The laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples. PLM alone is not consistently reliable in detecting asbestos in floor coverings and similar NOBs

Samples analyzed by EMSL Analytical, Inc. South Portland, ME initial report from: 09/25/201709:09:03

Test Report EPAMult/Tests-7.32.2.D Printed: 9/26/2017 05:33PM



Appendix D

Site Photographs

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Front entrance and covered porch area



Bathroom # 2 window

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Break room window



Bathroom #1 floor tile and cove base

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Black mastic under carpet in hallway/ file storage area



Ceramic floor Bathroom # 2 shop area

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Black mastic under ceramic floor tile system bathroom #2 shop area



Ceramic floor shower area bathroom #2 shop area

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Mudded pipe insulation above drop ceiling bathroom #2 shop area



Floor tile and cove base break room

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White sink under coating break room



Wood grain laminate counter top and backsplash break room

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Carpet adhesive storage room #1

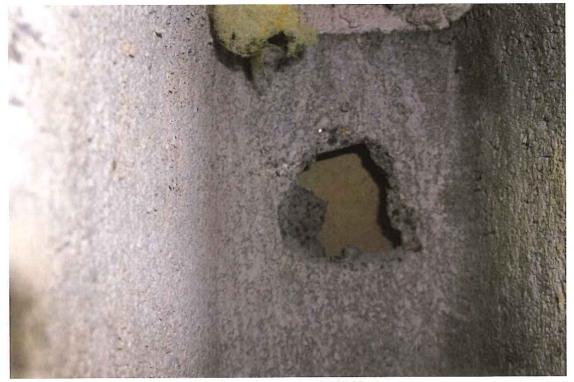


Storage room #2





Exterior CMU block



Interior cavity exterior CMU block

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Appendix E

Lead Determination Field Data Sheets

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		S & O'NEILL oScience, ուշ					www.fando.com
146 Hart	ford Road,	Manchester, CT 06040				(860	0) 646-2469 Fax (860) 649-6883
,		XRF LEAI) DETERMIN	ATION	FIELD DA	ATA SHEET	Page 1 of 3
Inspect	tor Name	Scott	mosse	I	nspector I	icense #:	•
Data	c	1-20-17	XRF M	lodel:	LOAI	Seri	ial: 1377
Date.		Clark	Now) 	Po	oiect Number:	20170772-A1E
Project	Name: _	Gastager	5		11	oject i tumber.	2017072-41E
Addres	s:	086 New Long	la Turne	; ke		Project PM: _	
		XRF	Calibration Ch	eck-RMI) (0.7 to 1.3	3 mg/cm² inclu	<u>sive)</u>
		Hour	irst Reading	Second	Reading	Third Reading	g Average
First C	heck	13000	0.8	0.9	•	019	
Second	l Check	1345	0.9	. 0.8		o.5	
Third (Check						
Fourth	Check						
Side		Surface/Component	Substrate/O	Color	XRF Read	ing Positive (√)	Comments/Notes
A		Block	61	uht	0,0		
A		window fring	, <u>, , , , , , , , , , , , , , , , , , </u>	wh +	-0.1		
A	Ex+	white still	Voryl /	wht	0.2		
A	Ex+	who window	mlu		0.0		
A	Ę¥+	Break Rien Discr Break Rin		kil	0.1		
4	Ext	Dur frin Purch Column	m /Re	****	0,1		
A	Ky+	Perch Sullif		1.wn	-010		, ,,,,,,
4	Eve		· · · · · · · · · · · · · · · · · · ·	irwn ·	-0.0		
A	Ert	Cutter .		<i>i</i> tt	-0.2	•	
A	Ext	Downsport	con / un	st uht	-0.1	2	
B	parrie	mAI Curviale		h+	-0.0		
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		Leilm tik	celothe	I whit	0.0		
A		Dour		Dur	~0.1		
A		Doer tru		own	-0.2	>	
	File	storge will	SR(whit		-0.0		
1	2	love Ben	w/ shar	. Bran	~012		

* Substrate Type: Metal = M, Wood = W, Plaster = P, Sheetrock = S, Concrete = C, Brick = B N/A: Not Accessible; N/C: Not Coated; COV: Covered; VR – Vinyl Replacement

.

Q:\Enviroscience\Admin\FORMS\Lead\XRF\HQ\XRF Lead Determination Field Data Sheets_20161018.Docx



146 Hartford Road, Manchester, CT 06040

www.fando.com

(860) 646-2469 Fax (860) 649-6883

			XRF LEAT	DETERMINATION E	DATA SHEET	、 (CONT)	Page 2 of 3
Project	t Name	:	lasterberg				20170772-A18
					<u>ke</u> Pro	oject PM:	Miguel Muzury
Side		Surface	c/Component	Substrate/Color	XRF Reading	Positive (√)	Comments/Notes
A	File	Reen	•	m/ white	-011		
<u> </u>		4	Ceiltay	certion (white	-011		
A	8-24-	100-7 L-	Deer	w / Real	011		e Garge to Alloy
A			for true	MI Pad	0.4		
A			Brack	B (wht	-0,1		
8			CMU	eno / wht	OIZ		
-			6" Floor tice	Cemiz / Tan	79.9	\checkmark	Backhassen # 2
D			Chro but	ino Bene	-0.0		}
. 2			6" comebane	Cean's the	1.7	1	
			Sharen tik	Cener / Brown	012		
IA			L'Alexan	. w/ Stain Bron	OIZ		
A			workers - SIII	WI shah Brun	012		
Ą			burles [mfel	m / whit/they	-011		
-		^	6:11/2	Gulin / wht	0.2		\checkmark
Ц	Brack	Rm	Donal 2g	ul labite -	- 6.1		Break Rara
C د			time	SR/ white	~0.(
C			4" tan Covesan	Vrigt I Tan	~0.2		
.14			Radicher	tul white	~0.1		
<u> </u>			Cal mets	w / Brown	2010		
<u> </u>		· ···	Char Racl	we show	-0.0		
	,		<<	the whot	-0.1		
A			worder Sill	w / stean	-0.1		
А			trin	w (shin	0.0		
4			would Sarl	W Shan	-01		
			Conten Tal	w (here I	- 003		4
·	,		Pour	w, Sotuce Bran	0.3		Starge RUH1
+ 6 1 .			Door try	trock = S. Concrete = C. Brick = B	0.4		•

* Substrate Type: Metal = M, Wood = W, Plaster = P, Sheetrock = S, Concrete = C, Brick = B N/A: Not Accessible; N/C: Not Coated; COV: Covered; VR – Vinyl Replacement



(860) 646-2469 Fax (860) 649-6883

Page 7 of 3

	Name: <u>Clashiling Don</u>		Project N	176772 - AIE				
Address	: 1086 New Londer	Tompla	Project PM: Miguel Mage					
Side	Surface/Component	Substrate/Color	XRF Reading	Positive (V)	Comments/Notes			
Q	Corge to Pru 41 luce	w/ workson			Sterge Rutt 1			
B	Corge to Rue 41 hud	well Strain	-0.1					
•	Shelving Calibrat	book the Inhite						
~	shelvin	w/ white	0.0		Storge A. HZ			
•	Culibrat	•	0,9		Calibration			
-			0.8					
	L L		0.8		•			
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XRF LEAD DETERMINATION DATA SHEET (CONT.)

* Substrate Type: Metal = M, Wood = W, Plaster = P, Sheetrock = S, Concrete = C, Brick = B N/A: Not Accessible; N/C: Not Coated; COV: Covered; VR – Vinyl Replacement

FUSS & O'NEILL EnviroScience, LLC

146 Hartford Road, Manchester, CT 06040

www.fando.com





Appendix F

Waste Characterization Laboratory Report and Chain-of-Custody Form

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Page 1

Date Samples Received: 09/20/17

Client Name : Fuss & O'Neill EnviroScience	CTL Lab No.: 0917303
Report Date: 09/25/17	PO/ Job No.: 20170772-A1E

RESULTS OF ANALYSIS

TCLP EPA 1311

 Matrix Type :
 S

 CTL Sample No.:
 11123

 Field ID :
 9-20-17-SMM

 TCLP-01

Parameters	RL		Date Analyzed
Lead-mg/L	0.005	0.026	09/25/17

RL= Reporting Limit ND= Not Detected

Matrix Type: W= Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc. 165 Gracey Avenue / Meriden, CT 06451 (203) 634-3731 (Fax) 630-1336 Certification CT-PH0547/ MA-CT035

2036301336	x					_	 -				14:1	8:23	09–25	5201	7	2	/2
			1 CCG Suzale							Received By Laboratory: (Signature) Date/Time	- 4	Turn Around Time	24 HR Day S Day	48 HR* 4 Day* 10 Day	Custody Records. Samples held for 45 days from receipt.		
Requested Analyses		Phil 1	Chyn,							Date/Time	20117	Date/Time	Date/Time		tcorrectly filled out Chain of (·	
CHAIN OF CUSTODY RECORD	(sinnature)	of Bottles RSR Criteria	(<u></u>		•					Received By. (Signature)	Farrow Redhell 3/2	Received By Stimalung 0 25° and 0 21	Received By: (Signature)		CTL will not be held flable for incorrectly filled out Chain of Custody Records.	Connecticut Testing Laboratories, Inc. 165 Gracey Ave. / Meriden, CT 05451 Tet. (200)-634-3731 / Fax (200) 630-1336	
03	ممتعكمين	, Date Time	1619 9-20-11 1					-	-	Date/Time	9-20-17	2 9/21/19 8:3/am		2/21/1/ 1100	y be subject to priority fee charges.	Glasholang CT Hous Carlen Ternoite	• • •
Lab Tracking #: 07/7303	Client Fuss + O'Neil Projecupo # 20170772-A(E Sampler(s): Sout Puess		1123 9-20-17-Sum.							Relinquished By: (Signature)	Scott Muss	Relinquished By: (Signature) Kassi By, Keellee	Revenuished By: (Signature)	4 Mar	"Turmardund times less than " 5 Days" may be subject to priority tee charges.	Dpw Glushnhung CT	

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TOWN OF GLASTONBURY * 2155 MAIN STREET * GLASTONURY * CT

BID / PROPOSAL NO:	GL-2018-06	DATE DUE:	02-15-18
DATE ADVERTISED:	01-18-18	TIME DUE:	11:00 AM

NAME OF PROJECT: Glastonbury Parks Maintenance Facility Addition & Renovations

In compliance with this Invitation to Bid, the Bidder hereby proposes to provide goods and/or services as per this solicitation in strict accordance with the Bid Documents, within the time set forth therein, and at the prices submitted with their bid response.

It is the responsibility of the Bidder to clearly mark the outside of the bid envelope with the Bid Number, Date and Time of Bid Opening, and it also **THE RESPONSIBILITY OF THE BIDDER TO CHECK THE TOWN'S WEBSITE BEFORE SUBMITTING BID FOR ADDENDA POSTED PRIOR TO BID OPENING.**

THE BIDDER ACKNOWLEDGES RECEIPT OF THE FOLLOWING ADDENDA AS REQUIRED:

Addendum #1 _____ (Initial/Date) Addendum #2 _____ (Initial/Date) Addendum #3 _____ (Initial/Date)

OTHER ITEMS REQUIRED WITH SUBMISSION OF BID PROPOSAL:

The following bid checklist describes items required for inclusion with the above-referenced bid proposal package. It is provided for the convenience of the bidders and, therefore, should not be assumed to be a complete list.

1. Bid Bond as per Section 10 of the Information for Bidders (10% of total bid amount).

2. Disclosure of Past and Pending Mediation, Arbitration, and Litigation cases against the Bidder or its Principals as per Section 17 of the Information for Bidders.

- ______ 3. Included Qualifications Statement as per Section 23 of the Information for Bidders.
- 4. Checked Town web site for Addenda and acknowledged Addenda on page BP-1.
- _____ 5. Acknowledgement of Code of Ethics and Non-Collusion Affidavit on page BP-2.
- 6. Included signed statement regarding Compliance with Town Ordinance Prohibiting Natural Gas Waste & Oil Waste From Natural Gas Extraction Activities or Oil Extraction Activities per Section 21 of the Information for Bidders.
- 7. Clearly marked envelope with Bid Number, Date, Time of opening, Bidder's Company Name and address.

GLASTONBURY PARKS MAINTENANCE FACILITY ADDITION & RENOVATIONS BID PROPOSAL

TOTAL LUMP SUM BID AMOUNT

Furnish and install Glastonbury Park Maintenance Facility Addition & Renovations as specified in the Plans and Specifications for Bid GL-2018-06.

(Numeric Amount)

\$

(Written Bid Amount)

NON-COLLUSION AFFIDAVIT:

By submission of this bid, the Bidder certifies, and in the case of a joint bid each party thereto certifies as to their own organization that this bid has been arrived at independently without consultation, communication, or agreement as to any matter relating to this bid with any other Bidder or with any competitor.

CODE OF ETHICS:

I/We have reviewed a copy of the Town of Glastonbury's Code of Ethics and agree to submit a Consultant Acknowledgement Form if I/We are selected. Yes_____ No____*

*Bidder is advised that effective August 1, 2003, the Town of Glastonbury cannot consider any bid or proposal where the Bidder has not agreed to the above statement.

Respectfully submitted:

Type or Print Name of Individual

Signature of Individual

Title

Date

E-Mail Address (Seal – If bid is by a Corporation) Attest Street Address

City, State, Zip Code

Telephone Number/Fax Number

Doing Business as (Trade Name)

SS# or TIN#

ATTACHMENT A: STATE WAGE RATES

Minimum Rates and Classifi for Building Construction ID# : B 24247	Connecticut	Department of Labor splace Standards Division
Statutes of Connecticut, as ame and will apply only where the o	ended, the following are de contract is advertised for bi subcontractor not obligate	ner under provisions of Section 31-53 of the General eclared to be the prevailing rates and welfare payments id within 20 days of the date on which the rates are ed by agreement to pay to the welfare and pension s/her hourly wages.
Project Number: GL-20	18-06	Project Town: Glastonbury

roject manifor.	
State#:	FAP#:

Project: Glastonbury Parks Maintenance Facility Additions And Renovations

CLASSIFICATION	Hourly Rate	Benefits
1a) Asbestos Worker/Insulator (Includes application of insulating materials, protective coverings, coatings, & finishes to all types of mechanical systems; application of firestopping material for wall openings & penetrations in walls, floors, ceilings	38.25	27.96
1b) Asbestos/Toxic Waste Removal Laborers: Asbestos removal and encapsulation (except its removal from mechanical systems which are not to be scrapped), toxic waste removers, blasters.**See Laborers Group 7**		
1c) Asbestos Worker/Heat and Frost Insulator	39.00	28.76

2) Boilermaker	38.34	26.01
3a) Bricklayer, Cement Mason, Concrete Finisher (including caulking), Stone Masons	33.48	30.61 + a
3b) Tile Setter	34.90	24.69
3c) Terrazzo Mechanics and Marble Setters	31.69	22.35
3d) Tile, Marble & Terrazzo Finishers	26.70	21.02
3e) Plasterer	33.48	30.61

-----LABORERS------

4) Group 1: Laborers (common or general), acetylene burners, carpenter tenders, concrete specialists, wrecking laborers, fire watchers.	29.25	19.50
4a) Group 2: Mortar mixers, plaster tender, power buggy operators, powdermen, fireproofer/mixer/nozzleman (Person running mixer and spraying fireproof only).	29.50	19.50
4b) Group 3: Jackhammer operators/pavement breaker, mason tender (brick), mason tender (cement/concrete), forklift operators and forklift operators (masonry).	29.75	19.50
4c) **Group 4: Pipelayers (Installation of water, storm drainage or sewage lines outside of the building line with P6, P7 license) (the pipelayer rate shall apply only to one or two employees of the total crew who primary task is to actually perform the mating of pipe sections) P6 and P7 rate is \$26.80.	29.75	19.50
4d) Group 5: Air track operator, sand blaster and hydraulic drills.	29.75	19.50

4e) Group 6: Blasters, nuclear and toxic waste removal.	31.00	19.50
4f) Group 7: Asbestos/lead removal and encapsulation (except it's	30.25	19.50
removal from mechanical systems which are not to be scrapped).		
4g) Group 8: Bottom men on open air caisson, cylindrical work and boring crew.	28.38	19.50
(th) Group 0: Top mon on open air caisson, culindrical work and boring	27.86	19.50
4h) Group 9: Top men on open air caisson, cylindrical work and boring crew.	27.80	19.50
4i) Group 10: Traffic Control Signalman	16.00	19.50
5) Carpenter, Acoustical Ceiling Installation, Soft Floor/Carpet Laying, Metal Stud Installation, Form Work and Scaffold Building, Drywall	32.60	25.34
Hanging, Modular-Furniture Systems Installers, Lathers, Piledrivers, Resilient Floor Layers.		

33.14	25.74
39.15	25.17+3% of gross wage
50.14	31.585+a+b
25.93	6.5% + 8.53
47.14	6.5% + 20.98
	39.15 50.14 25.93

8) Glazier (Trade License required: FG-1,2)	36.28	20.45 + a
9) Ironworker, Ornamental, Reinforcing, Structural, and Precast Concrete Erection	35.47	33.39 + a
OPERATORS		
Group 1: Crane handling or erecting structural steel or stone, hoisting engineer 2 drums or over, front end loader (7 cubic yards or over), work boat 26 ft. and over and Tunnel Boring Machines. (Trade License Required)	39.30	24.05 + a
Group 2: Cranes (100 ton rate capacity and over); Excavator over 2 cubic yards; Piledriver (\$3.00 premium when operator controls hammer); Bauer Drill/Caisson. (Trade License Required)	38.98	24.05 + a
Group 3: Excavator; Backhoe/Excavator under 2 cubic yards; Cranes (under 100 ton rated capacity), Grader/Blade; Master Mechanic; Hoisting Engineer (all types of equipment where a drum and cable are used to hoist or drag material regardless of motive power of operation), Rubber Tire Excavator (Drott-1085 or similar);Grader Operator; Bulldozer Fine Grade. (slopes, shaping, laser or GPS, etc.). (Trade License Required)	38.24	24.05 + a

Group 4: Trenching Machines; Lighter Derrick; Concrete Finishing Machine; CMI Machine or Similar; Koehring Loader (Skooper).	37.85	24.05 + a
Group 5: Specialty Railroad Equipment; Asphalt Paver; Asphalt Reclaiming Machine; Line Grinder; Concrete Pumps; Drills with Self Contained Power Units; Boring Machine; Post Hole Digger; Auger; Pounder; Well Digger; Milling Machine (over 24" Mandrell)	37.26	24.05 + a
Group 5 continued: Side Boom; Combination Hoe and Loader; Directional Driller; Pile Testing Machine.	37.26	24.05 + a
Group 6: Front End Loader (3 up to 7 cubic yards); Bulldozer (rough grade dozer).	36.95	24.05 + a
Group 7: Asphalt roller, concrete saws and cutters (ride on types), vermeer concrete cutter, Stump Grinder; Scraper; Snooper; Skidder; Milling Machine (24" and under Mandrell).	36.61	24.05 + a
Group 8: Mechanic, grease truck operator, hydroblaster; barrier mover; power stone spreader; welding; work boat under 26 ft.; transfer machine.	36.21	24.05 + a

Group 9: Front end loader (under 3 cubic yards), skid steer loader regardless of attachments, (Bobcat or Similar): forklift, power chipper; landscape equipment (including Hydroseeder).	35.78	24.05 + a
Group 10: Vibratory hammer; ice machine; diesel and air, hammer, etc.	33.74	24.05 + a
Group 11: Conveyor, earth roller, power pavement breaker (whiphammer), robot demolition equipment.	33.74	24.05 + a
Group 12: Wellpoint operator.	33.68	24.05 + a
Group 13: Compressor battery operator.	33.10	24.05 + a
Group 14: Elevator operator; tow motor operator (solid tire no rough terrain).	31.96	24.05 + a

Group 15: Generator Operator; Compressor Operator; Pump Operator; Welding Machine Operator; Heater Operator.	31.55	24.05 + a
Group 16: Maintenance Engineer/Oiler.	30.90	24.05 + a
Group 17: Portable asphalt plant operator; portable crusher plant operator; portable concrete plant operator.	35.21	24.05 + a
Group 18: Power safety boat; vacuum truck; zim mixer; sweeper; (Minimum for any job requiring a CDL license).	32.79	24.05 + a
PAINTERS (Including Drywall Finishing)		
10a) Brush and Roller	32.72	20.45

10b) Taping Only/Drywall Finishing	33.47	20.45
10c) Paperhanger and Red Label	33.22	20.45
10e) Blast and Spray	35.72	20.45
11) Plumber (excluding HVAC pipe installation) (Trade License required: P-1,2,6,7,8,9 J-1,2,3,4 SP-1,2)	41.62	30.36
12) Well Digger, Pile Testing Machine	33.01	19.40 + a
13) Roofer (composition)	34.92	19.28

14) Roofer (slate & tile)	35.42	19.28
15) Sheetmetal Worker (Trade License required for HVAC and Ductwork: SM-1,SM-2,SM-3,SM-4,SM-5,SM-6)	37.18	34.29
16) Pipefitter (Including HVAC work) (Trade License required: S-1,2,3,4,5,6,7,8 B-1,2,3,4 D-1,2,3,4, G-1, G-2, G-8 & G-9)	41.62	30.36
TRUCK DRIVERS		
17a) 2 Axle	29.13	22.32 + a
17b) 3 Axle, 2 Axle Ready Mix	29.23	22.32 + a

17c) 3 Axle Ready Mix	29.28	22.32 + a
17d) 4 Axle, Heavy Duty Trailer up to 40 tons	29.33	22.32 + a
17e) 4 Axle Ready Mix	29.38	22.32 + a
17f) Heavy Duty Trailer (40 Tons and Over)	29.58	22.32 + a
17g) Specialized Earth Moving Equipment (Other Than Conventional Type on-the-Road Trucks and Semi-Trailers, Including Euclids)	29.38	22.32 + a
on-me-Road Trucks and Senn-Traners, including Edends)		
18) Sprinkler Fitter (Trade License required: F-1,2,3,4)	43.92	15.84 + a

19) Theatrical Stage Journeyman

25.76 7.34

Welders: Rate for craft to which welding is incidental.

*Note: Hazardous waste removal work receives additional \$1.25 per hour for truck drivers.

**Note: Hazardous waste premium \$3.00 per hour over classified rate

ALL Cranes: When crane operator is operating equipment that requires a fully licensed crane operator to operate he receives an extra \$4.00 premium in addition to the hourly wage rate and benefit contributions:

1) Crane handling or erecting structural steel or stone; hoisting engineer (2 drums or over)

- 2) Cranes (100 ton rate capacity and over) Bauer Drill/Caisson
- 3) Cranes (under 100 ton rated capacity)

Crane with 150 ft. boom (including jib) - \$1.50 extra Crane with 200 ft. boom (including jib) - \$2.50 extra Crane with 250 ft. boom (including jib) - \$5.00 extra Crane with 300 ft. boom (including jib) - \$7.00 extra Crane with 400 ft. boom (including jib) - \$10.00 extra

All classifications that indicate a percentage of the fringe benefits must be calculated at the percentage rate times the "base hourly rate".

Apprentices duly registered under the Commissioner of Labor's regulations on "Work Training Standards for Apprenticeship and Training Programs" Section 31-51-d-1 to 12, are allowed to be paid the appropriate percentage of the prevailing journeymen hourly base and the full fringe benefit rate, providing the work site ratio shall not be less than one full-time journeyperson instructing and supervising the work of each apprentice in a specific trade.

The Prevailing wage rates applicable to this project are subject to annual adjustments each July 1st for the duration of the project.

Each contractor shall pay the annual adjusted prevailing wage rate that is in effect each July 1st, as posted by the Department of Labor.

It is the contractor's responsibility to obtain the annual adjusted prevailing wage rate increases directly from the Department of Labor's website.

The annual adjustments will be posted on the Department of Labor's Web page: www.ct.gov/dol. For those without internet access, please contact the division listed below.

The Department of Labor will continue to issue the initial prevailing wage rate schedule to the Contracting Agency for the project.

All subsequent annual adjustments will be posted on our Web Site for contractor access.

Contracting Agencies are under no obligation pursuant to State labor law to pay any increase due to the annual adjustment provision.

Effective October 1, 2005 - Public Act 05-50: any person performing the work of any mechanic, laborer, or worker shall be paid prevailing wage

All Person who perform work ON SITE must be paid prevailing wage for the appropriate mechanic, laborer, or worker classification.

All certified payrolls must list the hours worked and wages paid to All Persons who perform work ON SITE regardless of their ownership i.e.: (Owners, Corporate Officers, LLC Members, Independent Contractors, et. al)

Reporting and payment of wages is required regardless of any contractual relationship alleged to exist between the contractor and such person.

~~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 clause (29 CFR 5.5 (a) (1) (ii)).

Please direct any questions which you may have pertaining to classification of work and payment of prevailing wages to the Wage and Workplace Standards Division, telephone (860)263-6790.

FINAL SITE SURVEY

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section specifies requirements and responsibilities for the final site survey.
- B. The final site survey will verify for the Town and the Architect/Engineer that the work authorized was completed in accordance with the specifications, drawings, and contract documents. This work entails the completion of an ALTA/ACSM Land Title Survey of the site by a Connecticut Licensed Land Surveyor to confirm that the grades, structures, utilities, roadways, and all other improvements were built in the proper locations and at the proper elevations.

1.2 RELATED DOCUMENTS

- A. "Minimum Standard Detail Requirements for ALTA/ACSM Land Title Surveys" published February 23, 2011 by the American Land Title Association and the American Congress on Surveying and Mapping.
- B. "Standards for Surveys and Maps in the State of Connecticut" prepared and adopted by the Connecticut Association of Land Surveyors, Inc. September 26, 1996. Section: Improvement Location Survey – Record.
- C. Drawings and general provisions of the Contract, including General and Special Conditions and other Division 1 Specification Sections.
- D. Specifications throughout all Divisions of the Project Manual are directly applicable to this Section, and this Section is directly applicable to them.

PART 2 – PRODUCTS (NOT USED)

PART 3 – EXECUTION

3.1 SUBMISSION REQUIREMENTS

- A. Upon completion of the work, each Prime Contractor shall furnish to the Town, mylar reproducible drawings at the scale of the contract drawings depicting the completed improvements. These drawings shall bear the seal of a registered land surveyor in the State of Connecticut.
- B. Associated electronic files in AutoCAD DWG format and Adobe PDF format shall also be provided on CD to the Town.

- C. Drawings shall include the following survey information at a minimum:
 - 1. Building foundations with finish floor elevations; distances of foundation from property lines and to adjacent buildings.
 - 2. Dimensions and locations of roadways, drives, parking areas, walks, walls, landscaping, light fixtures, and other new structures and improvements.
 - 3. Topography at the contour interval depicted on the contract plans showing finished grades of improved parking areas, lawn areas, and landscaped areas to show conformance with approved grading plans.
 - 4. Locations of all overhead and underground utility services including invert elevations and/or burial depth, including but not limited to storm drainage, sanitary sewers, water, gas, electric, telephone, communications, and irrigation.
 - 5. Locations and elevations of all items installed by each respective prime contractor and their subcontractor.
- D. The following additional information as described in "TABLE A OPTIONAL SURVEY RESPONSIBILITIES AND SPECIFICATIONS" of the referenced ALTA/ACSM Specification, on the following pages of this specification.

TABLE A

OPTIONAL SURVEY RESPONSIBILITIES AND SPECIFICATIONS

NOTE: The items of Table A must be negotiated between the surveyor and client. It may be necessary for the surveyor to qualify or expand upon the description of these items (e.g., in reference to Item 6(b), there may be a need for an interpretation of a restriction). The surveyor cannot make a certification on the basis of an interpretation or opinion of another party. Notwithstanding Table A Items 5 and 11(b), if an engineering design survey is desired as part of an ALTA/ACSM Land Title Survey, such services should be negotiated under Table A, item 22.

If checked, the following items are to be included in the ALTA/ACSM LAND TITLE SURVEY, except as otherwise qualified (see note above):

- 1. _____ Monuments placed (or a reference monument or witness to the corner) at all major corners of the boundary of the property, unless already marked or referenced by existing monuments or witnesses.
- 2. ____ Address(es) if disclosed in Record Documents, or observed while conducting the survey.
- 3. _____ Flood zone classification (with proper annotation based on federal Flood Insurance Rate Maps or the state or local equivalent) depicted by scaled map location and graphic plotting only.
- 4. Gross land area (and other areas if specified by the client).
- 5. _____ Vertical relief with the source of information (e.g. ground survey or aerial map), contour interval, datum, and originating benchmark identified.
- 6. _____ (a) Current zoning classification, as provided by the insurer.
 - (b) Current zoning classification and building setback requirements, height and floor space area restrictions as set forth in that classification, as provided by the insurer. If none, so state.
- 7. (a) Exterior dimensions of all buildings at ground level.
 - (b) Square footage of:
 - (1) exterior footprint of all buildings at ground level.
 - _____ (2) other areas as specified by the client.
 - (c) Measured height of all buildings above grade at a location specified by the client. If no location is specified, the point of measurement shall be identified.

- 8. _____ Substantial features observed in the process of conducting the survey (in addition to the improvements and features required under Section 5 above) such as parking lots, billboards, signs, swimming pools, landscaped areas, etc.
- 9. ____ Striping, number and type (e.g. handicapped, motorcycle, regular, etc.) of parking spaces in parking areas, lots and structures.
- 10. (a) Determination of the relationship and location of certain division or party walls designated by the client with respect to adjoining properties (client to obtain necessary permissions).
 - (b) Determination of whether certain walls designated by the client are plumb (client to obtain necessary permissions).
- 11. Location of utilities (representative examples of which are listed below) existing on or serving the surveyed property as determined by:
 - (a) Observed evidence.

 $_\checkmark_$ (b) Observed evidence together with evidence from plans obtained from utility companies or provided by client, and markings by utility companies and other appropriate sources (with reference as to the source of information).

- Railroad tracks, spurs and sidings;
- Manholes, catch basins, valve vaults and other surface indications of subterranean uses;
- Wires and cables (including their function, if readily identifiable) crossing the surveyed property, and all poles on or within ten feet of the surveyed property. Without expressing a legal opinion as to the ownership or nature of the potential encroachment, the dimensions of all encroaching utility pole crossmembers or overhangs; and
- utility company installations on the surveyed property.

Note - With regard to Table A, item 11(b), source information from plans and markings will be combined with observed evidence of utilities to develop a view of those underground utilities. However, lacking excavation, the exact location of underground features cannot be accurately, completely and reliably depicted. Where additional or more detailed information is required, the client is advised that excavation may be necessary.

- 12. _____ Governmental Agency survey-related requirements as specified by the client, such as for HUD surveys, and surveys for leases on Bureau of Land Management managed lands.
- 13. ____ Names of adjoining owners of platted lands according to current public records.
- 14. _____ Distance to the nearest intersecting street as specified by the client.
- 15. _____ Rectified orthophotography, photogrammetric mapping, airborne/mobile laser scanning and other similar products, tools or technologies as the basis for the showing the location of certain features (excluding boundaries) where ground measurements are not otherwise necessary to locate those features to an appropriate and acceptable accuracy relative to a nearby boundary. The surveyor shall (a) discuss the ramifications of such methodologies (e.g. the potential precision and completeness of the data gathered thereby) with the insurer, lender and client prior to the performance of the survey and, (b) place a note on the face of the survey explaining the source, date, precision and other relevant qualifications of any such data.
- 16. _____ Observed evidence of current earth moving work, building construction or building additions.

- 17. ____ Proposed changes in street right of way lines, if information is available from the controlling jurisdiction. Observed evidence of recent street or sidewalk construction or repairs.
- 18. ____ Observed evidence of site use as a solid waste dump, sump or sanitary landfill.
- 19. _____ Location of wetland areas as delineated by appropriate authorities (as indicated on the contract drawings, re-flagging by Soil Scientist not required).
- 20. ____ (a) Locate improvements within any offsite easements or servitudes benefitting the surveyed property that are disclosed in the Record Documents provided to the surveyor and that are observed in the process of conducting the survey (client to obtain necessary permissions).
 - (b) Monuments placed (or a reference monument or witness to the corner) at all major corners of any offsite easements or servitudes benefitting the surveyed property and disclosed in Record Documents provided to the surveyor (client to obtain necessary permissions).
- 21. _____ Professional Liability Insurance policy obtained by the surveyor in the minimum amount of \$______ to be in effect throughout the contract term. Certificate of Insurance to be furnished upon request.

22.



October 10, 2017

Mr. Ray Purtell Director of Parks & Recreation Town of Glastonbury 2143 Main Street Glastonbury, CT 06033

Re: Hazardous Materials Scope Sheet Additions and Renovations Glastonbury Parks Maintenance Facility 1086 New London Turnpike, Glastonbury, CT Fuss & O'Neill EnviroScience Project No. 20170772.A1E

Dear Mr. Purtell:

Enclosed is the hazardous materials scope sheet for proposed renovations for the Glastonbury Parks Maintenance Facility located at 1086 New London Turnpike in Glastonbury, Connecticut. The work was conducted for the Town of Glastonbury (the "Client").

If you should have any questions regarding the contents of this report, please do not hesitate to contact me at (860) 646-2469, extension 5574. Thank you for this opportunity to have served your environmental needs.

Sincerely,

Elmer Mark

Eduardo Miguel Marques // Senior Environmental Analyst

EMM/kr

146 Hartford Road Manchester, CT 06040 † 860.646.2469 800.286.2469 f 860.533.5143

www.fando.com

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GLASTONBURY PARKS MAINTENANCE FACILITY ADDITIONS & RENOVATIONS HAZARDOUS MATERIALS SCOPE SHEET



1.0 ASBESTOS ABATEMENT

1.1 Summary of Work

- A. Work outlined in this Section includes all work necessary for the removal, packaging, transporting, and disposing of asbestos-containing materials (ACM) impacted during the renovation project (the "Work") at the Glastonbury Parks and Maintenance Facility, located at 1086 New London Turnpike in Glastonbury, Connecticut (the "Site"). Please refer to the Limited Hazardous Building Materials Inspection report dated September 28, 2017.
- B. The base bid includes the removal, packaging, transporting, and disposing of all ACM as identified herein conducted by workers meeting the requirements of OSHA Title 29 CFR, Part 1926.1101.
- C. The quantities are estimates only and should be verified by the Contractor.
- D. The base bid includes the following ACM:

LOCATION	MATERIAL TYPE	ESTIMATED QUANTITY
Bathroom #1	Floor tile and associated mastic (Refer to HM-01 for Additional Information)	60 SF
Yellow/tan mastic and associated cove base	Break Room (Refer to HM-01 for Additional Information)	25 LF

BASE BID - ASBESTOS

SF = Square Feet

LF = Linear Feet

1.2 Regulations and Standards

- A. The Contractor shall be solely responsible for conducting this project and supervising all work in a manner that will be in conformance with all federal, state, and local regulations and guidelines pertaining to asbestos abatement. Specifically, the Contractor shall comply with the requirements of the following:
 - 1. EPA National Emissions Standards for Hazardous Air Pollutants (NESHAPS) Regulations (Title 40 CFR, Part 61, Subpart M);
 - 2. EPA Asbestos Hazards Emergency Response Act (AHERA) Regulations (Title 40 CFR, Part 763, Subpart E);
 - 3. OSHA Asbestos Regulations (Title 29 CFR, Parts 1910.1001 and 1926.1101); and
 - Department of Transportation (DOT) Hazardous Waste Transportation Regulations (Title 49 CFR, Parts 170 – 180).
 - 5. Connecticut Department of Energy and Environmental Protection (CTDEEP) Regulations (Section 22a-209-8(i) and Section 22a-220 of the Connecticut General Statutes);



- 6. CTDPH Standards for Asbestos Abatement (Sections 19a-332a-1 to 19a-332a-16);
- 7. CTDPH Licensing and Training Requirements for Persons Engaged in Asbestos Abatement and Asbestos Consultant Services (Sections 20-440-1 to 20-440-9 and Section 20-441);
- 8. 2003 International Building Code as adopted by the 2005 State of Connecticut Building Code including the 2009, 2011, 2013, and 2016 amendments;
- 9. Life Safety Code, National Fire Protection Association (NFPA);
- 10. Local health and safety codes, ordinances, or regulations pertaining to asbestos remediation and all national codes and standards including American Society of Testing and Materials (ASTM), American National Standards Institute (ANSI), and Underwriter's Laboratories (UL).
- B. After the visual inspection is completed and all surfaces in the abatement area have dried, the Consultant shall conduct final re-occupancy air clearance sampling. Aggressive air monitoring will be used. Selection of location and of samples shall be the responsibility of the Consultant. Air monitoring volumes shall be sufficient to provide a detection limit of 0.010 fibers/cc using PCM NIOSH Method 7400.
- C. Asbestos-containing and/or asbestos-contaminated material disposal must be in compliance with requirements of, and authorized by the EPA, CTDEEP, and the State of Connecticut.

2.0 POLYCHLORINATED BIPHENYL ABATEMENT

2.1 Summary of Work

- A. Work includes all work necessary for the removal and disposal of the presumed greater than or equal to (≥) 50 parts per million (ppm) PCB-containing materials (PCB Bulk Product Waste) impacted during the renovation work at the Site. The removal and disposal of PCB Bulk Product Waste will be performed in accordance with 40 CFR 761.62 (b) as Performance Based Disposal.
- B. Work includes disposal of PCB Remediation Waste in the form of containment barriers, personal protective equipment, cleaning supplies, and waste water generated during the presumed PCB Bulk Product Abatement at the Site. The removal and disposal of PCB Remediation Waste will be performed in accordance with 40 CFR 761.61 (b) as Performance Based Disposal.
- C. The base bid includes the removal, packaging, transporting, and disposal of the presumed PCB Bulk Product Waste and PCB Remediation Waste as identified herein, conducted by workers in accordance with OSHA, EPA, and Connecticut Department of Energy and Environmental Protection (CTDEEP) regulations. The base bid will include the cost for removal, packaging, transporting, and disposing PCB- Bulk Product Waste and PCB Remediation Waste.
- D. The quantities listed herein are estimates only, and should be verified on-site by the Contractor.



E. This bid includes the following:

LOCATION	MATERIAL TYPE	ESTIMATED QUANTITY
	Interior Window Glazing Compound	
Break Room	(Material Presumed to Contain PCBs)	60 LF
	(Refer to HM-01 for Additional Information)	
	Exterior Door Caulking Compound	
Break Room	(Material Presumed to Contain PCBs)	17 LF
	(Refer to HM-01 for Additional Information)	
Bathroom #1 and	Interior Caulking on CMU Block, Sinks, and Urinals	
Bathroom #2	(Material Presumed to Contain PCBs)	156 LF
Daunoom #2	(Refer to HM-01 for Additional Information)	
Bathroom #2 and Break	White Window Caulking Compound	
	(Material Presumed to Contain PCBs)	30 LF
Room	(Refer to HM-01 for Additional Information)	
Exterior Gutter at Front	White Caulking Compound	
	(Material Presumed to Contain PCBs)	4 LF
Entrance Area	(Refer to HM-01 for Additional Information)	

BASE BID - PCB BULK PRODUCT WASTE

BASE BID – PCB REMEDIATION WASTE

LOCATION	MATERIAL TYPE	ESTIMATED QUANTITY
Community Room	Containment, PPE, Cleaning Materials & Supplies, & Waste Generated During Removal of PCB Bulk Product Waste (Refer to HM-01 for Additional Information)	ALL

F. The Contractor shall be responsible for all packaging, labeling, transport, disposal, and recordkeeping associated with PCB Bulk Product Waste and PCB Remediation Waste in accordance with all federal, state, and local regulations.

2.2 Regulations and Standards

- A. The Contractor shall be solely responsible for conducting this project and supervising all work in a manner that will be in conformance with all federal, state, and local regulations and guidelines pertaining to PCB abatement. Specifically, the Contractor shall comply with the requirements of the following:
 - 1. EPA TSCA (Title 40 CFR, Part 761);
 - 2. OSHA Hazardous Waste Operations and Emergency Response Regulations (Title 29 CFR, Parts 1910.120);
 - 3. OSHA Respiratory Protection Standard (Title 29 CFR, Part 1910.134)
 - 4. OSHA Hazard Communication (Title 29 CFR, Part 1910.1200)
 - Department of Transportation (DOT) Hazardous Waste Transportation Regulations (Title 49 CFR, Parts 170 – 180).



- 6. CTDEEP Regulations; Including Connecticut General Statue (CGS) 22a-463-468.
- 7. 2003 International Building Code as adopted by the 2005 State of Connecticut Building Code including the 2009, 2011, and 2013 amendments;
- 8. Life Safety Code (National Fire Protection Association [NFPA]);
- 9. Local health and safety codes, ordinances, or regulations pertaining to PCB remediation and all national codes and standards including ASTM, ANSI, and Underwriter's Laboratories.

3.0 LEAD PAINT AWARENESS

3.1 Summary of Work

- A. Work includes requirements for worker protection and waste disposal related to work involving lead-based paint (LBP)-coated building components and surfaces associated with the renovation work at the Site. Please refer to the Limited Hazardous Building Materials Inspection report dated September 28, 2017 for results of the lead-based determination. The lead-based paint determination indicated consistent painting trends associated with representative building components that may be impacted by renovation work. The following coated building components tested during this determination were determined to contain toxic levels of lead (greater than 1.0 mg/cm²):
 - Vinyl cove base Bathroom #1
 - 6" Ceramic floor tile and cove base Bathroom #2, shop area
- B. The renovation work impacting LBP may result in dust and debris exposing workers to levels of lead above the Occupational Safety and Health Administration's (OSHA) Action Level. Worker protection, training, and engineering controls as may be required based on the work shall be strictly followed in accordance with 29 CFR 1926.62 for Lead in Construction. All contractors are responsible for their respective employees with respect to potential disturbance of LBP during renovation work. Until completion of exposure assessment with results indicating exposures below the "Action Level". This work does not involve lead abatement, but identifies worker protection requirements for trades involved in the renovation and demolition work specified elsewhere in the contract documents and disposal procedures if lead is involved in the demolition waste stream.
- C. Construction activities disturbing surfaces with lead-containing paint that are likely to be employed, such as demolition, sanding, grinding, welding, cutting, and burning. These activities have been known to expose workers to levels of lead in excess of the OSHA Permissible Exposure Limit (PEL). All work shall be in conformance with OSHA regulations including 29 CFR 1910.1025, 1910.1200, and 1926.62.
- D. The Contractor's contractual liability shall be the proper disposal of all wastes generated at the Site in accordance with all applicable federal, state, and local regulations as referenced herein. Paint chips or other debris resulting from work may require special disposal. The Contractor shall be responsible for determining waste disposal requirements for expected wastes from their operations and include such costs in their bids.



4.0 HANDLING OF MERCURY-CONTAINING DEVICES

4.1 Summary of Work

- A. The scope of work is work necessary to facilitate the removal of mercury-containing equipment specified to be removed as part of the renovation work at the Site.
- Β. Mercury Equipment: Work of this Section includes, but is not necessarily limited to: all that is necessary for complete removal and disposal/recycling/reclamation of presumed mercurycontaining equipment that exist in the building interior to be renovated.
- C. The Contractor shall coordinate this work with architectural drawings for the actual quantities of the work required. Only mercury-containing equipment proposed for demolition requires removal.
- D. The Contractor shall be responsible for verification of actual quantities of the above mentioned items requiring removal and disposal.

Mercury-Containing Equipment Inventory	
Туре	Estimated Quantity
4' Light Tube	42

- Table 1
- E. The Contractor shall comply with applicable regulations including to worker protection and disposal regulations and standards in the performance of the work. This shall include but not be limited to compliance with OSHA Regulations Title 29 CFR, Parts 1910.1200 Hazard Communications and 1926.65 OSHA regulates workers' safety and exposure to a variety of chemicals including mercury. The following regulations and standards of federal and state agencies apply to the disposal of mercury-containing equipment:
 - 1. EPA RCRA Regulations Title 40 CFR, Part 261, Subpart C.
 - 2. EPA RCRA - 40 CFR Part 273.
 - 3. Comprehensive Environmental Response, Compensation, and Liability Act (Superfund Law).
 - 4. DOT Regulations - Pipeline and Hazardous Materials Safety Administration regulation DOT Title 49 CFR, Parts 100-185, as applicable.

END OF SCOPE SHEET



ATTACHMENT A

HAZARDOUS MATERIALS ABATEMENT PLAN HM-01

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