



BID INVITATION

Pawtucket Housing Authority

Galego Court Asbestos Abatement

**483 Weeden Street
Pawtucket, RI 02860**

July 18, 2022

Prepared for:

Pawtucket Housing Authority
214 Roosevelt Avenue
Pawtucket, RI 02862



Prepared by:

Environmental Strategies & Management, Inc.
1005 Main Street, Suite #8120
Pawtucket, RI 02860
(401) 728-6860

ES&M Project No.: 7180.27

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DIVISION 00 – BIDDING AND CONTRACT REQUIREMENTS

*Pawtucket Housing Authority
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**Pawtucket Housing Authority
ADVERTISEMENT FOR BIDS
Galego Court Asbestos Abatement**

Sealed bids for the **Pawtucket Housing Authority, Galego Court Asbestos Abatement Project** will be received at the Pawtucket Housing Authority (PHA) until **1:00 PM on August 12, 2022**. Each sealed bid needs to be marked on the outside of the envelope "Pawtucket Housing Authority, Galego Court Asbestos Abatement Project". This project is subject to prevailing wage rates. Minority and women owned businesses are encouraged to submit bids.

The Pawtucket Housing Authority, Galego Court Asbestos Abatement Project work encompassed under this Contract shall include, but not limited to, establishing a perimeter around specified work area, posting proper signage of possible hazards on site, filing for applicable State and Local permits, asbestos abatement of applicable areas in coordination with the PHA, all as shown on the contract documents, and providing all materials, labor, tools and incidentals necessary to complete the work of this contract to the satisfaction of the Owner.

The Bidder must agree to commence work and fully complete the work of this Contract on the dates specified in the contract documents. The Bidder must agree also to pay liquidated damages for each consecutive calendar day thereafter as hereinafter provided in the Contract and General Conditions.

BID SECURITY in the form of bid bond, certified check, treasurer's check or cashier's check in the amount of 5(%) percent of the bid amount must accompany each Bid. No bidder may withdraw his Bid within 90 days after the actual date of the opening thereof.

Plans and Bid Documents are available on the website of the Pawtucket Housing Authority (pawthousing.org) under Bids/RFPs tab starting on **July 18, 2022**. It will be the Bidders responsibility to check the website for any addendum posted.

There will be a **non-mandatory** pre-bid conference on **July 25, 2022 at 10:00 AM** at the Project Site, 483 Weeden Street, Pawtucket RI. Plans and Bid Documents are available.

Successful bidder must furnish 100% Performance Bond and 100% Labor and Material Payment Bond and the required insurance certificates and execute the Agreement within (10) calendar days following notification of the Acceptance of his/her Bid.

The Pawtucket Housing Authority reserves the right to reject any and all bids, to waive any technical or legal deficiencies, to accept individual bid items and excluding others, and to accept any a bid that it may deem to be in the best interest and most responsive of the Owner.

Attention of the bidders is particularly called to the requirements as to conditions of employment to be observed and minimum wage rates to be paid under the Contract. In conformity with the Provisions of Chapter 13 of Title 37, General Laws, Rhode Island, 1956, as amended, the minimum wages for a day's work paid to craftsmen, teamsters and laborers shall be not less than the customary and prevailing rate of wages for a day's work in the locality where the work is undertaken. Such a schedule of wages has been established on a minimum hourly basis and is on file in the office of the State Department of Labor.

All questions shall be submitted in writing via email to Roy Messier, Project Engineer of ES&M 401-728-6860, Ext. 212. email: rmessier@esm-inc.com by July 29, 2022 at 3:00 PM. Upon receipt of any written questions, an addendum will be issued to all bidders on August 2, 2022.

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INFORMATION TO BIDDERS

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Information to Bidders - 1

INFORMATION TO BIDDERS

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2. PREPARATION OF BID
3. TELEGRAPHIC MODIFICATION
4. CORRECTIONS
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23. RHODE ISLAND SALES AND USE TAX
24. JOB CONDITIONS
25. PRECONSTRUCTION CONFERENCE
26. LABOR REGULATIONS
27. PRE BID CONFERENCE

ARTICLE 1: RECEIPT AND OPENING OF BIDS

Sealed Bids for the work will be received and opened at the time and place indicated in the ADVERTISEMENT FOR BIDS.

Each Bid must be submitted in duplicate in a sealed envelope addressed to Pawtucket Housing Authority, 214 Roosevelt Avenue, Pawtucket RI 02860 and clearly labeled **“Pawtucket Housing Authority, Galego Court Asbestos Abatement Project”** and bear the Title, Date and Time of Opening in the lower left corner. The envelope shall also bear the name and address of the Bidder.

If forwarded by mail, the sealed envelope containing the Bid must be enclosed in a second sealed envelope addressed to the Pawtucket Housing Authority, 214 Roosevelt Avenue, Pawtucket RI, 02860 and labeled **"Pawtucket Housing Authority, Galego Court Asbestos Abatement Project"** as above. All bids forwarded by mail must be received in the office of PHA no later than 1:00 P.M. **August 12, 2022.**

The Owner may consider informal any bid not prepared and submitted in accordance with the provisions hereof and may waive any informality in or reject any and all bids. Conditional or qualified bids will not be accepted. Any bid received after the time and date specified shall not be considered. Should there be reasons why the Contract cannot be awarded within the specified period; the time may be extended by mutual agreement between the Owner and the bidder.

ARTICLE 2: PREPARATION OF BID

Each bid must be filled out on the prescribed forms. All blank spaces for bid prices must be filled in, in ink or typewritten, both in words and figures. All bids must be prepared in conformity with and shall be based on and submitted subject to all requirements of the Specifications and Drawings, together with all Addenda thereto. **All documents must be filled out and submitted with bid.** Incomplete bids will be rejected.

ARTICLE 3: TELEGRAPHIC MODIFICATION

Any bidder may modify his bid by telegraphic communication at any time prior to the scheduled closing time for receipt of bids, provided such telegraphic communication is received by the Owner prior to the closing time, and provided further, the Owner is satisfied that written confirmation of the telegraphic modification over the signature of the bidder was mailed and postmarked prior to the closing time.

The telegraphic communication should not reveal the bid price but should provide the addition or subtraction or other modifications so that the final prices or items will not be known by the Owner until the sealed bid is opened. If written confirmation is not received prior to the bid closing time, no consideration will be given to the telegraphic modification.

ARTICLE 4: CORRECTIONS

Erasures or other changes in the bid must be explained or noted over the signature of the bidder.

ARTICLE 5: WITHDRAWAL OF BIDS

Bids may be withdrawn only on written request dispatched by the bidder in time for delivery in
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the normal course of business prior to the time fixed for the opening, provided that written confirmation of any withdrawal over the signature of the bidder is placed in the mail and postmarked prior to the time set for the opening of the bids. Negligence on the part of the bidder in preparing his bid confers no right of withdrawal or modification of his bid after such bid has been opened. No bidder may withdraw his bid within ninety (90) days after the actual date of the opening thereof.

ARTICLE 6: QUALIFICATIONS OF THE BIDDER

The Owner may make such investigations as he deems necessary to determine the ability of the bidder to perform the work, and the bidder shall furnish to the Owner all such information and data for this purpose as the Owner may request. The Owner reserves the right to reject any bid if the evidence submitted by, or investigation of, such bidder fails to satisfy the Owner that such bidder is properly qualified to carry out the obligations of the Contract and to complete the work contemplated therein.

ARTICLE 7: OBLIGATIONS OF THE BIDDER

Bidders must satisfy themselves by personal examination at the site of the proposed work, by review of the Drawings and the Specifications including Addenda, and by such other means as they may prefer, as to the actual conditions, requirements, and limits of the proposed work, and as to the accuracy of the information and statements herein contained. The submission of any bid will be accepted by the Owner as satisfactory proof that the bidder has satisfied himself in these respects. The bidder shall not at any time after the submission of a bid dispute or complain of such statements or information, nor assert that there was any misunderstanding in regard to the nature, or amount of work to be done. The failure or omission of any bidder to examine any form, instrument or document shall in no way relieve the bidder of his obligation to furnish all materials and labor necessary to carry out the provisions of the Contract Documents and to complete the contemplated work for the considerations set forth in his bid, if his bid is accepted.

ARTICLE 8: CONDITIONS OF WORK

Insofar as possible, the Contractor, in carrying out his work, must employ such methods or means as will not cause any interruption of or interference with traffic, with the use of existing facilities and utilities, with the use of municipally or State or privately owned lands, or with the work being performed by others. The Contractor must satisfy himself by his own investigation and research as to the nature and location of the work, the general and local conditions, including, but not restricted to, those bearing upon the transportation, disposal, handling and storage of materials, water, electric power, roads, means of access, the construction and making of connections of the work to existing facilities and utilities, or other similar conditions at the site, the character of equipment and facilities needed preliminary to and during the prosecution of the work, requirements of owners and controlling authorities having jurisdiction over the various lands, existing structures, facilities and utilities, and all other conditions affecting the work to be done and labor and materials needed.

ARTICLE 9: INFORMATION SUPPLIED TO BIDDERS

The Owner shall provide to bidders prior to bidding all information that is pertinent to, and delineates and describes, the land owned and rights-of-way acquired or to be acquired.

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The Contract Documents contain the provisions required for the construction of the project. Information obtained from any officer, agent, or employee of the Owner or any other person shall not affect the risks or obligations assumed by the contractor or relieve him from fulfilling any of the conditions of the Contract. Any information given relating to subsurface and other conditions, natural phenomena, existing pipes and other structures is from the best sources available to the owner. All such information is furnished for the information and convenience of bidders and is not guaranteed.

ARTICLE 10: BID SECURITY

Each bid must be accompanied by a certified check of bidder, or a bid bond prepared on the form of bid bond attached hereto, duly executed by the bidder as principal and having as surety thereon a surety company approved by the Owner, in the amount of (5) Five (%) percent of the bid. Such checks or bid bonds will be returned to all but the selected bidder within three days after the Owner and the accepted bidder have executed the contract; or if no award has been made within 90 days after the date of the opening of the bids, upon demand of the bidder at any time thereafter, so long as he has not been notified of the acceptance of his bid. The check or 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.

ARTICLE 11: METHOD OF AWARD

This contract will be awarded based on the lowest qualified bid, experience of the bidder, and most responsive bid that reflects the best product received by Pawtucket Housing Authority.

ARTICLE 12: EXECUTION OF THE AGREEMENT

A contract in the form set forth hereinafter will be required to be executed by the successful bidder and the Owner. The attention of all bidders, therefore, is called to the form of the Agreement and the provisions thereof. The party to whom the Contract is awarded will be required to obtain the performance bond and payment bond within ten (10) calendar days from the date when the Notice of Award is delivered to the bidder. The Notice of Award shall be accompanied by the necessary Agreement and bond forms. The Contractor shall furnish a performance bond and a payment bond, each in the amount of 100 percent of the Contract Price, with a corporate surety approved by the Owner, as security for faithful performance of Contract.

ARTICLE 13: LIQUIDATED DAMAGES FOR FAILURE TO ENTER INTO CONTRACT

The successful bidder, upon his failure or refusal to execute and deliver the Contract and bonds required within 10 days after he has received notice of the acceptance of his bid, shall forfeit to the Owner, as liquidated damages for such failure or refusal, the surety deposited with his bid.

ARTICLE 14: NOTICE TO PROCEED

The Notice to Proceed shall be issued within ten (10) days of the execution of the Agreement by the Owner. Should there be reasons why the Notice to Proceed cannot be issued within such period; the time may be extended by mutual agreement between the Owner and Contractor. If the Notice to Proceed

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has not been issued within the ten (10) day period or within the period mutually agreed upon, the Contractor may terminate the Agreement without further liability on the part of either party.

ARTICLE 15: TIME OF COMPLETION AND LIQUIDATED DAMAGES

The bidder must agree to commence construction work on the date specified in the written Notice to Proceed of the Owner and to fully complete the Project within **sixty (60) calendar days**. The Owner reserves the right to stop all work due to severe weather conditions, or other such conditions that may in his/her opinion interfere with the normal operation of the site and/or the safety of its occupants. The bidder must agree also to pay as liquidated damages, the sum of \$300.00 for each consecutive calendar day thereafter as hereinafter provided in the Contract and General Conditions.

ARTICLE 16: POWER OF ATTORNEY

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

ARTICLE 17: ADDENDA AND INTERPRETATIONS

No interpretation of the meaning of the Drawings, Specifications, or other pre-bid documents will be made to any bidder orally. Every request for such interpretation should be in writing, addressed to Environmental Strategies & Management, Inc., 1005 Main Street, Suite #8120, Pawtucket, RI 02860; or via email to Roy Messier with Environmental Strategies & Management, Inc. (rmessier@esm-inc.com).

In order to be given consideration, such request must be made at least five- (5) workdays prior to the date fixed for the opening of bids. Any and all interpretations and any supplemental instructions will be in the form of written Addenda to the Specifications, which, if issued, will be transmitted electronically by email with return receipt requested to all prospective bidders, not later than three work days prior to the date fixed for the opening of bids. Failure of any bidder to receive any such addenda or interpretations shall not relieve the bidder from any obligation under his bid as submitted. All Addenda so issued shall become a part of the Contract Documents.

ARTICLE 18: NOTICE OF SPECIAL CONDITIONS

Attention is particularly called to those parts of the Contract Documents and Specifications that deal with the following:

- A. inspection and testing of materials
- B. insurance requirements
- C. wage rates
- D. interpretation of Drawings and Specifications

ARTICLE 19: LAWS AND REGULATIONS

The bidder's attention is directed to the fact that all applicable State laws, municipal ordinances and rules, and regulations of all authorities having jurisdiction over construction of the project shall apply to the Contract the same as though herein written in full.

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ARTICLE 20: MANUFACTURER'S EXPERIENCE

Wherever it may be written that an equipment manufacturer must have a specified period of experience with his product, equipment which does not meet the specified experience period may, at the option of the Owner, be considered if the equipment supplier of manufacturer is willing to provide a bond or cash deposit for the duration of the specified time period which will guarantee replacement of that equipment in the event of failure.

ARTICLE 21: ACCESS TO SITE

Representatives of the "OWNER" shall have access to the work wherever it is in preparation or progress and the Contractor shall provide proper facilities for such access and inspection.

ARTICLE 22: SOIL BORINGS

No Soil Borings for this Project

ARTICLE 23: RHODE ISLAND SALES AND USE TAX

Materials and equipment purchased for installation under this Contract are exempt from the Rhode Island Sales Tax. The exemption from the Sales Tax shall be taken into account by the Contractor during bidding.

ARTICLE 24: JOB CONDITIONS

The bidder is advised that free vehicular and pedestrian access must be maintained to the site at all times. The method of construction must be therefore compatible with this requirement of free access.

ARTICLE 25: PRECONSTRUCTION CONFERENCE

The Contractor shall be prepared to attend a pre-construction conference scheduled by the Owner after award of the Contract, but prior to the actual commencement of work at the site. The main item of discussion will be the Contractor's construction schedule, the proposed Superintendent, and access for residents.

ARTICLE 26: LABOR REGULATIONS

The following paragraphs regarding nondiscrimination in employment shall be included and become part of these Specifications:

- A. The Contract for work under this proposal will obligate the Contractor and Subcontractors not to discriminate in employment practices and conform to Executive Order No. 11246. The Contractor shall also comply with the Labor Standards Provisions for minimum wages and payroll certification.

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- B. Bidders must, if required, submit a compliance report concerning their employment practices and policies in order to maintain their eligibility to receive award of the Contract.
- C. Successful bidders must, if required, submit a list of all Subcontractors who will perform work on the project, and written signed statements from authorized agents of labor pools with which they will or may deal with for employees on the work, together with any information to the effect that such labor pools practices or policies are in conformity with Executive Order No. 11246; that they will affirmatively cooperate in or offer no hindrance to the recruitment, employment, and equal treatment of employment, and equal treatment of employees seeking employment and performing work under this Contract; or a certification as to when such agents or labor pools have failed or refused to furnish them, prior to award of the Contract.
- D. Contractor shall be required to submit certified payroll documentation when request to certify that wages are in compliance with the current wage rate determination.

ARTICLE 27: PRE BID CONFERENCE

There will be a **non-mandatory** pre-bid conference on **July 25, 2022 at 10:00 AM**, at the Project Site, located at 483 Weeden Street, Pawtucket Rhode Island.

END OF INFORMATION TO BIDDERS

BID PROPOSAL

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Bid Proposal - 1

BID PROPOSAL

Proposal of _____ (hereinafter "Bidder"), organized and existing under the laws of the State of _____ doing business as _____ * to Pawtucket Housing Authority (hereinafter called "OWNER"):

In compliance with our Advertisement for Bids, BIDDER hereby proposes to perform all work for the Pawtucket Housing Authority, Burns Manor Deck Improvements Project in strict accordance with the CONTRACT DOCUMENTS, within the time set forth therein, and at the prices stated below.

By submission of this BID, each BIDDER certifies, and in the case of a joint BID each party thereto certifies as to his own organization, that his 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.

BIDDER hereby agrees to commence WORK under this Contract within 10 days of issue of a Purchase Order and Notice to Proceed. The contractor shall provide estimated days required to complete the project.

BIDDER acknowledges receipt of the following ADDENDA:

ADDENDUM _____ DATED:

ADDENDUM _____ DATED:

ADDENDUM _____ DATED:

* Insert "a corporation", "a partnership", or "an individual" as applicable.

NOTE, THE BID PROPOSAL DOCUMENTS INCLUDE THE BID PROPOSAL FORM, BID FORM, LISTING OF PROPOSED SUBCONTRACTORS, AND STATEMENT OF CONTRACTORS EXPERIENCE

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BID FORM

Note: The Price for each item must be written in words and figures

ITEM NO.	DESCRIPTION	ITEM QUANTITY	UNIT MEASURE	UNIT BID PRICE (\$0.00)	AMOUNT (QxP) (\$0.00)
1.	Building 10 Abatement	1	LS	\$ _____	\$ _____
	Total Amount in words:			\$ _____	
2.	Building 20 Abatement	1	LS	\$ _____	\$ _____
	Total Amount in words:			\$ _____	
3.	Building 30-40 Abatement	1	LS	\$ _____	\$ _____
	Total Amount in words:			\$ _____	
4.	Building 50-60 Abatement	1	LS	\$ _____	\$ _____
	Total Amount in words:			\$ _____	
5.	Building 80-90 Abatement	1	LS	\$ _____	\$ _____
	Total Amount in words:			\$ _____	
6.	Building 100-110 Abatement	1	LS	\$ _____	\$ _____
	Total Amount in words:			\$ _____	
7.	Building 130-140 Abatement	1	LS	\$ _____	\$ _____
	Total Amount in words:			\$ _____	

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Bid Proposal - 3

8. Building 150-160 Abatement 1 LS \$ _____ \$ _____

Total Amount in words: \$ _____

9. Building 170 Abatement 1 LS \$ _____ \$ _____

Total Amount in words: \$ _____

10. Building 180 Abatement 1 LS \$ _____ \$ _____

Total Amount in words: \$ _____

11. Building 190-200 Abatement 1 LS \$ _____ \$ _____

Total Amount in words: \$ _____

12. Building 210-220 Abatement 1 LS \$ _____ \$ _____

Total Amount in words: \$ _____

13. Building 230 Abatement 1 LS \$ _____ \$ _____

Total Amount in words: \$ _____

TOTAL \$ _____

Words: _____

No Add Alternates for this Bid

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Bid Proposal - 4

Bidder understands that the Owner reserves the right to reject any or all bids and to waive informalities in the bidding.

The Bidder agrees that this bid shall be good and may not be withdrawn for a period of 90 Calendar Days after the scheduled closing time for receiving bids.

Upon receipt of written notice of the acceptance of this Bid, Bidder will execute the formal contract attached within 10 days.

The undersigned declares; that the only person interested in this Proposal as principals are named herein as such; that no official of the Owner and no person acting for or employed by the Owner is interested directly or indirectly in this Proposal, or in any contract which may be made under it, or in any expected profits to arise there from; that this Proposal is made in good faith, without fraud, collusion or connection with any other person bidding or refraining from bidding for the same work; that he has examined carefully the said instructions and all other documents bound herewith, and the Contract Drawings relating to the contract covered by this Proposal and hereby makes them part of this Proposal; that he has informed himself fully in regard to all conditions pertaining to the work and place where it is to be done; and that he has made his own examination and carefully checked his estimates of cost and from them makes this Proposal.

The Owner reserves the right to accept individual bid items or combinations thereof.

In compliance with the requirements of Rhode Island General Law, Section 5-65-23, my Rhode Island license number for the work to be performed by this firm as prime contractor is:

License No. _____

(Signature of authorized representative)

(Title of authorized representative)

(Seal if bid is by a corporation)

(Business Address)

END OF DOCUMENT

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Bid Proposal - 5

BID BOND FORM

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Bid Bond - 1

BID BOND

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned _____, as Principal, and _____, as Surety, are hereby held and firmly bound unto Pawtucket Housing Authority, as OWNER in the penal sum of _____ (\$ _____), for the payment of which, well and truly to be made, we hereby jointly and severally bind ourselves, successors and assigns.

Signed, this _____ day of _____ 20__.

The condition of the above obligation is such that whereas the Principal has submitted to Pawtucket Housing Authority attached hereto and hereby made a part hereof to enter into a Contract in writing, for the **PAWTUCKET HOUSING AUTHORITY GALEGO COURT ASBESTOS ABATEMENT**.

NOW, THEREFORE,

- (a) If said BID shall be rejected, or
- (b) If said BID shall be accepted and the Principal shall execute and deliver a Contract in the Form of Contract attached hereto (properly completed in accordance with said BID) and shall furnish a BOND for his faithful performance of said Contract, and for the payment of all persons performing labor or furnishing materials in connection therewith, and shall in all other respects perform the Agreement created by the acceptance of said BID.

Then this obligation shall be void, otherwise the same shall remain in force and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated.

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its BOND shall be in no way impaired or affected by any extension of the time with which the OWNER may

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accept such BID; and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, the day and year first set forth above.

Notary

Principal

and

Seal

Surety

IMPORTANT: - Surety companies executing BONDS must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the State where the project is located.

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PROPOSED SUBCONTRACTORS FORM

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Subcontractors -1

THE BIDDER SHALL STATE THE NAMES OF SUBCONTRACTORS

THAT HE PROPOSES TO USE

PROPOSED SUBCONTRACTORS

If none, write "None"

* Description of Work

Proposed Subcontractor, Name

Address

* Description of Work

Proposed Subcontractor, Name

Address

* Description of Work

Proposed Subcontractor, Name

Address

* Description of Work

Proposed Subcontractor, Name

Address

*Insert description of work and subcontractors' names as may be required.

This is to certify that all names of the above-mentioned subcontractors are submitted with full knowledge and consent of the respective parties.

The Bidder warrants that none of the proposed subcontractors have any conflict of interest as respects this Contract.

BIDDER

(FILL IN NAME)

BY

(Signature & Title)

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STATEMENT OF EXPERIENCE FORM

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Experience - 1

STATEMENT OF CONTRACTOR'S EXPERIENCE

The following experience sheet shall be completed by each Bidder, any bid submitted without a fully completed Experience sheet will be rejected by the Owner.

1. Have you ever failed to complete any work awarded to you?

If so, state where and why.

2. What similar projects has your organization completed within the last 5 years?

Class of Work	Contract Amount	When Completed	Name & Address of Engineer or Owner
(1)	(2)	(3)	(4)

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CONTRACT AGREEMENT

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Agreement - 1

AGREEMENT

THIS AGREEMENT, made this _____ day of _____, 2022 by and between The Pawtucket Housing Authority, hereinafter called "OWNER" and _____ doing business as (an individual), or (a partnership), or (a corporation) hereinafter called "CONTRACTOR."

WITNESS TO: that for and in consideration of the payments and agreements hereinafter mentioned;

1. The CONTRACTOR will commence and complete the **Pawtucket Housing Authority Galego Court Asbestos Abatement Project**.
2. The CONTRACTOR will furnish all of the material, supplies, tools, equipment, labor and other services necessary for the construction and completion of the PROJECT described herein.
3. The CONTRACTOR will commence the work required by the CONTRACT DOCUMENTS within 10 calendar days after the date of the NOTICE TO PROCEED and will complete the project within 30 calendar days unless the dates for completion are extended otherwise by the CONTRACT DOCUMENTS or scope of work is redefined by the Owner.
4. The CONTRACTOR agrees to perform all the WORK described in the CONTRACT DOCUMENTS and comply with the terms therein for the amount of \$ _____ as shown in the Bid Schedule.
5. The term "CONTRACT DOCUMENTS" means and includes the following:
 - A. REQUEST FOR BIDS
 - B. INFORMATION TO BIDDERS
 - C. BID PROPOSAL
 - D. FORM OF BID BONDS
 - E. PROPOSED SUBCONTRACTORS
 - F. STATEMENT OF EXPERIENCE
 - G. CONTRACT AGREEMENT
 - H. FORM OF PAYMENT BOND
 - I. FORM OF PERFORMANCE BOND
 - K. NOTICE OF AWARD
 - L. NOTICE TO PROCEED
 - GC GENERAL CONDITIONS
 - SC SPECIAL CONDITIONS
 - PW PREVAILING WAGE SHEET
 - HD HUD DOCUMENTS CONTAINED IN BID SPECIFICATIONS

Drawings and Technical Specifications prepared or issued by Environmental Strategies & Management, Inc. dated July 2022 and in conjunction with the Abatement Plans prepared by Environmental Management and Consulting (ECM) dated June 2022.

Addenda:

No.	Dated	2022
No.	Dated	2022

6. The OWNER will pay the CONTRACTOR in the manner and at such times as set forth in the General Conditions such amounts as required by the Contract Documents.
7. Retention from progress payments will be in accordance with the requirements stipulated in the General Conditions.

*Pawtucket Housing Authority
Galego Court Asbestos Abatement
Pawtucket, Rhode Island*

Agreement - 2

8. This Agreement shall be binding upon all parties hereto and their respective heirs, executors, administrators, successors and assigns.

IN WITNESS WHEREOF, the parties hereto have executed, or caused to be executed by their duly authorized officials, this Agreement in (Quadruplicate copies) each which shall be deemed an original on the date first above written.

OWNER: _____

BY: _____

NAME:

TITLE:

(SEAL)
WITNESS: _____

NAME: _____

TITLE: _____

CONTRACTOR: _____

BY: _____

NAME: _____

ADDRESS: _____

(SEAL)
WITNESS: _____

NAME: _____

TITLE: _____

PAYMENT BOND

*Pawtucket Housing Authority
Galego Court Asbestos Abatement
Pawtucket, Rhode Island*

LABOR AND MATERIAL PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS, that _____ (Name of Contractor)
of

(Address of Contractor)

as Principal hereinafter called Principal, and _____ of

(Name of Surety)

(Address of Surety)

_____, a Corporation, organized and existing under the laws of the State of _____, as Surety, hereinafter called Surety, are held and firmly bound unto Pawtucket Housing Authority, as Oblige, hereinafter called the Oblige, in the full penal sum of _____ dollars (\$ _____) in lawful money of the United States for the payment whereof Principal and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH THAT WHEREAS said Principal has entered into a certain written contract with said Oblige, dated the _____ day of _____, 20____, which written contract provides for the **PAWTUCKET HOUSING AUTHORITY GALEGO COURT ASBESTOS ABATEMENT** project which contract, together with all plans and specifications now made or which may hereafter be made in extension, modification of alteration thereof, are hereby referred to, incorporated in and made a part of this bond as though herein fully set forth.

NOW, THEREFORE, if the Principal shall promptly make payment to all persons, firms, subcontractors, and corporations furnishing materials for or performing labor in the prosecution of the work provided for in such contract, and any authorized extension or modification thereof, including all amounts due for materials, lubricants, oil, gasoline, coal and coke, repairs or machinery, equipment and tools, consumed or used in connection with the construction of such work, and all insurance premiums on said work and for all labor, performed in such work whether by subcontractor or otherwise, then this obligation shall be void; otherwise to remain in full force and effect.

PROVIDED, HOWEVER, that this bond is executed, pursuant to the provision of the General Statutes of the State of Rhode Island and the rights and liabilities hereunder shall be determined and limited by said sections to the same extent as if they were copies at length herein.

PROVIDED, FURTHER, that the said Surety for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to the work to be performed thereunder or the specifications accompanying the same shall in any wise affect its obligation on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the work or to the specifications.

PROVIDED, FURTHER, that no final settlement between the Oblige and the Contractor shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

*Pawtucket Housing Authority
Galego Court Asbestos Abatement
Pawtucket, Rhode Island*

IN WITNESS WHEREOF, the said principal and surety have signed and sealed this instrument this _____ day of _____, 20____.

ATTEST:

Principal

(Principal) Secretary

By

Witness as to Principal

ATTEST:

Surety

By _____
Attorney-in-Fact

(Surety) Secretary

(Seal)

Witness as to Surety

NOTE: Date of Bond must not be prior to date of Contract. If Contractor is Partnership, all partners should execute bond.

IMPORTANT: Surety companies executing Bond must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the State of Rhode Island.

*Pawtucket Housing Authority
Galego Court Asbestos Abatement
Pawtucket, Rhode Island*

PEFORMANCE BOND

*Pawtucket Housing Authority
Galego Court Asbestos Abatement
Pawtucket, Rhode Island*

PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS, that _____ (Name of Contractor)
of _____

(Address of Contractor)

as Principal hereinafter called Principal, and _____ of

(Name of Surety)

(Address of Surety)

_____, a Corporation, organized and existing under the laws of the State of
hereinafter called Surety, are held and firmly bound unto the Pawtucket Housing Authority, called the
Oblige, in the full penal sum of _____ Dollars (\$_____), in lawful
money of their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by
these presents.

THE CONDITION OF THIS OBLIGATION IS MUCH THAT WHEREAS said Principal has entered
into a certain written contract with said Oblige, dated the _____ day of _____, 20____
_____ for the **PAWTUCKET HOUSING AUTHORITY GALEGO COURT ASBESTOS
ABATEMENT** project which contract, together with all Contract Documents now made or which may
hereafter be made in extension, modification or alternation thereof, are hereby referred to, incorporated in
and made a part of this bond as though herein fully set forth.

NOW, THEREFORE, if the said Principal shall well and truly keep, perform and execute all the terms,
conditions and stipulations of said contract according to its provisions on his or its part to be kept and
performed and shall indemnify and reimburse the obligee for any loss that it may suffer through failure of
the principal to faithfully observe and perform each and every obligation and duty imposed upon the
Principal by the said contract, at the time and in the manner therein specified, then this obligation shall be
null and void, otherwise it shall remain and be in full force and effect.

PROVIDED, HOWEVER, that any alternations which may be made in the terms of said contract or in the
work done or to be done under it, or the giving by the Oblige of any extension of time for the performance
of said Contract or any other forbearance on the part of either the Oblige or the Principal one to the
others, shall not in any way released the Principal and/or the Surety, or either of them, their
representative, heirs executors, administrators, successors or assigns from liability hereunder, notice to the
Surety or Sureties of any such alteration, extension or forbearance being hereby specifically and
absolutely waived.

AND PROVIDED FURTHER THAT NO ACTION, suit or proceeding shall be had or maintained against
the Surety on this instrument unless the same be brought or instituted and process served upon the Surety
within three years from the expiration of the guaranty period provided in the contract, whether the work
be completed by the Principal, or Oblige.

*Pawtucket Housing Authority
Galego Court Asbestos Abatement
Pawtucket, Rhode Island*

IN WITNESS WHEREOF, the said principal and surety have signed and sealed this instrument this _____ day of _____, 20____.

ATTEST:

Principal

(Principal) Secretary

By

Witness as to Principal

ATTEST:

Surety

By _____
Attorney-in-Fact

(Surety) Secretary

(Seal)

Witness as to Surety

NOTE: Date of Bond must not be prior to date of Contract. If Contractor is Partnership, all partners should execute bond.

IMPORTANT: Surety companies executing Bond must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the State of Rhode Island.

*Pawtucket Housing Authority
Galego Court Asbestos Abatement
Pawtucket, Rhode Island*

NOTICE OF AWARD

TO: _____

**PROJECT DESCRIPTION: PAWTUCKET HOUSING AUTHORITY GALEGO COURT
ASBESTOS ABATEMENT PROJECT**

The OWNER has considered the BID submitted by you for the above-referenced WORK in response to its invitation for Bids.

You are hereby notified that your BID has been accepted for items in the amounts shown in the Bid Schedule.

You are required by the Information for Bidders to execute the Agreement and furnish the required CONTRACTOR'S PERFORMANCE BOND, PAYMENT BOND and certificates of insurance within ten (10) calendar days from the date of this Notice to you.

If you fail to execute said Agreement and to furnish said BONDS within ten (10) days from the date of this NOTICE, said OWNER will be entitled to consider all your rights arising out of the OWNER'S acceptance of your BID as abandoned and as a forfeiture of your BID BOND. The OWNER will be entitled to such other rights as may be granted by law.

You are required to return an acknowledged copy of this NOTICE OF AWARD to the OWNER.

Dated this day of _____, 20__.

Pawtucket Housing Authority.
OWNER

BY: _____

TITLE: _____

ACCEPTANCE OF NOTICE

Receipt of the above NOTICE OF AWARD is hereby acknowledged by this the ____ day of _____, 20__.

BY: _____

TITLE: _____

*Pawtucket Housing Authority
Galego Court Asbestos Abatement
Pawtucket, Rhode Island*

NOTICE TO PROCEED

NOTICE TO PROCEED

TO:

DATE:

PROJECT: Galego Court Asbestos
Abatement

You are hereby notified to commence WORK in accordance with the Agreement dated _____, on
or before _____, and you are to complete the work by, _____, 20__.

Pawtucket Housing Authority, Pawtucket, Rhode Island
OWNER

BY: _____

TITLE: _____

ACCEPTANCE OF NOTICE

Receipt of the above NOTICE TO PROCEED IS
Hereby acknowledged by:

Contractor's Company Name Printed

this the _____ day of _____, 20__.

By: _____

Title: _____

*Pawtucket Housing Authority
Galego Court Asbestos Abatement
Pawtucket, Rhode Island*

Notice to Proceed - 2

PREVAILING WAGE RATES

*Pawtucket Housing Authority
Galego Court Asbestos Abatement
Pawtucket, Rhode Island*

Prevailing Wage Rates - 1

PREVAILING WAGE RATES

Attention of the bidders is particularly called to the requirements as to conditions of employment to be observed and minimum wage rates to be paid under the Contract. The minimum wages for a day's work paid to craftsmen, and laborers shall be not less than the customary and prevailing rate of wages for a day's work in the locality where the work is undertaken. Such a schedule of wages has been established on a minimum hourly basis and is on file in the office of the State Department of Labor

The State of Rhode Island Department of Labor, Division of Professional Regulation General Decision Modification document current as of the bid posting date for this Project, is an integral part of the Bid Documents for use in fulfilling prevailing wage rate requirements. A copy is available on the web site of the State of Rhode Island Department of Labor & Training website.

The Department of Labor & Training Website:

<http://www.dlt.ri.gov>

END OF DOCUMENT

"General Decision Number: RI20220002 06/24/2022

Superseded General Decision Number: RI20210002

State: Rhode Island

Construction Type: Residential

Counties: Bristol, Kent, Providence and Washington Counties in Rhode Island.

RESIDENTIAL CONSTRUCTION PROJECTS (consisting of single family homes and apartments up to and including 4 stories)

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60).

<p>If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:</p>	<ul style="list-style-type: none"> . Executive Order 14026 generally applies to the contract. . The contractor must pay all covered workers at least \$15.00 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2022.
<p>If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:</p>	<ul style="list-style-type: none"> . Executive Order 13658 generally applies to the contract. . The contractor must pay all covered workers at least \$11.25 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2022.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at <https://www.dol.gov/agencies/whd/government-contracts>.

Modification Number Publication Date

0	01/07/2022
1	02/18/2022
2	02/25/2022
3	06/24/2022

ASBE0006-009 09/01/2021

	Rates	Fringes
--	-------	---------

INSULATOR - PIPE & PIPEWRAPPER

Includes application of
all insulating materials,
protective coverings,
coatings & finishes to all
types of mechanical systems.

\$ 45.00	32.89
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* ELEC0099-004 06/01/2022

	Rates	Fringes
--	-------	---------

ELECTRICIAN.....	\$ 34.40	5.94%+15.45
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FOOTNOTE: Work of a hazardous nature, or where the work
height is 30 feet or more from the floor, except when
working OSHA-approved lifts: 20% per hour additional.

ELEV0039-002 01/01/2022

	Rates	Fringes
--	-------	---------

ELEVATOR MECHANIC.....	\$ 56.91	36.885+a+b
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FOOTNOTES:

A. PAID HOLIDAYS: New Years Day; Memorial Day; Independence
Day; Labor Day; Veterans' Day; Thanksgiving Day; the Friday
after Thanksgiving Day; and Christmas Day.

B. Employer contributes 8% basic hourly rate for 5 years or
more of service of 6% basic hourly rate for 6 months to 5
years of service as vacation pay credit.

ENGI0057-004 12/01/2021

	Rates	Fringes
--	-------	---------

Power Equipment Operator

Grader and Roller.....	\$ 39.90	28.25+a
Paver.....	\$ 40.82	28.25+a

a. FOOTNOTES: Any employee who works 3 days in the week in
which a holiday falls shall be paid for the holiday.

a. PAID HOLIDAYS: New Year's Day, President's Day, Memorial
Day, July Fourth, Victory Day, Labor Day, Columbus Day,
Veterans Day, Thanksgiving Day & Christmas Day.

Hazmat work: \$2.00 per hour additional.
Tunnel/Shaft work: \$5.00 per hour additional.

ROOF0033-002 12/01/2021

	Rates	Fringes
ROOFER.....	\$ 40.40	29.06

* SURI1999-002 04/12/1999

	Rates	Fringes
BRICKLAYER.....	\$ 20.45	11.40
CARPENTER		
Including Acoustical Ceiling Installation, Drywall Hanging, & Metal Stud Framing.....	\$ 15.32	9.65
Cement Mason/Finisher.....	\$ 20.45	11.40
Drywall Finisher/Taper.....	\$ 20.55	8.50
FLOOR LAYER: Carpet.....	\$ 15.62	9.65
INSULATOR - BATT.....	\$ 19.56	9.65
LABORER		
Unskilled, Landscape, & Brick Mason Tender.....	\$ 18.47	8.10
PAINTER (Brush and Roller).....	\$ 20.55	8.50
PLASTERER.....	\$ 13.50 **	2.45
PLUMBER.....	\$ 23.96	8.95
Power Equipment Operator Backhoe.....	\$ 20.27	8.98
SPRINKLER FITTER.....	\$ 24.24	9.81

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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** Workers in this classification may be entitled to a higher minimum wage under Executive Order 14026 (\$15.00) or 13658 (\$11.25). Please see the Note at the top of the wage determination for more information.

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information

on contractor requirements and worker protections under the EO is available at <https://www.dol.gov/agencies/whd/government-contracts>.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate

that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour National Office because National Office has responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION"

HUD DOCUMENTS

*Pawtucket Housing Authority
Galego Court Asbestos Abatement
Pawtucket, Rhode Island*

HUD Documents - 1

HUD DOCUMENTS

*Pawtucket Housing Authority
Galego Court Roof Replacement
Pawtucket, Rhode Island*

HUD Documents - 1

General Contract Conditions for Small Construction/Development Contracts

U.S. Department of Housing and Urban Development
Office of Public and Indian Housing
OMB Approval No. 2577-0157 (exp. 3/31/2020)

Applicability. The following contract clauses are applicable and must be inserted into small construction/development contracts, greater than \$2,000 but not more than \$150,000.

1. Definitions

Terms used in this form are the same as defined in form HUD-5370

2. Prohibition Against Liens

The Contractor is prohibited from placing a lien on the PHA's property. This prohibition shall apply to all subcontractors at any tier and all materials suppliers. The only liens on the PHA's property shall be the Declaration of Trust or other liens approved by HUD.

3. Disputes

- (a) Except for disputes arising under the **Labor Standards** clauses, all disputes arising under or relating to this contract, including any claims for damages for the alleged breach thereof which are not disposed of by agreement, shall be resolved under this clause.
- (b) All claims by the Contractor shall be made in writing and submitted to the Contracting Officer for a written decision. A claim by the PHA against the Contractor shall be subject to a written decision by the Contracting Officer.
- (c) The Contracting Officer shall, within 30 days after receipt of the request, decide the claim or notify the Contractor of the date by which the decision will be made.
- (d) The Contracting Officer's decision shall be final unless the Contractor (1) appeals in writing to a higher level in the PHA in accordance with the PHA's policy and procedures, (2) refers the appeal to an independent mediator or arbitrator, or (3) files suit in a court of competent jurisdiction. Such appeal must be made within 30 days after receipt of the Contracting Officer's decision.
- (e) The Contractor shall proceed diligently with performance of this contract, pending final resolution of any request for relief, claim, appeal, or action arising under or relating to the contract, and comply with any decision of the Contracting Officer.

4. Default

- (a) If the Contractor refuses or fails to prosecute the work, or any separable part thereof, with the diligence that will insure its completion within the time specified in this contract, or any extension thereof, or fails to complete said work within this time, the Contracting Officer may, by written notice to the Contractor, terminate the right to proceed with the work (or separable part of the work) that has been delayed. In the event, the PHA may take over the work and complete it by contract or otherwise, and may take possession of and use any materials, equipment, and plant on the work site necessary for completing the work. The Contractor and its sureties shall be liable for any damage to the PHA resulting from the Contractor's refusal or failure to complete the work within the specified time, whether or not the Contractor's right to proceed with the work is terminated. This liability includes any increased costs incurred by the PHA in completing the work.

- (b) The Contractor's right to proceed shall not be terminated or the Contractor charged with damages under this clause if –
 - (1) The delay in completing the work arises from unforeseeable causes beyond the control and without the fault or negligence of the Contractor; and
 - (2) The Contractor, within 10 days from the beginning of such delay notifies the Contracting Officer in writing of the causes of delay. The Contracting Officer shall ascertain the facts and the extent of the delay. If, in the judgment of the Contracting Officer, the findings of Fact warrant such action, time for completing the work shall be extended by written modification to the contract. The findings of the Contracting Officer shall be reduced to a written decision which shall be subject to the provisions of the **Disputes** clause of this contract.
- (c) If, after termination of the Contractor's right to proceed, it is determined that the Contractor was not in default, or that the delay was excusable, the rights and obligation of the parties will be the same as if the termination had been for convenience of the PHA.

5. Termination for Convenience

- (a) The Contracting Officer may terminate this contract in whole, or in part, whenever the Contracting Officer determines that such termination is in the best interest of the PHA. Any such termination shall be effected by delivery to the Contractor of a Notice of Termination specifying the extent to which the performance of the work under the contract is terminated, and the date upon which such termination becomes effective.
- (b) If the performance of the work is terminated, either in whole or in part, the PHA shall be liable to the Contractor for reasonable and proper costs resulting from such termination upon the receipt by the PHA of a properly presented claim setting out in detail: (1) the total cost of the work performed to date of termination less the total amount of contract payments made to the Contractor; (2) the cost (including reasonable profit) of settling and paying claims under subcontracts and material orders for work performed and materials and supplies delivered to the site, payment for which has not been made by the PHA to the Contractor or by the Contractor to the subcontractor or supplier; (3) the cost of preserving and protecting the work already performed until the PHA or assignee takes possession thereof or assumes responsibility therefore; (4) the actual or estimated cost of legal and accounting services reasonably necessary to prepare and present the termination claim to the PHA; and (5) an amount constituting a reasonable profit on the value of the work performed by the Contractor.
- (c) The Contracting Officer will act on the Contractor's claim within days (60 days unless otherwise indicated) of receipt of the Contractor's claim.
- (d) Any disputes with regard to this clause are expressly made subject to the provisions of the Disputes clause of this contract.

6. Insurance

- (a) Before commencing work, the Contractor and each subcontractor shall furnish the PHA with certificates of insurance showing the following insurance is in force and will insure all operations under the Contract:

(1) Workers' Compensation, in accordance with state or Territorial Workers' Compensation laws.

(2) Commercial General Liability with a combined single limit for bodily injury and property damage of not less than \$ _____ [Contracting Officer insert amount] per occurrence to protect the Contractor and each subcontractor against claims for bodily injury or death and damage to the property of others. This shall cover the use of all equipment, hoists, and vehicles on the site(s) not covered by Automobile Liability under (3) below. If the Contractor has a "claims-made" policy, then the following additional requirements apply: the policy must provide a "retroactive date" which must be on or before the execution date of the Contract; and the extended reporting period may not be less than five years following the completion date of the Contract.

(3) Automobile Liability on owned and non-owned motor vehicles used on the site(s) or in connection therewith for a combined single limit for bodily injury and property damage of not less than \$ _____ [Contracting Officer insert amount] per occurrence.

(b) Before commencing work, the Contractor shall furnish the PHA with a certificate of insurance evidencing that Builder's Risk (fire and extended coverage) Insurance on all work in place and/or materials stored at the building site(s), including foundations and building equipment, is in force. The Builder's Risk Insurance shall be for the benefit of the Contractor and the PHA as their interests may appear and each shall be named in the policy or policies as an insured. The Contractor in installing equipment supplied by the PHA shall carry insurance on such equipment from the time the Contractor takes possession thereof until the Contract work is accepted by the PHA. The Builder's Risk Insurance need not be carried on excavations, piers, footings, or foundations until such time as work on the superstructure is started. It need not be carried on landscape work. Policies shall furnish coverage at all times for the full cash value of all completed construction, as well as materials in place and/or stored at the site(s), whether or not partial payment has been made by the PHA. The Contractor may terminate this insurance on buildings as of the date taken over for occupancy by the PHA. The Contractor is not required to carry Builder's Risk Insurance for modernization work which does not involve structural alterations or additions and where the PHA's existing fire and extended coverage policy can be endorsed to include such work.

(c) All insurance shall be carried with companies which are financially responsible and admitted to do business in the State in which the project is located. If any such insurance is due to expire during the construction period, the Contractor (including subcontractors, as applicable) shall not permit the coverage to lapse and shall furnish evidence of coverage to the Contracting Officer. All certificates of insurance, as evidence of coverage, shall provide that no coverage may be canceled or non-renewed by the insurance company until at least 30 days prior written notice has been given to the Contracting Officer.

7. Contract Modifications

- (a) Only the Contracting Officer has authority to modify any term or condition of this contract. Any contract modification shall be authorized in writing.
- (b) The Contracting Officer may modify the contract unilaterally (1) pursuant to a specific authorization stated in a contract clause (e.g., Changes); or (2) for administrative matters which

do not change the rights or responsibilities of the parties (e.g., change in the PHA address). All other contract modifications shall be in the form of supplemental agreements signed by the Contractor and the Contracting Officer.

- (c) When a proposed modification requires the approval of HUD prior to its issuance (e.g., a change order that exceeds the PHA's approved threshold), such modification shall not be effective until the required approval is received by the PHA.

8. Changes

- (a) The Contracting Officer may, at any time, without notice to the sureties, by written order designated or indicated to be a change order, make changes in the work within the general scope of the contract including changes:
- (1) In the specifications (including drawings and designs);
 - (2) In the method or manner of performance of the work;
 - (3) PHA-furnished facilities, equipment, materials, services, or site; or,
 - (4) Directing the acceleration in the performance of the work.
- (b) Any other written order or oral order (which, as used in this paragraph (b), includes direction, instruction, interpretation, or determination) from the Contracting Officer that causes a change shall be treated as a change order under this clause; provided, that the Contractor gives the Contracting Officer written notice stating (1) the date, circumstances and source of the order and (2) that the Contractor regards the order as a change order.
- (c) Except as provided in this clause, no order, statement or conduct of the Contracting Officer shall be treated as a change under this clause or entitle the Contractor to an equitable adjustment.
- (d) If any change under this clause causes an increase or decrease in the Contractor's cost of, or the time required for the performance of any part of the work under this contract, whether or not changed by any such order, the Contracting Officer shall make an equitable adjustment and modify the contract in writing. However, except for a adjustment based on defective specifications, no proposal for any change under paragraph (b) above shall be allowed for any costs incurred more than 20 days (5 days for oral orders) before the Contractor gives written notice as required. In the case of defective specifications for which the PHA is responsible, the equitable adjustment shall include any increased cost reasonably incurred by the Contractor in attempting to comply with the defective specifications.
- (e) The Contractor must assert its right to an adjustment under this clause within 30 days after (1) receipt of a written change order under paragraph (a) of this clause, or (2) the furnishing of a written notice under paragraph (b) of this clause, by submitting a written statement describing the general nature and the amount of the proposal. If the facts justify it, the Contracting Officer may extend the period for submission. The proposal may be included in the notice required under paragraph (b) above. No proposal by the Contractor for an equitable adjustment shall be allowed if asserted after final payment under this contract.
- (f) The Contractor's written proposal for equitable adjustment shall be submitted in the form of a lump sum proposal supported with an itemized breakdown of all increases and decreases in the contract in at least the following details:
- (1) Direct Costs. Materials (list individual items, the quantity and unit cost of each, and the aggregate cost); Transportation and delivery costs associated with materials; Labor

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- qualifications for each; and the name and location of the person(s) taking applications for each of the positions; and the anticipated date the work shall begin.
- (d) The contractor agrees to include this section 3 clause in every subcontract subject to compliance with regulations in 24 CFR Part 135, and agrees to take appropriate action, as provided in an applicable provision of the subcontract or in this section 3 clause, upon a finding that the subcontractor is in violation of the regulations in 24 CFR Part 135. The contractor will not subcontract with any subcontractor where the contractor has notice or knowledge that the subcontractor has been found in violation of the regulations in 24 CFR Part 135.
- (e) The contractor will certify that any vacant employment positions, including training positions, that are filled (1) after the contractor is selected but before the contract is executed, and (2) with persons other than those to whom the regulations of 24 CFR Part 135 require employment opportunities to be directed, were not filled to circumvent the contractor's obligations under 24 CFR Part 135.
- (f) Noncompliance with HUD's regulations in 24 CFR Part 135 may result in sanctions, termination of this contract for default, and debarment or suspension from future HUD assisted contracts.

14. Labor Standards - Davis-Bacon and Related Acts

(a) Minimum Wages.

(1) All laborers and mechanics employed under this contract in the construction or development of the project(s) involved will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR Part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the Contractor and such laborers and mechanics. Contributions made or costs reasonably anticipated for bona fide fringe benefits under Section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of 29 CFR 5.5(a)(1)(iv); also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the regular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits in the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein; provided, that the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under 29 CFR 5.5(a)(1)(ii) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the Contractor and its subcontractors at the site of the work in

a prominent and accessible place where it can be easily seen by the workers.

- (2) (i) Any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. HUD shall approve an additional classification and wage rate and fringe benefits therefor only when all the following criteria have been met:
- (a) The work to be performed by the classification requested is not performed by a classification in the wage determination; and
 - (b) The classification is utilized in the area by the construction industry; and
 - (c) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.
- (ii) If the Contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and HUD or its designee agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action shall be sent by HUD or its designee to the Administrator of the Wage and Hour Division, Employee Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise HUD or its designee or will notify HUD or its designee within the 30-day period that additional time is necessary.
- (iii) In the event the Contractor, the laborers or mechanics to be employed in the classification or their representatives, and HUD or its designee do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), HUD or its designee shall refer the questions, including the views of all interested parties and the recommendation of HUD or its designee, to the Administrator of the Wage and Hour Division for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise HUD or its designee or will notify HUD or its designee within the 30-day period that additional time is necessary.
- (iv) The wage rate (including fringe benefits where appropriate) determined pursuant to subparagraphs (a)(2)(ii) or (iii) of this clause shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.
- (3) Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the Contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.
- (4) If the Contractor does not make payments to a trustee or other third person, the Contractor may consider as part

of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program; **provided**, that the Secretary of Labor has found, upon the written request of the Contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the Contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

- (b) **Withholding of Funds.** HUD or its designee shall, upon its own action or upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the Contractor under this contract or any other Federal contract with the same prime Contractor, or any other Federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime Contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the Contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working in the construction or development of the project, all or part of the wages required by the contract, HUD or its designee may, after written notice to the Contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased. HUD or its designee may, after written notice to the Contractor, disburse such amounts withheld for and on account of the Contractor or subcontractor to the respective employees to whom they are due.

(c) **Payrolls and Basic Records.**

- (1) Payrolls and basic records relating thereto shall be maintained by the Contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working in the construction or development of the project. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made, and actual wages paid. Whenever the Secretary of Labor has found, under 29 CFR 5.5(a)(1)(iv), that the wages of any laborer or mechanic include the amount of costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-Bacon Act, the Contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of

the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

- (2) (i) The Contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the Contracting Officer for transmission to HUD or its designee. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under subparagraph (c)(1) of this clause. This information may be submitted in any form desired. Optional Form WH-347 (Federal Stock Number 029-005-00014-1) is available for this purpose and may be purchased from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. The prime Contractor is responsible for the submission of copies of payrolls by all subcontractors. (Approved by the Office of Management and Budget under OMB Control Number 1214-0149.)
- (ii) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:
- (A) That the payroll for the payroll period contains the information required to be maintained under paragraph (c)(1) of this clause and that such information is correct and complete;
- (B) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in 29 CFR Part 3; and
- (C) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.
- (iii) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirements for submission of the "Statement of Compliance" required by subparagraph (c)(2)(ii) of this clause.
- (iv) The falsification of any of the above certifications may subject the Contractor or subcontractor to civil or criminal prosecution under Section 1001 of Title 18 and Section 3729 of Title 31 of the United States Code.
- (3) The Contractor or subcontractor shall make the records required under subparagraph (c)(1) available for inspection, copying, or transcription by authorized representatives of HUD or its designee, the Contracting Officer, or the Department of Labor and shall permit such representatives to interview employees during working hours on the job. If the Contractor or subcontractor fails to submit the required records or to make them available, HUD or its designee may, after written notice to the Contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

- (d) Apprentices. Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S.

Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services (OATELS), or with a State Apprenticeship Agency recognized by OATELS, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by OATELS or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice.

The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the Contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated in this paragraph, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the Contractor's or subcontractor's registered program shall be observed. Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator of the Wage and Hour Division determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination. In the event OATELS, or a State Apprenticeship Agency recognized by OATELS, withdraws approval of an apprenticeship program, the Contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

- (e) Trainees. Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration. The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate

specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed in the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate in the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate in the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate in the wage determination for the work actually performed. In the event the Employment and Training Administration withdraws approval of a training program, the Contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

- (f) Equal Employment Opportunity. The utilization of apprentices, trainees, and journeymen under this clause shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR Part 30.
- (g) Compliance with Copeland Act Requirements. The Contractor shall comply with the requirements of 29 CFR Part 3, which are hereby incorporated by reference in this contract.
- (h) Contract Termination; Debarment. A breach of the labor standards clauses in this contract may be grounds for termination of the contract and for debarment as a Contractor and a subcontractor as provided in 29 CFR 5.12.
- (i) Compliance with Davis-Bacon and related Act Requirements. All rulings and interpretations of the Davis-Bacon and related Acts contained in 29 CFR Parts 1, 3, and 5 are herein incorporated by reference in this contract.
- (j) Disputes Concerning Labor Standards. Disputes arising out of the labor standards provisions of this clause shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR Parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the Contractor (or any of its subcontractors) and the PHA, HUD, the U.S. Department of Labor, or the employees or their representatives.
- (k) Certification of Eligibility.
- (1) By entering into this contract, the Contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the Contractor's firm is a person or firm ineligible to be awarded contracts by the United States Government by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).
 - (2) No part of this contract shall be subcontracted to any person or firm ineligible for award of a United States Government

contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

(3) The penalty for making false statements is prescribed in the U. S. Criminal Code, 18 U.S.C. 1001.

(l) Subcontracts. The Contractor or subcontractor shall insert in any subcontracts all the provisions contained in this clause, and such other clauses as HUD or its designee may by appropriate instructions require, and also a clause requiring the subcontractors to include these provisions in any lower tier subcontracts. The prime Contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all these provisions.

(m) Non-Federal Prevailing Wage Rates. Any prevailing wage rate (including basic hourly rate and any fringe benefits), determined under State law to be prevailing, with respect to any employee in any trade or position employed under the contract, is inapplicable to the contract and shall not be enforced against the Contractor or any subcontractor, with respect to employees engaged under the contract whenever such non-Federal prevailing wage rate exceeds:

- (i) the applicable wage rate determined by the Secretary of Labor pursuant to the Davis-Bacon Act (40 U.S.C. 3141 et seq.) to be prevailing in the locality with respect to such trade;
- (ii) an applicable apprentice wage rate based thereon specified in an apprenticeship program registered with the U.S. Department of Labor (DOL) or a DOL-recognized State Apprenticeship Agency; or
- (iii) an applicable trainee wage rate based thereon specified in a DOL-certified trainee program.

Previous Participation Certification

U.S. Department of Housing
and Urban Development
Office of Housing/Federal Housing Commissioner

U.S. Department of Agriculture
Farmers Home Administration

OMB Approval No. 2502-0118
(exp11/30/2012)

Part I To be completed by Principals of Multifamily Projects. See Instructions Reason for Submitting Certification

For HUD HQ/FmHA use only

1. Agency Name and City where the application is filed

2. Project Name, Project Number, City and Zip Code contained in the application

3. Loan or Contract Amount

4. Number of Units or Beds

5. Section of Act

6. Type of Project (check one)

☐ Existing

☐ Rehabilitation

☐ Proposed (New)

List of UI dropped Principal Participants and attach organization chart for all organizations.

7. Names and Addresses of All Known Principals and Affiliates (people, businesses & organizations) proposing to participate in the project described above. (list names alphabetically; last, first, middle initial)

8. Role of Each
Principal in Project

9. Expected % Owner
ship Interest in Project

10. Social Security or IRS
Employer Number

Certifications: I (meaning the individual who signs as well as the corporations, partnerships or other parties listed above who certify) hereby apply to HUD or USDA FmHA, as the case maybe, for approval to participate as a principal in the role and project listed above based upon my following previous participation record and this Certification. Verify that neither you nor any of your principals or affiliates have ever been found to be in noncompliance with any applicable fair housing and civil rights requirements in 24 CFR 5.105 (a). If you or any of your principals or affiliates have been found to be in noncompliance with any such requirements, attach a signed statement explaining the relevant facts, circumstances, and resolution, if any.

I certify that all the statements made by me are true, complete and correct to the best of my knowledge and belief and are made in good faith, including the data contained in Schedule A and Exhibits signed by me and attached to this form. **Y ctplopi** < HUD will prosecute false claims and statements. Conviction may result in criminal and/or civil penalties. (18 U.S.C. 1001, 1010, 1012; 31U.S.C. 3729, 3802)

I further certify that:

1. Schedule A contains a listing of every assisted or

insured project of HUD, USDA FmHA and State and local government housing finance agencies in which I have been or am now a principal.

2. For the period beginning 10 years prior to the date of this certification, and except as shown by me on the certification.

a. No mortgage on a project listed by me has ever been in default, assigned to the Government or foreclosed, nor has mortgage relief by the mortgagee been given;

b. "Ij"ave not experienced defaults or noncompliances under any Conventional Contract or Turnkey Contract of Sale in connection with a public housing project;

c. To the best of my knowledge, there are no unresolved findings raised as a result of HUD audits, management reviews or other Governmental investigations concerning me or my projects;

d. There has not been a suspension or termination of payments under any HUD assistance contract in which I have had a legal or beneficial interest;

e. I have not been convicted of a felony and am not presently, to my knowledge, the subject of a

complaint or indictment charging a felony. (A felony is defined as any offense punishable by imprisonment for a term exceeding one year, but does not include any offense classified as a misdemeanor under the laws of a State and punishable by imprisonment of two years or less);

f. "I have not been suspended, debarred or otherwise restricted by any Department or Agency of the Federal Government or of a State Government from doing business with such Department or Agency.

g. I have not defaulted on an obligation covered by a surety or performance bond and have not been the subject of a claim under an employee fidelity bond.

3. All the names of the parties, known to me to be principals in this project(s) in which I propose to participate, are listed above.

4. I am not a HUD/FmHA employee or a member of a HUD/FmHA employee's immediate household as defined "in Standards of Ethical Conduct" for Employees of the Executive Branch in 5C.F.R. Part 2635 (57 FR 35006) and HUD's Standard of Conduct in 24 C.F.R. Part 2 and USDA's Standard of Conduct in 7 C.F.R. Part 2 Subpart B.

5. I am not a principal participant in an assisted or insured project as of this date on which construction has stopped for a period in excess of 20 days or which has been substantially completed for more than 90 days and documents for closing, including final cost certification have not been filed with HUD or FmHA

6. To my knowledge I have not been found by HUD or FmHA to be in noncompliance with any applicable fair housing and civil rights requirements in 24 CFR 5.107(a).

7. I am not a Member of Congress or a Resident Commissioner nor otherwise prohibited or limited by law from contracting with the Government of the United States of America.

8. "Statements above (if any) to which I cannot certify have been deleted by striking through the words with a pen. I have initialed each deletion (if any) and have attached a true and accurate signed statement (if applicable) to explain the facts and circumstances which I think helps to qualify me as a responsible principal for participation in this project.

Typed or Printed Name of Principal	Signature of Principal	Certification Date (mm/dd/yyyy)	Area Code and Telephone No.

This form was prepared by (Please print name)

Area Code and Telephone No.

Schedule A: List of Previous Projects and Section 8 Contracts. By my name below is the complete list of my previous projects and my participation history as a principal; in Multifamily Housing programs of HUD/FmHA, State, and Local Housing Finance Agencies. **Note:** Read and follow the instruction sheet carefully. Abbreviate where possible. Make full disclosure. Add extra sheets if you need more space. Double check for accuracy. If you have no previous projects write, by your name, **"No previous participation, First Experience."**

1. List each Principal's Name (list in alphabetical order, last name first)	2. List Previous Projects (give the I.D. number, project name, city location, & government agency involved if other than HUD)	3. List Principals' Role(s) (indicate dates participated, and if fee or identity of interest participant)	4. Status of Loan (current, defaulted, assigned, or foreclosed)	5. Was Project ever in Default, during your participation? If "Yes," explain			6. Last Mgmt. and/or Physical Inspc'tn Rating and Date
				Yes	No		

Part II – For HUD Internal Processing Only

Received and checked by me for accuracy and completeness; recommend approval or transferral to Headquarters as checked below:

Date (mm/dd/yyyy)	Telephone Number and Area Code	<input type="checkbox"/> A. No adverse information; form HUD-2530 approval is recommended.	<input type="checkbox"/> C. Disclosure or Certification problem
Staff	Processing and Control	<input type="checkbox"/> B. Name match in system	<input type="checkbox"/> D. Other, our memorandum is attached.
Supervisor		Director of Housing / Director, Multifamily Division	Approved <input type="checkbox"/> Yes <input type="checkbox"/> No
			Date (mm/dd/yyyy)

Instructions for Completing the Previous Participation Certificate, form HUD-2530

Carefully read these instructions and the applicable regulations. A copy of those regulations published at 24 C.F.R. 200.210 to 200.245 can be obtained from the Multifamily Housing Representative at any HUD Office. Type or print neatly in ink when filling out this form. Mark answers in all blocks of the form. If the form is not filled completely, it will delay approval of your application.

Attach extra sheets as you need them. Be sure to indicate "Continued on Attachments" wherever appropriate. Sign each additional page that you attach if it refers to you or your record. If you have many projects to list (20 or more) and expect to be applying frequently for participation in HUD projects, you should consider filing a Master List. See Master List instructions below under "Instructions for Completing Schedule A."

Carefully read the certification before you sign it. Any questions regarding the form or how to complete it can be answered by your HUD Office Multifamily Housing Representative.

Purpose: This form provides HUD with a certified report of all previous participation in HUD multifamily housing projects by those parties making application. The information requested in this form is used by HUD to determine if you meet the standards established to ensure that all principal participants in HUD projects will honor their legal, financial and contractual obligations and are acceptable risks from the underwriting standpoint of an insurer, lender or governmental agency. HUD requires that you certify your record of previous participation in HUD/USDA-FmHA, State and Local Housing Finance Agency projects by completing and signing this form, before your project application or participation can be approved.

HUD approval of your certification is a necessary precondition for your participation in the project and in the capacity that you propose. If you do not file this certification, do not furnish the information requested accurately, or do not meet established standards, HUD will not approve your certification.

Note that approval of your certification does not obligate HUD to approve your project application, and it does not satisfy all other HUD program requirements relative to your qualifications.

Who Must Sign and File Form HUD-2530:

Form HUD-2530 must be completed and signed by all parties applying to become principal participants in HUD multifamily housing projects, including those who have no previous participation. The form must be signed and filed by all principals and their affiliates who propose participating in the HUD project. Use a separate form for each role in the project unless there is an identity of interest.

Principals include all individuals, joint ventures, partnerships, corporations, trusts, non-profit organizations, any other public or private entity, that will participate in the proposed project as a sponsor, owner, prime contractor, turnkey developer, managing agent, nursing home administrator or operator, packager, or consultant. Architects and attorneys who have any interest in the project other than an arms length fee arrangement for professional services are also considered principals by HUD.

In the case of partnerships, all general partners regardless of their percentage interest and limited partners having a 25 percent or more interest in the partnership are considered principals. In the case of public or private corporations or governmental entities, principals include the president, vice president, secretary, treasurer and all other executive officers who are directly responsible to the board of directors, or any equivalent governing body, as well as all directors and each stockholder having a 10 percent or more interest in the corporation.

Affiliates are defined as any person or business concern that directly or indirectly controls the policy of a principal or has the power to do so. A holding or parent corporation would be an example of an affiliate if one of its subsidiaries is a principal.

Exception for Corporations – All principals and affiliates must personally sign the certificate except in the following situation. When a corporation is a principal, all of its officers, directors, trustees and stockholders with 10 percent or more of the common (voting) stock need not sign personally if they all have the same record to report. The officer who is authorized to sign for the corporation or agency will list the names and title of those who elect not to sign. However, any person who has a record of participation in HUD projects that is separate from that of his or her organization must report that activity on this form and sign his or her name. The objective is full disclosure.

Exemptions – The names of the following parties do not need to be listed on form HUD-2530: Public Housing Agencies, tenants, owners of less than five condominium or cooperative units and all others whose interests were acquired by inheritance or court order.

Where and When Form HUD-2530 Must Be Filed: The original of this form must be submitted to the HUD Office where your project application will be processed at the same time you file your initial project application. This form must be filed with applications for projects, or when otherwise required in the situations listed below:

- Projects to be financed with mortgages insured under the National Housing Act (FHA).
- Projects to be financed according to Section 202 of the Housing Act of 1959 (Elderly and Handicapped).
- Projects in which 20 percent or more of the units are to receive a subsidy as described in 24 C.F.R. 200.213.
- Purchase of a project subject to a mortgage insured or held by the Secretary of HUD.
- Purchase of a Secretary-owned project.
- Proposed substitution or addition of a principal, or principal participation in a different capacity from that previously approved for the same project.
- Proposed acquisition by an existing limited partner of an additional interest in a project resulting in a total interest of 25 percent or more, or proposed acquisition by a corporate stockholder of an additional interest in a project resulting in a total interest of 10 percent or more.
- Projects with U.S.D.A., Farmers Home Administration, or with state or local government housing finance agencies that include rental assistance under Section 8 of the Housing Act of 1937. For projects of this type, form HUD-2530 should be filed with the appropriate applications directly to those agencies.

Review of Adverse Determination: If approval of your participation in a HUD project is denied, withheld, or conditionally granted on the basis of your record of previous participation, you will be notified by the HUD Office. You may request reconsideration by the HUD Review Committee. Alternatively, you may request a hearing before a Hearing Officer. Either request must be made in writing within 30 days from your receipt of the notice of determination.

If you do request reconsideration by the Review Committee and the reconsideration results in an adverse determination, you may then request a hearing before a Hearing Officer. The Hearing Officer will issue a report to the Review Committee. You will be notified of the final ruling by certified mail.

Specific Line Instructions:

Reason for submitting this Certification: e.g., refinance, management, change in ownership, transfer of physical assets, etc.

Block 1: Fill in the name of the agency to which you are applying. For example: HUD Office, Farmers Home Administration District office, or the name of a State or local housing finance agency. Below that, fill in the name of the city where the office is located.

Block 2: Fill in the name of the project, such as "Greenwood Apts." If the name has not yet been selected, write "Name unknown." Below that, enter the HUD contract or project identification number, the Farmers Home Administration project number, or the State or local housing finance agency project or contract number. Include **all** project or contract identification numbers that are relevant to the project. Also enter the name of the city in which the project is located, and the ZIP Code of the site location.

Block 3: Fill in the dollar amount requested in the proposed mortgage, or the annual amount of rental assistance requested.

Block 4: Fill in the number of apartment units proposed, such as "40 units." For hospital projects or nursing homes, fill in the number of beds proposed, such as "100 beds."

Block 5: Fill in the section of the Housing Act under which the application is filed.

Block 7: Definitions of all those who are considered principals and affiliates are given above in the section titled "Who Must Sign and File...."

Block 8: Beside the name of each principal, fill in the role that each will perform. The following are possible roles that the principals may perform: Sponsor, Owner, Prime Contractor, Turnkey Developer, Managing Agent, Packager, Consultant, General Partner, Limited Partner (include percentage), Executive Officer, Director, Trustee, Major Stockholder, or Nursing Home Administrator. Beside the name of each affiliate, write the name of the person or firm of affiliation, such as "Affiliate of Smith Construction Co."

Block 9: Fill in the percentage of ownership in the proposed project that each principal is expected to have. Also specify if the participant is a general or limited partner. Beside the name of those parties who will not be owners, write "None."

Block 10: Fill in the Social Security Number or IRS employer number of every party listed, including affiliates.

Instructions for Completing Schedule A:

Be sure that Schedule A is filled-in completely, accurately and the certification is properly dated and signed, because it will serve as a legal record of your previous experience. All Multifamily Housing projects involving HUD/FmHA, and State and local Housing Finance Agencies in which you have previously participated **must** be listed. Applicants are reminded that previous participation pertains to the individual principal within an entity as well as the entity itself. A newly formed company may not have previous participation, but the principals within the company may have had extensive participation and disclosure of that activity is required. To avoid duplication of disclosure, list the project and then the entities or individuals involved in that project. You may use the name or a number code to denote the entity or individual that participated. The number code can then be used in column 3 to denote role.

Column 2 List the project or contract identification of each previous project. **All previous projects must be included or your certification cannot be processed.** Include the name of all projects, the cities in which they are located and the government agency (HUD, USDA-FmHA or State or local housing finance agency) that was involved. At the end of your list of projects, draw a straight line across the page to separate your record of projects from that of others signing this form who have a different record to report.

Column 3 List the role(s) of your participation, dates participated, and if fee or identity of interest with owners.

Column 4 Indicate the current status of the loan. Except for current loans, the date associated with the status is required. Loans under a workout arrangement are considered assigned. An explanation of the circumstances surrounding the status is required for all non-current loans.

Column 5 Explain any project defaults during your participation.

Column 6 Enter the latest Management and/or Physical Inspection Review rating. If either of the ratings are below average, the report issued by HUD is required to be submitted along with the applicant's explanation of the circumstances surrounding the rating.

No Previous Record: Even if you have never participated in a HUD project before, you must complete form HUD-2530. If you have no record of previous projects to list, fill in your name in column 1 of Schedule A, and write across the form by your name – "No previous participation, first experience."

Master List System: If you expect to file this form frequently and you have a long list of previous projects to report on Schedule A, you should consider filing a Master List. By doing so, you will avoid having to list all your previous projects each time you file a new application.

To make a Master List, use form HUD-2530. On page 1, in block 1, enter (in capital letters) the words "**Master List.**" In blocks 2 through 6 enter in "N.A." meaning Not Applicable. Complete blocks 7 through 10.

In the box below the statement of certification, fill in the names of all parties who wish to file a Master List together (type or print neatly). Beside each name, every party must sign the form. In the box titled "Proposed Role," fill in "N.A." Also, fill in the date you sign the form

and provide a telephone number where you can be reached during the day. No determinations will be made on these certificates.

File one copy of the Master List with each HUD Office where you do business and mail one copy to the following address:

**HUD-2530 Master List
Participation and Compliance
Division – Housing
U.S. Department of Housing and
Urban Development
451 Seventh Street, S.W.
Washington, D.C. 20410**

Once you have filed a Master List, you do not need to complete Schedule A when you submit form HUD-2530. Instead, write the name of the participant in column 1 of Schedule A and beside that write "See Master List on file." Also give the date that appears on the Master List that you submitted. Below that, report all changes and additions that have occurred since that date. Be sure to include any mortgage defaults, assignments or foreclosures not listed previously.

If you have withdrawn from a project since the date the Master List was filed, be sure to name the project. Give the project identification number, the month and year your participation began and/or ended.

Certification:

After you have completed all other parts of form HUD-2530, including Schedule A, read the Certification carefully. In the box below the statement of certification, fill in the name of all principals and affiliates (type or print neatly). Beside the name of each principal and affiliate, each party must sign the form, with the exception in some cases of individuals associated with a corporation (see "Exception for Corporations" in the section of the instructions titled "Who Must Sign and File form

HUD-2530"). Beside each signature, fill in the role of each party (the same as shown in block 8). In addition, each person who signs the form should fill in the date that he or she signs, as well as providing a telephone number where he or she can be reached during business hours. By providing a telephone number where you can be reached, you will help to prevent any possible delay caused by mailing and processing time in the event HUD has any questions.

If you cannot certify and sign the certification as it is printed because some statements do not correctly describe your record, use a pen and strike through those parts that differ with your record, then sign and certify to that remaining part which does describe you or your record.

Attach a signed letter, note or an explanation of the items you have struck out on the certification and report the facts of your correct record. Item A(2)(e) relates to felony convictions within the past 10 years. If you have been convicted of a felony within 10 years, strike out all of A(2)(e) on the certificate and attach your statement giving your explanation. A felony conviction will not necessarily cause your participation to be disapproved unless there is a criminal record or other evidence that your previous conduct or method of doing business has been such that your participation in the project would make it an unacceptable risk from the underwriting standpoint of an insurer, lender or governmental agency.

The Department of Housing and Urban Development (HUD) is authorized to collect this information by law (42 U.S.C. 3535(d) and 24 C.F.R. 200.217) and by regulation at 24 CFR 200.210. This information is needed so that principals applying to participate in multifamily programs can become HUD-approved participants. The information you provide will enable HUD to evaluate your record with respect to established standards of performance, responsibility and eligibility. Without prior approval, a principal may not participate in a proposed or existing multifamily project. HUD uses this information to evaluate whether or not principals pose an unsatisfactory underwriting risk. The information is used to evaluate the potential principals and approve only individuals and organizations who will honor their legal, financial and contractual obligations.

Privacy Act Statement: The Housing and Community Development Act of 1987, 42 U.S.C. 3543 requires persons applying for a Federally-insured or guaranteed loan to furnish his/her Social Security Number (SSN). HUD must have your SSN for identification of your records. HUD may use your SSN for automated processing of your records and to make requests for information about you and your previous records with other public agencies and private sector sources. HUD may disclose certain information to Federal, State and local agencies when relevant to civil, criminal, or regulatory investigations and prosecutions. It will not be otherwise disclosed or released outside of HUD, except as required and permitted by law. You must provide all of the information requested in this application, including your SSN.

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. This agency may not collect this information, and you are not required to complete this form, unless it displays a currently valid OMB control number.

A response is mandatory. Failure to provide any of the information will result in your disapproval for participation in this HUD program.

**U.S. Department of Housing and
Urban Development**
Office of Public and Indian Housing

**Instructions to Bidders for Contracts
Public and Indian Housing Programs**

Instructions to Bidders for Contracts

Public and Indian Housing Programs

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1. Bid Preparation and Submission

(a) Bidders are expected to examine the specifications, drawings, all instructions, and, if applicable, the construction site (see also the contract clause entitled **Site Investigation and Conditions Affecting the Work** of the *General Conditions of the Contract for Construction*). Failure to do so will be at the bidders' risk.

(b) All bids must be submitted on the forms provided by the Public Housing Agency/Indian Housing Authority (PHA/IHA). Bidders shall furnish all the information required by the solicitation. Bids must be signed and the bidder's name typed or printed on the bid sheet and each continuation sheet which requires the entry of information by the bidder. Erasures or other changes must be initialed by the person signing the bid. Bids signed by an agent shall be accompanied by evidence of that agent's authority. (Bidders should retain a copy of their bid for their records.)

(c) Bidders must submit as part of their bid a completed form HUD-5369-A, "Representations, Certifications, and Other Statements of Bidders."

(d) All bid documents shall be sealed in an envelope which shall be clearly marked with the words "Bid Documents," the Invitation for Bids (IFB) number, any project or other identifying number, the bidder's name, and the date and time for receipt of bids.

(e) If this solicitation requires bidding on all items, failure to do so will disqualify the bid. If bidding on all items is not required, bidders should insert the words "No Bid" in the space provided for any item on which no price is submitted.

(f) Unless expressly authorized elsewhere in this solicitation, alternate bids will not be considered.

(g) Unless expressly authorized elsewhere in this solicitation, bids submitted by telegraph or facsimile (fax) machines will not be considered.

(h) If the proposed contract is for a Mutual Help project (as described in 24 CFR Part 905, Subpart E) that involves Mutual Help contributions of work, material, or equipment, supplemental information regarding the bid advertisement is provided as an attachment to this solicitation.

2. Explanations and Interpretations to Prospective Bidders

(a) Any prospective bidder desiring an explanation or interpretation of the solicitation, specifications, drawings, etc., must request it at least 7 days before the scheduled time for bid opening. Requests may be oral or written. Oral requests must be confirmed in writing. The only oral clarifications that will be provided will be those clearly related to solicitation procedures, i.e., not substantive technical information. No other oral explanation or interpretation will be provided. Any information given a prospective bidder concerning this solicitation will be furnished promptly to all other prospective bidders as a written amendment to the solicitation, if that information is necessary in submitting bids, or if the lack of it would be prejudicial to other prospective bidders.

(b) Any information obtained by, or provided to, a bidder other than by formal amendment to the solicitation shall not constitute a change to the solicitation.

3. Amendments to Invitations for Bids

(a) If this solicitation is amended, then all terms and conditions which are not modified remain unchanged.

(b) Bidders shall acknowledge receipt of any amendment to this solicitation (1) by signing and returning the amendment, (2) by identifying the amendment number and date on the bid form, or (3) by letter, telegram, or facsimile, if those methods are authorized in the solicitation. The PHA/IHA must receive acknowledgement by the time and at the place specified for receipt of bids. Bids which fail to acknowledge the bidder's receipt of any amendment will result in the rejection of the bid if the amendment(s) contained information which substantively changed the PHA's/IHA's requirements.

(c) Amendments will be on file in the offices of the PHA/IHA and the Architect at least 7 days before bid opening.

4. Responsibility of Prospective Contractor

(a) The PHA/IHA will award contracts only to responsible prospective contractors who have the ability to perform successfully under the terms and conditions of the proposed contract. In determining the responsibility of a bidder, the PHA/IHA will consider such matters as the bidder's:

- (1) Integrity;
- (2) Compliance with public policy;
- (3) Record of past performance; and
- (4) Financial and technical resources (including construction and technical equipment).

(b) Before a bid is considered for award, the bidder may be requested by the PHA/IHA to submit a statement or other documentation regarding any of the items in paragraph (a) above. Failure by the bidder to provide such additional information shall render the bidder nonresponsible and ineligible for award.

5. Late Submissions, Modifications, and Withdrawal of Bids

(a) Any bid received at the place designated in the solicitation after the exact time specified for receipt will not be considered unless it is received before award is made and it:

(1) Was sent by registered or certified mail not later than the fifth calendar day before the date specified for receipt of offers (e.g., an offer submitted in response to a solicitation requiring receipt of offers by the 20th of the month must have been mailed by the 15th);

(2) Was sent by mail, or if authorized by the solicitation, was sent by telegram or via facsimile, and it is determined by the PHA/IHA that the late receipt was due solely to mishandling by the PHA/IHA after receipt at the PHA/IHA; or

(3) Was sent by U.S. Postal Service Express Mail Next Day Service - Post Office to Addressee, not later than 5:00 p.m. at the place of mailing two working days prior to the date specified for receipt of proposals. The term "working days" excludes weekends and observed holidays.

(b) Any modification or withdrawal of a bid is subject to the same conditions as in paragraph (a) of this provision.

(c) The only acceptable evidence to establish the date of mailing of a late bid, modification, or withdrawal sent either by registered or certified mail is the U.S. or Canadian Postal Service postmark both on the envelope or wrapper and on the original receipt from the U.S. or Canadian Postal Service. Both postmarks must show a legible date or the bid, modification, or withdrawal shall be processed as if mailed late. "Postmark" means a printed, stamped, or otherwise placed impression (exclusive of a postage meter machine impression) that is readily identifiable without further action as having been supplied and affixed by employees of the U.S. or Canadian Postal Service on the date of mailing. Therefore, bidders should request the postal clerk to place a hand cancellation bull's-eye postmark on both the receipt and the envelope or wrapper.

(d) The only acceptable evidence to establish the time of receipt at the PHA/IHA is the time/date stamp of PHA/IHA on the proposal wrapper or other documentary evidence of receipt maintained by the PHA/IHA.

(e) The only acceptable evidence to establish the date of mailing of a late bid, modification, or withdrawal sent by Express Mail Next Day Service-Post Office to Addressee is the date entered by the post office receiving clerk on the "Express Mail Next Day Service-Post Office to Addressee" label and the postmark on both the envelope or wrapper and on the original receipt from the U.S. Postal Service. "Postmark" has the same meaning as defined in paragraph (c) of this provision, excluding postmarks of the Canadian Postal Service. Therefore, bidders should request the postal clerk to place a legible hand cancellation bull's eye postmark on both the receipt and Failure by a bidder to acknowledge receipt of the envelope or wrapper.

(f) Notwithstanding paragraph (a) of this provision, a late modification of an otherwise successful bid that makes its terms more favorable to the PHA/IHA will be considered at any time it is received and may be accepted.

(g) Bids may be withdrawn by written notice, or if authorized by this solicitation, by telegram (including mailgram) or facsimile machine transmission received at any time before the exact time set for opening of bids; provided that written confirmation of telegraphic or facsimile withdrawals over the signature of the bidder is mailed and postmarked prior to the specified bid opening time. A bid may be withdrawn in person by a bidder or its authorized representative if, before the exact time set for opening of bids, the identity of the person requesting withdrawal is established and the person signs a receipt for the bid.

6. Bid Opening

All bids received by the date and time of receipt specified in the solicitation will be publicly opened and read. The time and place of opening will be as specified in the solicitation. Bidders and other interested persons may be present.

7. Service of Protest

(a) Definitions. As used in this provision:

"Interested party" means an actual or prospective bidder whose direct economic interest would be affected by the award of the contract.

"Protest" means a written objection by an interested party to this solicitation or to a proposed or actual award of a contract pursuant to this solicitation.

(b) Protests shall be served on the Contracting Officer by obtaining written and dated acknowledgement from —

[Contracting Officer designate the official or location where a protest may be served on the Contracting Officer]

(c) All protests shall be resolved in accordance with the PHA's/IHA's protest policy and procedures, copies of which are maintained at the PHA/IHA.

8. Contract Award

(a) The PHA/IHA will evaluate bids in response to this solicitation without discussions and will award a contract to the responsible bidder whose bid, conforming to the solicitation, will be most advantageous to the PHA/IHA considering only price and any price-related factors specified in the solicitation.

(b) If the apparent low bid received in response to this solicitation exceeds the PHA's/IHA's available funding for the proposed contract work, the PHA/IHA may either accept separately priced items (see 8(e) below) or use the following procedure to determine contract award. The PHA/IHA shall apply in turn to each bid (proceeding in order from the apparent low bid to the high bid) each of the separately priced bid deductible items, if any, in their priority order set forth in this solicitation. If upon the application of the first deductible item to all initial bids, a new low bid is within the PHA's/IHA's available funding, then award shall be made to that bidder. If no bid is within the available funding amount, then the PHA/IHA shall apply the second deductible item. The PHA/IHA shall continue this process until an evaluated low bid, if any, is within the PHA's/IHA's available funding. If upon the application of all deductibles, no bid is within the PHA's/IHA's available funding, or if the solicitation does not request separately priced deductibles, the PHA/IHA shall follow its written policy and procedures in making any award under this solicitation.

(c) In the case of tie low bids, award shall be made in accordance with the PHA's/IHA's written policy and procedures.

(d) The PHA/IHA may reject any and all bids, accept other than the lowest bid (e.g., the apparent low bid is unreasonably low), and waive informalities or minor irregularities in bids received, in accordance with the PHA's/IHA's written policy and procedures.

(e) Unless precluded elsewhere in the solicitation, the PHA/IHA may accept any item or combination of items bid.

(f) The PHA/IHA may reject any bid as nonresponsive if it is materially unbalanced as to the prices for the various items of work to be performed. A bid is materially unbalanced when it is based on prices significantly less than cost for some work and prices which are significantly overstated for other work.

(g) A written award shall be furnished to the successful bidder within the period for acceptance specified in the bid and shall result in a binding contract without further action by either party.

9. Bid Guarantee (applicable to construction and equipment contracts exceeding \$25,000)

All bids must be accompanied by a negotiable bid guarantee which shall not be less than five percent (5%) of the amount of the bid. The bid guarantee may be a certified check, bank draft, U.S. Government Bonds at par value, or a bid bond secured by a surety company acceptable to the U.S. Government and authorized to do business in the state where the work is to be performed. In the case where the work under the contract will be performed on an Indian reservation area, the bid guarantee may also be an irrevocable Letter of Credit (see provision 10, Assurance of Completion, below). Certified checks and bank drafts must be made payable to the order of the PHA/IHA. The bid guarantee shall insure the execution of the contract and the furnishing of a method of assurance of completion by the successful bidder as required by the solicitation. Failure to submit a bid guarantee with the bid shall result in the rejection of the bid. Bid guarantees submitted by unsuccessful bidders will be returned as soon as practicable after bid opening.

10. Assurance of Completion

(a) Unless otherwise provided in State law, the successful bidder shall furnish an assurance of completion prior to the execution of any contract under this solicitation. This assurance may be [Contracting Officer check applicable items] —

[] (1) a performance and payment bond in a penal sum of 100 percent of the contract price; or, as may be required or permitted by State law;

[] (2) separate performance and payment bonds, each for 50 percent or more of the contract price;

[] (3) a 20 percent cash escrow;

[] (4) a 25 percent irrevocable letter of credit; or,

[] (5) an irrevocable letter of credit for 10 percent of the total contract price with a monitoring and disbursements agreement with the IHA (applicable only to contracts awarded by an IHA under the Indian Housing Program).

(b) Bonds must be obtained from guarantee or surety companies acceptable to the U.S. Government and authorized to do business in the state where the work is to be performed. Individual sureties will not be considered. U.S. Treasury Circular Number 570, published annually in the Federal Register, lists companies approved to act as sureties on bonds securing Government contracts, the maximum underwriting limits on each contract bonded, and the States in which the company is licensed to do business. Use of companies listed in this circular is mandatory. Copies of the circular may be downloaded on the U.S. Department of Treasury website <http://www.fms.treas.gov/c570/index.html>, or ordered for a minimum fee by contacting the Government Printing Office at (202) 512-2168.

(c) Each bond shall clearly state the rate of premium and the total amount of premium charged. The current power of attorney for the person who signs for the surety company must be attached to the bond. The effective date of the power of attorney shall not precede the date of the bond. The effective date of the bond shall be on or after the execution date of the contract.

(d) Failure by the successful bidder to obtain the required assurance of completion within the time specified, or within such extended period as the PHA/IHA may grant based upon reasons determined adequate by the PHA/IHA, shall render the bidder ineligible for award. The PHA/IHA may then either award the contract to the next lowest responsible bidder or solicit new bids. The PHA/IHA may retain the ineligible bidder's bid guarantee.

11. Preconstruction Conference (applicable to construction contracts)

After award of a contract under this solicitation and prior to the start of work, the successful bidder will be required to attend a preconstruction conference with representatives of the PHA/IHA and its architect/engineer, and other interested parties convened by the PHA/IHA. The conference will serve to acquaint the participants with the general plan of the construction operation and all other requirements of the contract (e.g., Equal Employment Opportunity, Labor Standards). The PHA/IHA will provide the successful bidder with the date, time, and place of the conference.

12. Indian Preference Requirements (applicable only if this solicitation is for a contract to be performed on a project for an Indian Housing Authority)

(a) HUD has determined that the contract awarded under this solicitation is subject to the requirements of section 7(b) of the Indian Self-Determination and Education Assistance Act (25 U.S.C. 450e(b)). Section 7(b) requires that any contract or subcontract entered into for the benefit of Indians shall require that, to the greatest extent feasible

(1) Preferences and opportunities for training and employment (other than core crew positions; see paragraph (h) below) in connection with the administration of such contracts or subcontracts be given to qualified "Indians." The Act defines "Indians" to mean persons who are members of an Indian tribe and defines "Indian tribe" to mean any Indian tribe, band, nation, or other organized group or community, including any Alaska Native village or regional or village corporation as defined in or established pursuant to the Alaska Native Claims Settlement Act, which is recognized as eligible for the special programs and services provided by the United States to Indians because of their status as Indians; and,

(2) Preference in the award of contracts or subcontracts in connection with the administration of contracts be given to Indian organizations and to Indian-owned economic enterprises, as defined in section 3 of the Indian Financing Act of 1974 (25 U.S.C. 1452). That Act defines "economic enterprise" to mean any Indian-owned commercial, industrial, or business activity established or organized for the purpose of profit, except that the Indian ownership must constitute not less than 51 percent of the enterprise; "Indian organization" to mean the governing body of any Indian tribe or entity established or recognized by such governing body; "Indian" to mean any person who is a member of any tribe, band, group, pueblo, or community which is recognized by the Federal Government as eligible for services from the Bureau of Indian Affairs and any "Native" as defined in the Alaska Native Claims Settlement Act; and Indian "tribe" to mean any Indian tribe, band, group, pueblo, or community including Native villages and Native groups (including

corporations organized by Kenai, Juneau, Sitka, and Kodiak) as defined in the Alaska Native Claims Settlement Act, which is recognized by the Federal Government as eligible for services from the Bureau of Indian Affairs.

(b) (1) The successful Contractor under this solicitation shall comply with the requirements of this provision in awarding all subcontracts under the contract and in providing training and employment opportunities.

(2) A finding by the IHA that the contractor, either (i) awarded a subcontract without using the procedure required by the IHA, (ii) falsely represented that subcontracts would be awarded to Indian enterprises or organizations; or, (iii) failed to comply with the contractor's employment and training preference bid statement shall be grounds for termination of the contract or for the assessment of penalties or other remedies.

(c) If specified elsewhere in this solicitation, the IHA may restrict the solicitation to qualified Indian-owned enterprises and Indian organizations. If two or more (or a greater number as specified elsewhere in the solicitation) qualified Indian-owned enterprises or organizations submit responsive bids, award shall be made to the qualified enterprise or organization with the lowest responsive bid. If fewer than the minimum required number of qualified Indian-owned enterprises or organizations submit responsive bids, the IHA shall reject all bids and readvertise the solicitation in accordance with paragraph (d) below.

(d) If the IHA prefers not to restrict the solicitation as described in paragraph (c) above, or if after having restricted a solicitation an insufficient number of qualified Indian enterprises or organizations submit bids, the IHA may advertise for bids from non-Indian as well as Indian-owned enterprises and Indian organizations. Award shall be made to the qualified Indian enterprise or organization with the lowest responsive bid if that bid is -

(1) Within the maximum HUD-approved budget amount established for the specific project or activity for which bids are being solicited; and

(2) No more than the percentage specified in 24 CFR 905.175(c) higher than the total bid price of the lowest responsive bid from any qualified bidder. If no responsive bid by a qualified Indian-owned economic enterprise or organization is within the stated range of the total bid price of the lowest responsive bid from any qualified enterprise, award shall be made to the bidder with the lowest bid.

(e) Bidders seeking to qualify for preference in contracting or subcontracting shall submit proof of Indian ownership with their bids. Proof of Indian ownership shall include but not be limited to:

(1) Certification by a tribe or other evidence that the bidder is an Indian. The IHA shall accept the certification of a tribe that an individual is a member.

(2) Evidence such as stock ownership, structure, management, control, financing and salary or profit sharing arrangements of the enterprise.

(f) (1) All bidders must submit with their bids a statement describing how they will provide Indian preference in the award of subcontracts. The specific requirements of that statement and the factors to be used by the IHA in determining the statement's adequacy are included as an attachment to this solicitation. Any bid that fails to include the required statement shall be rejected as nonresponsive. The IHA may require that comparable statements be provided by subcontractors to the successful Contractor, and may require the Contractor to reject any bid or proposal by a subcontractor that fails to include the statement.

(2) Bidders and prospective subcontractors shall submit a certification (supported by credible evidence) to the IHA in any instance where the bidder or subcontractor believes it is infeasible to provide Indian preference in subcontracting. The acceptance or rejection by the IHA of the certification shall be final. Rejection shall disqualify the bid from further consideration.

(g) All bidders must submit with their bids a statement detailing their employment and training opportunities and their plans to provide preference to Indians in implementing the contract; and the number or percentage of Indians anticipated to be employed and trained. Comparable statements from all proposed subcontractors must be submitted. The criteria to be used by the IHA in determining the statement(s)'s adequacy are included as an attachment to this solicitation. Any bid that fails to include the required statement(s), or that includes a statement that does not meet minimum standards required by the IHA shall be rejected as nonresponsive.

(h) Core crew employees. A core crew employee is an individual who is a bona fide employee of the contractor at the time the bid is submitted; or an individual who was not employed by the bidder at the time the bid was submitted, but who is regularly employed by the bidder in a supervisory or other key skilled position when work is available. Bidders shall submit with their bids a list of all core crew employees.

(i) Preference in contracting, subcontracting, employment, and training shall apply not only on-site, on the reservation, or within the IHA's jurisdiction, but also to contracts with firms that operate outside these areas (e.g., employment in modular or manufactured housing construction facilities).

(j) Bidders should contact the IHA to determine if any additional local preference requirements are applicable to this solicitation.

(k) The IHA ☐ does ☐ does not [Contracting Officer check applicable box] maintain lists of Indian-owned economic enterprises and Indian organizations by specialty (e.g., plumbing, electrical, foundations), which are available to bidders to assist them in meeting their responsibility to provide preference in connection with the administration of contracts and subcontracts.

**U.S. Department of Housing
and Urban Development**
Office of Public and Indian Housing

**Representations, Certifications,
and Other Statements of Bidders**
Public and Indian Housing Programs

Representations, Certifications, and Other Statements of Bidders

Public and Indian Housing Programs

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1. Certificate of Independent Price Determination

(a) The bidder certifies that--

(1) The prices in this bid have been arrived at independently, without, for the purpose of restricting competition, any consultation, communication, or agreement with any other bidder or competitor relating to (i) those prices, (ii) the intention to submit a bid, or (iii) the methods or factors used to calculate the prices offered;

(2) The prices in this bid have not been and will not be knowingly disclosed by the bidder, directly or indirectly, to any other bidder or competitor before bid opening (in the case of a sealed bid solicitation) or contract award (in the case of a competitive proposal solicitation) unless otherwise required by law; and

(3) No attempt has been made or will be made by the bidder to induce any other concern to submit or not to submit a bid for the purpose of restricting competition.

(b) Each signature on the bid is considered to be a certification by the signatory that the signatory--

(1) Is the person in the bidder's organization responsible for determining the prices being offered in this bid or proposal, and that the signatory has not participated and will not participate in any action contrary to subparagraphs (a)(1) through (a)(3) above; or

(2) (i) Has been authorized, in writing, to act as agent for the following principals in certifying that those principals have not participated, and will not participate in any action contrary to subparagraphs (a)(1) through (a)(3) above.

[insert full name of person(s) in the bidder's organization responsible for determining the prices offered in this bid or proposal, and the title of his or her position in the bidder's organization];

(ii) As an authorized agent, does certify that the principals named in subdivision (b)(2)(i) above have not participated, and will not participate, in any action contrary to subparagraphs (a)(1) through (a)(3) above; and

(iii) As an agent, has not personally participated, and will not participate in any action contrary to subparagraphs (a)(1) through (a)(3) above.

(c) If the bidder deletes or modifies subparagraph (a)2 above, the bidder must furnish with its bid a signed statement setting forth in detail the circumstances of the disclosure.

[] [Contracting Officer check if following paragraph is applicable]

(d) Non-collusive affidavit. (applicable to contracts for construction and equipment exceeding \$50,000)

(1) Each bidder shall execute, in the form provided by the PHA/IHA, an affidavit to the effect that he/she has not colluded with any other person, firm or corporation in regard to any bid submitted in response to this solicitation. If the successful bidder did not submit the affidavit with his/her bid, he/she must submit it within three (3) working days of bid opening. Failure to submit the affidavit by that date may render the bid nonresponsive. No contract award will be made without a properly executed affidavit.

(2) A fully executed "Non-collusive Affidavit" [] is, [] is not included with the bid.

2. Contingent Fee Representation and Agreement

(a) Definitions. As used in this provision:

"Bona fide employee" means a person, employed by a bidder and subject to the bidder's supervision and control as to time, place, and manner of performance, who neither exerts, nor proposes to exert improper influence to solicit or obtain contracts nor holds out as being able to obtain any contract(s) through improper influence.

"Improper influence" means any influence that induces or tends to induce a PHA/IHA employee or officer to give consideration or to act regarding a PHA/IHA contract on any basis other than the merits of the matter.

(b) The bidder represents and certifies as part of its bid that, except for full-time bona fide employees working solely for the bidder, the bidder:

(1) [] has, [] has not employed or retained any person or company to solicit or obtain this contract; and

(2) [] has, [] has not paid or agreed to pay to any person or company employed or retained to solicit or obtain this contract any commission, percentage, brokerage, or other fee contingent upon or resulting from the award of this contract.

(c) If the answer to either (a)(1) or (a)(2) above is affirmative, the bidder shall make an immediate and full written disclosure to the PHA/IHA Contracting Officer.

(d) Any misrepresentation by the bidder shall give the PHA/IHA the right to (1) terminate the contract; (2) at its discretion, deduct from contract payments the amount of any commission, percentage, brokerage, or other contingent fee; or (3) take other remedy pursuant to the contract.

3. Certification and Disclosure Regarding Payments to Influence Certain Federal Transactions (applicable to contracts exceeding \$100,000)

(a) The definitions and prohibitions contained in Section 1352 of title 31, United States Code, are hereby incorporated by reference in paragraph (b) of this certification.

(b) The bidder, by signing its bid, hereby certifies to the best of his or her knowledge and belief as of December 23, 1989 that:

(1) No Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress on his or her behalf in connection with the awarding of a contract resulting from this solicitation;

(2) If any funds other than Federal appropriated funds (including profit or fee received under a covered Federal transaction) have been paid, or will be paid, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress on his or her behalf in connection with this solicitation, the bidder shall complete and submit, with its bid, OMB standard form LLL, "Disclosure of Lobbying Activities;" and

(3) He or she will include the language of this certification in all subcontracts at any tier and require that all recipients of subcontract awards in excess of \$100,000 shall certify and disclose accordingly.

(c) Submission of this certification and disclosure is a prerequisite for making or entering into this contract imposed by section 1352, title 31, United States Code. Any person who makes an expenditure prohibited under this provision or who fails to file or amend the disclosure form to be filed or amended by this provision, shall be subject to a civil penalty of not less than \$10,000, and not more than \$100,000, for each such failure.

(d) Indian tribes (except those chartered by States) and Indian organizations as defined in section 4 of the Indian Self-Determination and Education Assistance Act (25 U.S.C. 450B) are exempt from the requirements of this provision.

4. Organizational Conflicts of Interest Certification

The bidder certifies that to the best of its knowledge and belief and except as otherwise disclosed, he or she does not have any organizational conflict of interest which is defined as a situation in which the nature of work to be performed under this proposed contract and the bidder's organizational, financial, contractual, or other interests may, without some restriction on future activities:

- (a) Result in an unfair competitive advantage to the bidder; or,
- (b) Impair the bidder's objectivity in performing the contract work.

[] In the absence of any actual or apparent conflict, I hereby certify that to the best of my knowledge and belief, no actual or apparent conflict of interest exists with regard to my possible performance of this procurement.

5. Bidder's Certification of Eligibility

(a) By the submission of this bid, the bidder certifies that to the best of its knowledge and belief, neither it, nor any person or firm which has an interest in the bidder's firm, nor any of the bidder's subcontractors, is ineligible to:

(1) Be awarded contracts by any agency of the United States Government, HUD, or the State in which this contract is to be performed; or,

(2) Participate in HUD programs pursuant to 24 CFR Part 24.

(b) The certification in paragraph (a) above is a material representation of fact upon which reliance was placed when making award. If it is later determined that the bidder knowingly rendered an erroneous certification, the contract may be terminated for default, and the bidder may be debarred or suspended from participation in HUD programs and other Federal contract programs.

6. Minimum Bid Acceptance Period

(a) "Acceptance period," as used in this provision, means the number of calendar days available to the PHA/IHA for awarding a contract from the date specified in this solicitation for receipt of bids.

(b) This provision supersedes any language pertaining to the acceptance period that may appear elsewhere in this solicitation.

(c) The PHA/IHA requires a minimum acceptance period of [Contracting Officer insert time period] calendar days.

(d) In the space provided immediately below, bidders may specify a longer acceptance period than the PHA's/IHA's minimum requirement. The bidder allows the following acceptance period: calendar days.

(e) A bid allowing less than the PHA's/IHA's minimum acceptance period will be rejected.

(f) The bidder agrees to execute all that it has undertaken to do, in compliance with its bid, if that bid is accepted in writing within (1) the acceptance period stated in paragraph (c) above or (2) any longer acceptance period stated in paragraph (d) above.

7. Small, Minority, Women-Owned Business Concern Representation

The bidder represents and certifies as part of its bid/ offer that it --

(a) [] is, [] is not a small business concern. "Small business concern," as used in this provision, means a concern, including its affiliates, that is independently owned and operated, not dominant in the field of operation in which it is bidding, and qualified as a small business under the criteria and size standards in 13 CFR 121.

(b) [] is, [] is not a women-owned business enterprise. "Women-owned business enterprise," as used in this provision, means a business that is at least 51 percent owned by a woman or women who are U.S. citizens and who also control and operate the business.

(c) [] is, [] is not a minority business enterprise. "Minority business enterprise," as used in this provision, means a business which is at least 51 percent owned or controlled by one or more minority group members or, in the case of a publicly owned business, at least 51 percent of its voting stock is owned by one or more minority group members, and whose management and daily operations are controlled by one or more such individuals. For the purpose of this definition, minority group members are:

(Check the block applicable to you)

- | | |
|------------------------|------------------------------|
| [] Black Americans | [] Asian Pacific Americans |
| [] Hispanic Americans | [] Asian Indian Americans |
| [] Native Americans | [] Hasidic Jewish Americans |

8. Indian-Owned Economic Enterprise and Indian Organization Representation (applicable only if this solicitation is for a contract to be performed on a project for an Indian Housing Authority)

The bidder represents and certifies that it:

(a) [] is, [] is not an Indian-owned economic enterprise. "Economic enterprise," as used in this provision, means any commercial, industrial, or business activity established or organized for the purpose of profit, which is at least 51 percent Indian owned. "Indian," as used in this provision, means any person who is a member of any tribe, band, group, pueblo, or community which is recognized by the Federal Government as eligible for services from the Bureau of Indian Affairs and any "Native" as defined in the Alaska Native Claims Settlement Act.

(b) [] is, [] is not an Indian organization. "Indian organization," as used in this provision, means the governing body of any Indian tribe or entity established or recognized by such governing body. Indian "tribe" means any Indian tribe, band, group, pueblo, or

community including Native villages and Native groups (including corporations organized by Kenai, Juneau, Sitka, and Kodiak) as defined in the Alaska Native Claims Settlement Act, which is recognized by the Federal Government as eligible for services from the Bureau of Indian Affairs.

9. Certification of Eligibility Under the Davis-Bacon Act (applicable to construction contracts exceeding \$2,000)

(a) By the submission of this bid, the bidder certifies that neither it nor any person or firm who has an interest in the bidder's firm is a person or firm ineligible to be awarded contracts by the United States Government by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

(b) No part of the contract resulting from this solicitation shall be subcontracted to any person or firm ineligible to be awarded contracts by the United States Government by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

(c) The penalty for making false statements is prescribed in the U. S. Criminal Code, 18 U.S.C. 1001.

10. Certification of Nonsegregated Facilities (applicable to contracts exceeding \$10,000)

(a) The bidder's attention is called to the clause entitled **Equal Employment Opportunity** of the General Conditions of the Contract for Construction.

(b) "Segregated facilities," as used in this provision, means any waiting rooms, work areas, rest rooms and wash rooms, restaurants and other eating areas, time clocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees, that are segregated by explicit directive or are in fact segregated on the basis of race, color, religion, or national origin because of habit, local custom, or otherwise.

(c) By the submission of this bid, the bidder certifies that it does not and will not maintain or provide for its employees any segregated facilities at any of its establishments, and that it does not and will not permit its employees to perform their services at any location under its control where segregated facilities are maintained. The bidder agrees that a breach of this certification is a violation of the Equal Employment Opportunity clause in the contract.

(d) The bidder further agrees that (except where it has obtained identical certifications from proposed subcontractors for specific time periods) prior to entering into subcontracts which exceed \$10,000 and are not exempt from the requirements of the Equal Employment Opportunity clause, it will:

(1) Obtain identical certifications from the proposed subcontractors;

(2) Retain the certifications in its files; and

(3) Forward the following notice to the proposed subcontractors (except if the proposed subcontractors have submitted identical certifications for specific time periods):

Notice to Prospective Subcontractors of Requirement for Certifications of Nonsegregated Facilities

A Certification of Nonsegregated Facilities must be submitted before the award of a subcontract exceeding \$10,000 which is not exempt from the provisions of the Equal Employment Opportunity clause of the prime contract. The certification may be submitted either for each subcontract or for all subcontracts during a period (i.e., quarterly, semiannually, or annually).

Note: The penalty for making false statements in bids is prescribed in 18 U.S.C. 1001.

11. Clean Air and Water Certification (applicable to contracts exceeding \$100,000)

The bidder certifies that:

(a) Any facility to be used in the performance of this contract [] is, [] is not listed on the Environmental Protection Agency List of Violating Facilities:

(b) The bidder will immediately notify the PHA/IHA Contracting Officer, before award, of the receipt of any communication from the Administrator, or a designee, of the Environmental Protection Agency, indicating that any facility that the bidder proposes to use for the performance of the contract is under consideration to be listed on the EPA List of Violating Facilities; and,

(c) The bidder will include a certification substantially the same as this certification, including this paragraph (c), in every nonexempt subcontract.

12. Previous Participation Certificate (applicable to construction and equipment contracts exceeding \$50,000)

(a) The bidder shall complete and submit with his/her bid the Form HUD-2530, "Previous Participation Certificate." If the successful bidder does not submit the certificate with his/her bid, he/she must submit it within three (3) working days of bid opening. Failure to submit the certificate by that date may render the bid nonresponsive. No contract award will be made without a properly executed certificate.

(b) A fully executed "Previous Participation Certificate" [] is, [] is not included with the bid.

13. Bidder's Signature

The bidder hereby certifies that the information contained in these certifications and representations is accurate, complete, and current.

(Signature and Date)

(Typed or Printed Name)

(Title)

(Company Name)

(Company Address)

FORM OF NON-COLLUSIVE AFFIDAVIT

A F F I D A V I T

(Firm Submitting Proposal)

State of _____) ss

Country of _____)

_____, being first duly sworn, deposes
and says:

That he is _____ (A partner or officer of the firm of, etc.)
the party making the foregoing proposal, that such proposal is genuine and not collusive or sham; that
said person has not colluded, conspired connived or agreed, directly or indirectly with any person, to put
in a sham proposal or to refrain from submitting a proposal, and has not in any manner, directly or
indirectly, sought by agreement or collusion, or communication or conference, with any person, to fix the
proposal price or affidavit or any other firm submitting a proposal, or to fix any overhead, profit or cost
element of said proposal price, or of that of any other firm submitting a proposal, or to secure any
advantage against the _____ (LHA) _____ or any person interested in the
proposed contract; and that all statements in said proposal are true.

Signature of:

Authorized Individual if Proposal is

Submitted as an Individual Partnership.

Corporation, etc.

Subscribed and sworn to before me

this _____ day of _____, 20__

My commission expires _____, 20__

Section 3 Clause

A. The work to be performed under this contract is subject to the requirements of section 3 of the Housing and Urban Development Act of 1968, as amended, 12 U.S.C. 1701u (Section 3). The purpose of Section 3 is to ensure that employment and other economic opportunities generated by HUD assistance or HUD-assisted projects covered by Section 3, shall, to the greatest extent feasible, be directed to low- and very low-income persons, particularly persons who are recipients of HUD assistance for housing.

B. The parties to this contract agree to comply with HUD's regulations in 24 CFR part 135, which implement Section 3. As evidenced by their execution of this contract, the parties to this contract certify that they are under no contractual or other impediment that would prevent them from complying with the part 135 regulations.

C. The contractor agrees to send to each labor organization or representative or workers with which the contractor has a collective bargaining agreement or other understanding, if any, a notice advising the labor organization or workers' representative of the contractor's commitments under this Section 3 clause, and will post copies of the notice in conspicuous places at the work site where both employees and applicants for training and employment positions can see the notice. The notice shall describe the Section 3 preference, shall set forth minimum number and job titles subject to hire, availability of apprenticeship and training positions, the qualifications for each; and the name and location of the person(s) taking applications for each of the positions; and the anticipated date the work shall begin.

D. The contractor agrees to include this Section 3 clause in every subcontract subject to compliance with regulations in 24 CFR part 135, and agrees to take appropriate action, as provided in an applicable provision of the subcontract or in this Section 3 clause, upon a finding that the subcontractor is in violation of the regulations in 24 CFR part 135. The contractor will not subcontract with any subcontractor where the contractor has notice or knowledge that the subcontractor has been found in violation of the regulations in 24 CFR part 135.

E. The contractor will certify that any vacant employment positions, including training positions, that are filled (1) after the contractor is selected but before the contract is executed, and (2) with persons other than those to whom the regulations of 24 CFR part 135 require employment opportunities to be directed, were not filled to circumvent the contractor's obligations under 24 CFR part 135.

F. Noncompliance with HUD's regulations in 24 CFR part 135 may result in sanctions, termination of this contract for default, and debarment or suspension from future HUD assisted contracts.

G. With respect to work performed in connection with Section 3 covered Indian housing assistance, section 7(b) of the Indian Self-Determination and Education Assistance Act (25 U.S.C. 450e) also applies to the work to be performed under this contract. Section 7(b) requires that to the greatest extent feasible (i) preference and opportunities for training and employment shall be given to Indians, and (ii) preference in the award of contracts and subcontracts shall be given to Indian organizations and Indian-owned Economic Enterprises. Parties to this contract that are subject to the provisions of Section 3 to the maximum extent feasible, but not in derogation of compliance with section 7(b).

Record of Employee Interview Instructions

U.S. Department of Housing
and Urban Development
Office of Labor Relations

OMB Approval No. 2501-0009
(exp. 10/31/2010)

Instructions

General:

This form is to be used by HUD and local agency staff for recording information gathered during on-site interviews with laborers and mechanics employed on projects subject to Federal prevailing wage requirements. Typically, the staff that will conduct on-site interviews and use this form are HUD staff and fee construction inspectors, HUD Labor Relations staff, and local agency labor standards contract monitors.

Information recorded on the form HUD-11 is evaluated for general compliance and compared to certified payroll reports submitted by the respective employer. The comparison tests the veracity of the payroll reports and may be critical to the successful conclusion of enforcement actions in the event of labor standards violations. The thoroughness and accuracy of the information gathered during interviews is crucial.

Note that the interview itself and the information collected on the form HUD-11 are considered confidential. Interviews should be conducted individually and privately. All laborers and mechanics employed on the job site must be made available for interview at the interviewer's request. The employee's participation, however, is voluntary. Interviews shall be conducted in a manner and place that are conducive to the purposes of the interview and that cause the least inconvenience to the employer(s) and the employee(s).

Completing the form HUD-11

Items 1a - 1c: Self-explanatory

Items 2a - 2d: Enter the employee's full name, a telephone number where the employee can be reached, and the employee's home address. Many construction workers use a temporary address in the locality of the project and have a more permanent address elsewhere from which mail may be forwarded to them. Obtain a more permanent address, if available. Ask the employee for a form of identification (e.g., driver's license) to verify their name.

Items 3a - 4c: Enter the employee's responses. Ask the employee whether they have a pay stub with them; if so, determine whether the pay stub is consistent with the information provided by the employee.

Items 5 - 7: Be certain that the employee's responses are specific. For example, job classification (#5) must identify the trade involved (e.g., Carpenter, Electrician, Plumber) - responses such as "journeyman" or "mechanic" are not helpful for our purposes.

Items 8 - 12b: Self-explanatory

Items 13 - 15c: These items represent some of the most important information that can be gathered while conducting on-site interviews. Please be specific about the duties you observed the employee performing. It may be easiest to make these observations before initiating the interview. Please record any comments or remarks that may be helpful. For example, if the employee interviewed was working with a crew, how many workers were in the crew? Was the employee evasive?

The level of specificity that is warranted is directly related to the extent to which interview(s) or other observations indicate that there may be violations present. If interviews indicate that there may be underpayments involving a particular trade(s), the interviewer is encouraged to interview as many workers in that trade(s) that are available.

Items 16 - 17b: The information on the form HUD-11 may be reviewed for general compliance, initially. For example, are the job classification and wage rate stated by the employee compatible with the classifications and wage rates on the applicable wage decision? Are the duties observed by the interviewer consistent with the job classification?

Once the corresponding certified payroll reports are received, the information on the HUD-11 shall be compared to the payroll reports. Any discrepancies noted between the HUD-11 information and that on the payroll report shall be noted in Item 16, Remarks. If discrepancies are noted, follow-up actions to resolve the discrepancies must be taken.

Record of Employee Interview

U.S. Department of Housing and Urban Development Office of Labor Relations

OMB Approval No. 2501-0009
(exp. 10/31/2010)

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. This agency may not collect this information, and you are not required to complete this form, unless it displays a currently valid OMB control number. The information is collected to ensure compliance with the Federal labor standards by recording interviews with construction workers. The information collected will assist HUD in the conduct of compliance monitoring; the information will be used to test the veracity of certified payroll reports submitted by the employer. **Sensitive Information.** The information collected on this form is considered sensitive and is protected by the Privacy Act. The Privacy Act requires that these records be maintained with appropriate administrative, technical, and physical safeguards to ensure their security and confidentiality. In addition, these records should be protected against any anticipated threats or hazards to their security or integrity that could result in substantial harm, embarrassment, inconvenience, or unfairness to any individual on whom the information is maintained. **The information collected herein is voluntary, and any information provided shall be kept confidential.**

1a. Project Name			2a. Employee Name		
1b. Project Number			2b. Employee Phone Number (including area code)		
1c. Contractor or Subcontractor (Employer)			2c. Employee Home Address & Zip Code		
			2d. Verification of identification? Yes <input type="checkbox"/> No <input type="checkbox"/>		
3a. How long on this job?	3b. Last date on this job before today?	3c. No. of hours last day on this job?	4a. Hourly rate of pay?	4b. Fringe Benefits? Vacation Yes <input type="checkbox"/> No <input type="checkbox"/> Medical Yes <input type="checkbox"/> No <input type="checkbox"/> Pension Yes <input type="checkbox"/> No <input type="checkbox"/>	4c. Pay stub? Yes <input type="checkbox"/> No <input type="checkbox"/>

5. Your job classification(s) (list all) --- continue on a separate sheet if necessary

6. Your duties

7. Tools or equipment used

	Y	N		Y	N
8. Are you an apprentice or trainee?	<input type="checkbox"/>	<input type="checkbox"/>	10. Are you paid at least time and ½ for all hours worked in excess of 40 in a week?	<input type="checkbox"/>	<input type="checkbox"/>
9. Are you paid for all hours worked?	<input type="checkbox"/>	<input type="checkbox"/>	11. Have you ever been threatened or coerced into giving up any part of your pay?	<input type="checkbox"/>	<input type="checkbox"/>

12a. Employee Signature	12b. Date
-------------------------	-----------

13. Duties observed by the Interviewer (Please be specific.)

14. Remarks

15a. Interviewer name (please print)	15b. Signature of Interviewer	15c. Date of interview
--------------------------------------	-------------------------------	------------------------

Payroll Examination

16. Remarks

17a. Signature of Payroll Examiner	17b. Date
------------------------------------	-----------

Date: _____

Contractor: _____

Re: Contractual Liability Risk Management

It is our policy to identify and effectively manage our contractual liabilities arising out of business relationships with Contractors. We seek to take responsibility for our own actions and their consequences, while requiring our business partners to assume a share of risk relative to their ability to control it.

Given the number of contractual relationships that we may have at any point in time, it is imperative that we control the type and magnitude of the liabilities we assume. Conversely, we will look for opportunities to ensure that where legally possible, we manage our risks by asking others to contractually assume their share of liability. The effective management of these liabilities will allow us to lower our overall cost of risk. This program is a vital element of our overall safety and risk management program.

In order to perform as a Contractor for us, we will require a certificate of insurance form from you with limits equal to or greater than those on the attached sample certificate. We will require that we have additional insured coverage on your general liability policy for ongoing and completed operation on a primary and non-contributory basis as indicated on the attached sample certificate.

The following Hold Harmless and Indemnity Agreement, as evidenced by your (the Contractors') signature below, hereby applies to all work performed by the Contractor on our behalf, whether or not a separate work order or contract has been signed or agreed to between the parties:

To the fullest extent permitted by law, the Contractor hereby acknowledges and agrees that it shall indemnify, hold harmless and defend **The Housing Authority of the City of Pawtucket** and any of their officers, directors, employees, agents, affiliates, subsidiaries and partners, from and against all claims, damages, losses and expenses, including but not limited to, attorney's fees,

Paula McFarland, Executive Director
Mary E. Bray, Commissioner

Adrienne J. Kirschner, Commissioner

Beth Roberge, Chairperson
Robert Ricci, Commissioner

Kevin Rabbitt, Commissioner

George L. Kelley, III, Vice Chairperson
Olga Torres, Commissioner

arising out of or resulting from the performance of the Contractor's work, provided that any such claim, damage, loss or expense (1) is attributable to bodily injury, sickness, disease or death or to the destruction of tangible property (other than to the work itself) including loss of use resulting there from, and (2) is caused in whole or in part by any acts or omissions of the Contractor, its employees, agents or Subcontractors or anyone directly or indirectly employed by any of them, or anyone whose acts any of them may be liable.

The Contractor hereby acknowledges its obligation under the foregoing paragraph to indemnify **The Housing Authority of the City of Pawtucket** against judgments suffered because of the Contractor's work and to assume the cost of defending **The Housing Authority of the City of Pawtucket** against claims as described in the foregoing paragraph.

Name:

Title:

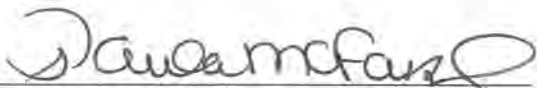
Company:

We must receive the required Certificate of Insurance meeting all of our requirements, as well as the Contractor's signature above accepting the terms of this letter, prior to the beginning of any work.

If you have any questions on the above requirements, please contact **Joseph Loconto** at **(401) 721-6013**.

Sincerely,

The Housing Authority of the City of Pawtucket



By: **Paula McFarland**

Title: **Executive Director**



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

Current Date

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an **ADDITIONAL INSURED**, the policy(ies) must have **ADDITIONAL INSURED** provisions or be endorsed. If **SUBROGATION IS WAIVED**, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Contractor Insurance Agent 123 Main Street Anytown State Zip	CONTACT NAME:	
	PHONE (A/C, No, Ext):	FAX (A/C, No):
	E-MAIL ADDRESS:	
	INSURER(S) AFFORDING COVERAGE	
INSURED Contractor Name Address City State Zip	INSURER A: Abc Insurance Company	
	INSURER B: DEF Insurance Company	
	INSURER C: GHI Insurance Company	
	INSURER D:	
	INSURER E:	
	INSURER F:	

COVERAGES**CERTIFICATE NUMBER:****REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY	X	X	Policy Number	Current	Date	EACH OCCURRENCE	\$ 1,000,000
	<input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ 100,000
							MED EXP (Any one person)	\$ 5,000
							PERSONAL & ADV INJURY	\$ 1,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	\$ 2,000,000
	<input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC						PRODUCTS - COMP/OP AGG	\$ 2,000,000
	OTHER:							\$
B	AUTOMOBILE LIABILITY	X	X	Policy Number	Current	Date	COMBINED SINGLE LIMIT (Ea accident)	\$ 1,000,000
	<input checked="" type="checkbox"/> ANY AUTO						BODILY INJURY (Per person)	\$
	<input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY						BODILY INJURY (Per accident)	\$
							PROPERTY DAMAGE (Per accident)	\$
								\$
A	<input checked="" type="checkbox"/> UMBRELLA LIAB						EACH OCCURRENCE	\$ 1,000,000
	<input type="checkbox"/> EXCESS LIAB						AGGREGATE	\$ 1,000,000
	<input type="checkbox"/> CLAIMS-MADE							\$
	DED <input type="checkbox"/> RETENTION \$							
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY	N/A		Policy Number	Current	Date	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER	
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) <input type="checkbox"/> Y / N						E.L. EACH ACCIDENT	\$ 500,000
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE	\$ 500,000
							E.L. DISEASE - POLICY LIMIT	\$ 500,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

The certificate holder is included as an additional insured on the general liability policy for both ongoing (CG2010) and completed (CG20137) operations, or their equivalents, on a primary and non-contributory basis. All insurance carriers affording coverage are admitted to do business in the State of Rhode Island.

CERTIFICATE HOLDER**CANCELLATION**

The Housing Authority of the City of Pawtucket RI 214 Roosevelt Avenue Pawtucket RI 02862-1303	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE Must be signed

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Logo Here

SECTION 3 POLICY

The Housing Authority of the City of Pawtucket
214 ROOSEVELT AVE PAWTUCKET, RI 02861

Office: (401) 721-6000 Website: <https://www.pawthousing.org>

INTERNAL PROCEDURES, INSTRUCTIONS, AND FORMS

This packet is designed to comply with the New HUD Section 3 Final Rule issued September 29, 2020, and became effective November 30, 2020. Therefore, these documents and instructions are related to the “Hours Worked Benchmarks” as called for in the **24 CFR Part 75 regulation**. Every contractor and sub-contractor (with the exception of professional services) are required to work toward meeting the prescribed benchmarks as indicated on the bottom of page 10 of this packet. **There are no specific hiring or contracting goals under this new rule.**

Most importantly, **the rule does not require the hiring or contracting of any person or business that is not fully qualified** to perform the work as would be charged. However, the rule makes clear that HUD is intent on ensuring Section 3 persons employed under the new rule receive measurable and sustainable employment. Therefore, Section 3 employees can be counted for up to five full years from the date of certification or hire respectively. HUD is expected to issue continued guidance on the new rule in the future so these documents may change in accordance with the rule.

If you should have any questions on this packet, please contact our Compliance Consultant:

Cecelia M. Swiney-Horne, Compliance Manager

Motivation, Inc.

678-350-5460

cswiney@motivation-inc.com

Prepared January 28, 2022

Board Approved: _____

GOVERNING PARTS OF THE SECTION 3 FINAL RULE SPECIFIC TO THE
THE HOUSING AUTHORITY OF THE CITY OF PAWTUCKET
The Final Rule is at 24 CFR Part 75

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SECTION 3 BACKGROUND

Applicable to all expenditures and agreements regardless of the dollar amount

Background - Section 3 of the Housing and Urban Development Act of 1968 (Public Law 90-448, approved August 1, 1968) (Section 3) was enacted to bring economic opportunities generated by certain HUD financial assistance expenditures, to the greatest extent feasible, to low- and very low-income persons residing in communities where the financial assistance is expended. Section 3 recognizes that HUD funds are often one of the largest sources of Federal funds expended in low- and very low-income communities and, where such funds are spent on activities such as construction and rehabilitation of housing and other public facilities, the expenditure results in economic opportunities. By directing HUD-funded economic opportunities to residents and businesses in the community where the funds are expended, the expenditure can have the dual benefit of creating new or rehabilitated housing and other facilities while providing opportunities for employment and training for the residents of these communities.

The Section 3 statute establishes priorities for employment and contracting for public housing programs and for other programs that provide housing and community development assistance. For example, the prioritization as it relates to public housing assistance places an emphasis on public housing residents, in contrast to the prioritization as it relates to housing and community development assistance, which places more emphasis on residents of the neighborhood or service area in which the investment is being made.

INTERNAL PROCEDURES FOR IMPLEMENTATION OF THE RULE

The Housing Authority of the City of Pawtucket Internal Hiring Procedure

For all positions at the authority, the human resources staff will include the Section 3 Individual Low-Income Person Self Certification form with the applications (virtually and paper) allowing each applicant to identify themselves accordingly. The completion of the form will remain voluntary and at the applicants discretion.

Once all applications have been received and reviewed, the most desirous and qualified candidate will be progressed through the hiring process. The Section 3 status of the applicant will be considered only after the "Most Qualified" candidate has been determined.

If there are multiple and equally qualified persons, the Section 3 status and category of the applicant will be considered. The candidate with the highest Section 3 priority based on the 24CFR Part 75.9(a)(2) will be offered the position.

All advertisements for positions with the authority will carry this wording:

"This opportunity is covered under Section 3 of the HUD Act of 1968"

The Housing Authority of the City of Pawtucket Contracting Procedure

For all advertised contracts let by the authority, the responsible staff will include the Section 3 Business Self Certification form and the Section 3 Individual Low-Income Self Certification form with the bid package (virtually and paper) allowing each respondent to identify themselves and their business accordingly. The completion of the forms will remain voluntary and at the respondents discretion.

Once all responses have been received and reviewed, the most desirous and qualified business will be progressed through the contracting process. The Section 3 status of the respondent will be considered only after the "Most Qualified and Advantageous" respondent has been determined.

If there are multiple and equally qualified businesses, the Section 3 status and category of the business will be considered. The business with the highest Section 3 priority, based on the 24CFR Part 75.9 (b)(2) will be awarded the contract. All other applicable procurement laws will be adhered to relative to contracting amounts. All advertisements for contracts with the authority will carry this wording:

"This opportunity is covered under Section 3 of the HUD Act of 1968"

The Housing Authority of the City of Pawtucket Internal Resident Training Procedure

For all resident training offered by The Housing Authority of the City of Pawtucket and its contractors, the staff will include the Section 3 Individual Low-Income Person Self Certification form with the training notice or upon the first day of training (virtually and paper) allowing each prospective trainee to identify themselves accordingly as public housing or Section 8. The completion of the form will NOT be voluntary as the prospective trainees will be allowed to attend based on their prioritization in the 24CFR Part 75.9(a)(2).

If the training is being paid for with HUD Public Housing financial assistance, the training will be limited to residents and potentially voucher holders only.

All advertisements for training will carry this wording:

"This opportunity is covered under Section 3 of the HUD Act of 1968"

Key Rule Components

Note: Where a portion of a Section specifically spoke to areas not related to Public Housing Assistance, those pieces were intentionally removed. So there is no need to feel something important is not included.

§ 75.1 Purpose.

This part establishes the requirements to be followed to ensure the objectives of Section 3 of the Housing and Urban Development Act of 1968 (12 U.S.C. 1701u) (Section 3) are met. The purpose of Section 3 is to ensure that economic opportunities, most importantly employment, generated by certain HUD financial assistance shall be directed to low- and very low-income persons, particularly those who are recipients of government assistance for housing or residents of the community in which the Federal assistance is spent.

§ 75.3 Applicability.

(a) General applicability. Section 3 applies to public housing financial assistance and Section 3 projects, as follows:

(1) Public housing financial assistance. Public housing financial assistance means:

(i) Development assistance provided pursuant to section 5 of the United States Housing Act of 1937 (the 1937 Act);

(ii) Operations and management assistance provided pursuant to section 9(e) of the 1937 Act;

(iv) The entirety of a mixed-finance development project as described in 24 CFR 905.604, regardless of whether the project is fully or partially assisted with public housing financial assistance as defined in paragraphs (a)(1)(i) through (iii) of this section.

(iii) The requirements in this part apply to an entire Section 3 project, regardless of whether the project is fully or partially assisted under HUD programs that provide housing and community development financial assistance.

(b) Contracts for materials. Section 3 requirements do not apply to material supply contracts.

(d) Other HUD assistance and other Federal assistance. Recipients that are not subject to Section 3 are encouraged to consider ways to support the purpose of Section 3.

§ 75.5 Definitions.

The terms HUD, Public housing, Public Housing Agency (PHA), and are defined in 24 CFR part 5. The also apply to this part: 1937 Act means the United States Housing Act of 1937, 42 U.S.C. 1437 et seq. Contractor means any entity entering into a contract with:

- (1) A recipient to perform work in connection with the expenditure of public housing financial assistance or for work in connection with a Section 3 project; or
- (2) A subrecipient for work in connection with a Section 3 project.

Labor hours means the number of paid hours worked by persons on a Section 3 project or by persons employed with funds that include public housing financial assistance.

Low-income person means a person as defined in Section 3(b)(2) of the 1937 Act.

Material supply contracts means contracts for the purchase of products and materials, including, but not limited to, lumber, drywall, wiring, concrete, pipes, toilets, sinks, carpets, and office supplies.

Professional services means non-construction services that require an advanced degree or professional licensing, including, but not limited to, contracts for legal services, financial consulting, accounting services, environmental assessment, architectural services, and civil engineering services.

Public housing financial assistance means assistance as defined in § 75.3(a)(1).

Public housing project is defined in 24 CFR 905.108.

Recipient means any entity that receives directly from HUD public housing financial assistance or housing and community development assistance that funds Section 3 projects, including, but not limited to, any State, local government, instrumentality, PHA, or other public agency, public or private nonprofit organization.

Section 3 means Section 3 of the Housing and Urban Development Act of 1968, as amended (12 U.S.C. 1701u).

Section 3 business concern means:

- (1) A business concern meeting at least one of the following criteria, documented within the last six-month period:
 - (i) It is at least 51 percent owned and controlled by low- or very low-income persons;
 - (ii) Over 75 percent of the labor hours performed for the business over the prior three-month period are performed by Section 3 workers; or
 - (iii) It is a business at least 51 percent owned and controlled by current public housing residents or residents who currently live in Section 8-assisted housing.
- (2) The status of a Section 3 business concern shall not be negatively affected by a prior arrest or conviction of its owner(s) or employees.

(3) Nothing in this part shall be construed to require the contracting or subcontracting of a Section 3 business concern. Section 3 business concerns are not exempt from meeting the specifications of the contract.

Section 3 project means a project defined in § 75.3(a)(2).

Section 3 worker means:

- (1) Any worker who currently fits or when hired within the past five years fit at least one of the following categories, as documented:
 - (i) The worker's income for the previous or annualized calendar year is below the income limit established by HUD.
 - (ii) The worker is employed by a Section 3 business concern.
 - (iii) The worker is a YouthBuild participant.
- (2) The status of a Section 3 worker shall not be negatively affected by a prior arrest or conviction.

(3) Nothing in this part shall be construed to require the employment of someone who meets this definition of a Section 3 worker. Section 3 workers are not exempt from meeting the qualifications of the position to be filled.

Section 8-assisted housing refers to housing receiving project-based rental assistance or tenant-based assistance under Section 8 of the 1937 Act.

Service area or the neighborhood of the project means an area within one mile of the Section 3 project or, if fewer than 5,000 people live within one mile of a Section 3 project, within a circle centered on the Section 3 project that is sufficient to encompass a population of 5,000 people according to the most recent U.S. Census.

Small PHA means a public housing authority that manages or operates fewer than 250 public housing units.

Subcontractor means any entity that has a contract with a contractor to undertake a portion of the contractor's obligation to perform work in connection with the expenditure of public housing financial assistance or for a Section 3 project.

Subrecipient has the meaning provided in the applicable program regulations or in 2 CFR 200.93.

Targeted Section 3 worker has the meanings provided in §§ 75.11, 75.21, or 75.29, and does not exclude an individual that has a prior arrest or conviction.

Very low-income person means the definition for this term set forth in section 3(b)(2) of the 1937 Act.

YouthBuild programs refers to YouthBuild programs receiving assistance under the Workforce Innovation and Opportunity Act (29 U.S.C. 3226).

§ 75.9 Requirements

(a) Employment and Training.

- (1) Consistent with existing Federal, state, and local laws and regulations, PHAs or other recipients receiving public housing financial assistance, and their contractors and subcontractors, must make their best efforts to provide employment and training opportunities generated by the public housing financial assistance to Section 3 workers.
- (2) PHAs or other recipients, and their contractors and subcontractors, must make their best efforts described in paragraph (a)(1) of this section in the following order of priority:
 - (i) To residents of the public housing projects for which the public housing financial assistance is expended;
 - (ii) To residents of other public housing projects managed by the PHA that is providing the assistance or for residents of Section 8-assisted housing managed by the PHA;
 - (iii) To participants in YouthBuild programs; and
 - (iv) To low- and very low-income persons residing within the metropolitan area (or nonmetropolitan county) in which the assistance is expended.

(b) Contracting.

- (1) Consistent with existing Federal, state, and local laws and regulations, PHAs and other recipients of public housing financial assistance, and their contractors and subcontractors, must make their best efforts to award contracts and subcontracts to business concerns that provide economic opportunities to Section 3 workers.
- (2) PHAs and other recipients, and their contractors and subcontractors, must make their best efforts described in paragraph (b)(1) of this section in the following order of priority:
 - (i) To Section 3 business concerns that provide economic opportunities for residents of the public housing projects for which the assistance is provided;
 - (ii) To Section 3 business concerns that provide economic opportunities for residents of other public housing projects or Section-8 assisted housing managed by the PHA that is providing the assistance;
 - (iii) To YouthBuild programs; and
 - (iv) To Section 3 business concerns that provide economic opportunities to Section 3 workers residing within the metropolitan area (or nonmetropolitan county) in which the assistance is provided.

§ 75.11 Targeted Section 3 worker for Public Housing Financial Assistance.

(a) Targeted Section 3 worker. A Targeted Section 3 worker for public housing financial assistance means a Section 3 worker who is:

(1) A worker employed by a Section 3 business concern; or

(2) A worker who currently fits or when hired fit at least one of the following categories, as documented within the past five years:

(i) A resident of public housing or Section 8-assisted housing;

(ii) A resident of other public housing projects or Section 8-assisted housing managed by the PHA that is providing the assistance; or

(iii) A YouthBuild participant.

§ 75.13 Section 3 Safe Harbor. *(See Benchmarks on page 13)*

(a) General. Recipients will be considered to have complied with requirements in this part, in the absence of evidence to the contrary if they:

(2) Certify that they have followed the prioritization of effort in § 75.9; and

(3) (2) Meet or exceed the applicable Section 3 benchmark as described in paragraph (b) of this section.

§ 75.15 Reporting. *(See Benchmarks on page 13)*

(a) Reporting of labor hours. (1) For public housing financial assistance, PHAs and other recipients must report in a manner prescribed by HUD:

(i) The total number of labor hours worked;

(ii) The total number of labor hours worked by Section 3 workers; and

(iii) The total number of labor hours worked by Targeted Section 3 workers.

(2) Section 3 workers' and Targeted Section 3 workers' labor hours may be counted for five years from when their status as a Section 3 worker or Targeted Section 3 worker is established pursuant to § 75.31.

(3) The labor hours reported under paragraph (a)(1) of this section must include the total number of labor hours worked with public housing financial assistance in the fiscal year of the PHA or other recipient, including labor hours worked by any contractors and subcontractors that the PHA or other recipient is required, or elects pursuant to paragraph (a)(4) of this section, to report.

(4) PHAs and other recipients reporting under this section, as well as contractors and subcontractors who report to PHAs and recipients, may report labor hours by Section 3 workers, under paragraph (a)(1)(ii) of this section, and labor hours by Targeted Section 3 workers, under paragraph (a)(1)(iii) of this section, from professional services without including labor hours from professional services in the total number of labor hours worked under paragraph (a)(1)(i) of this section. If a contract covers both professional services and other work and the PHA, other recipient, contractor, or subcontractor chooses not to report labor hours from professional services, the labor hours under the contract that are not from professional services must still be reported.

(5) PHAs and other recipients may report on the labor hours of the PHA, the recipient, a contractor, or a subcontractor based on the employer's good faith assessment of the labor hours of a full-time or part-time employee informed by the employer's existing salary or time and attendance based payroll systems, unless the project or activity is otherwise subject to requirements specifying time and attendance reporting.

(b) Additional reporting if Section 3 benchmarks are not met.

If the PHA's or other recipient's reporting under paragraph (a) of this section indicates that the PHA or other recipient has not met the Section 3 benchmarks described in § 75.13, the PHA or other recipient must report in a form prescribed by HUD on the qualitative nature of its Section 3 compliance activities and those of its contractors and subcontractors. Such qualitative efforts may, for example, include but are not limited to the following:

(1) Engaged in outreach efforts to generate job applicants who are Targeted Section 3 workers.

(2) Provided training or apprenticeship opportunities.

(3) Provided technical assistance to help Section 3 workers compete for jobs (e.g., resume assistance, coaching).

(4) Provided or connected Section 3 workers with assistance in seeking employment including: drafting resumes, preparing for interviews, and finding job opportunities connecting residents to job placement services.

(5) Held one or more job fairs.

(6) Provided or referred Section 3 workers to services supporting work readiness and retention (e.g., work readiness activities, interview clothing, test fees, transportation, child care).

(7) Provided assistance to apply for/or attend community college, a four-year educational institution, or vocational/technical training.

- (8) Assisted Section 3 workers to obtain financial literacy training and/or coaching.
- (9) Engaged in outreach efforts to identify and secure bids from Section 3 business concerns.
- (10) Provided technical assistance to help Section 3 business concerns understand and bid on contracts.
- (11) Divided contracts into smaller jobs to facilitate participation by Section 3 business concerns.
- (12) Provided bonding assistance, guaranties, or other efforts to support viable bids from Section 3 business concerns.
- (13) Promoted use of business registries designed to create opportunities for disadvantaged and small businesses.
- (14) Outreach, engagement, or referrals with the state one-stop system as defined in Section 121(e) (2) of the (c) Reporting frequency. Unless otherwise provided, PHAs or other recipients must report annually to HUD under paragraph (a) of this section, and, where required, under paragraph (b) of this section, in a manner consistent with reporting requirements for the applicable HUD program.
- (d) Reporting by Small PHAs. Small PHAs may elect not to report under paragraph (a) of this section. Small PHAs that make such election are required to report on their qualitative efforts, as described in paragraph (b) of this section, in a manner consistent with reporting requirements for the applicable HUD program.

§ 75.17 Contract Provisions.

- (a) PHAs or other recipients must include language in any agreement or contract to apply Section 3 to contractors.
- (b) PHAs or other recipients must require contractors to include language in any contract or agreement to apply Section 3 to subcontractors.
- (c) PHAs or other recipients must require all contractors and subcontractors to meet the requirements of § 75.9, regardless of whether Section 3 language is included in contracts.

§ 75.29 Multiple Funding Sources.

- (a) If a housing rehabilitation, housing construction or other public construction project is subject to Section 3 pursuant to § 75.3(a)(1) and (2), the recipient must follow subpart B of this part for the public housing financial assistance and may follow either subpart B or C of this part for the housing and community development financial assistance. For such a project, the following applies:

(2) The recipients of both sources of funding shall report on the housing rehabilitation, housing construction, or other public construction project as a whole and shall identify the multiple associated recipients. PHAs and other recipients must report the following information:

- (i) The total number of labor hours worked on the project;
- (ii) The total number of labor hours worked by Section 3 workers on the project; and
- (iii) The total number of labor hours worked by Targeted Section 3 workers on the project.

§ 75.31 Recordkeeping.

(b) Recipients must maintain documentation, or ensure that a subrecipient, contractor, or subcontractor that employs the worker maintains documentation, to ensure that workers meet the definition of a Section 3 worker or Targeted Section 3 worker, at the time of hire or the first reporting period, as follows:

(1) For a worker to qualify as a Section 3 worker, one of the following must be maintained:

- (i) A worker's self-certification that their income is below the income limit from the prior calendar year;
- (ii) A worker's self-certification of participation in a means-tested program such as public housing or Section 8-assisted housing;
- (iii) Certification from a PHA, or the owner or property manager of project-based Section 8-assisted housing, or the administrator of tenant-based Section 8-assisted housing that the worker is a participant in one of their programs;
- (iv) An employer's certification that the worker's income from that employer is below the income limit when based on an employer's calculation of what the worker's wage rate would translate to if annualized on a full-time basis; or
- (v) An employer's certification that the worker is employed by a Section 3 business concern.

(2) For a worker to qualify as a Targeted Section 3 worker, one of the following must be maintained:

(i) For a worker to qualify as a Targeted Section 3 worker under subpart B of this part:

(A) A worker's self-certification of participation in public housing or Section 8-assisted housing programs;

(B) Certification from a PHA, or the owner or property manager of project-based Section 8-assisted housing, or the administrator of tenant-based Section 8-assisted housing that the worker is a participant in one of their programs;

(C) An employer's certification that the worker is employed by a Section 3 business concern; or

(D) A worker's certification that the worker is a YouthBuild participant.

Benchmarks

For Public Housing Financial Assistance, the proposed benchmark notification set the benchmarks for the recipient's fiscal year. The proposed benchmark notification provided that recipients would meet the safe harbor in the new § 75.13 by certifying to the prioritization of effort in the new § 75.9 and meeting or exceeding Section 3 benchmarks for total number of labor hours worked by Section 3 workers and by Targeted Section 3 workers. The benchmark for Section 3 workers was set at 20 percent or more of the total number of labor hours worked by all workers paid with public housing financial assistance. The benchmark for Targeted Section 3 workers was set at 5 percent or more of the total number of labor hours worked by all workers paid with public housing financial assistance.

Simply stated, the recipient needs to meet these two benchmarks annually in order to achieve Safe Harbor.

Section 3 Workers Labor Hours = 20%
Total Labor Hours for the Recipient

Section 3 Targeted Workers Labor Hours = 5%
Total Labor Hours for the Recipient

Note: Motivation, Inc. is the Section 3 Consultant for The Housing Authority of the City of Pawtucket and will be launching an electronic method for contractors and the agency to enter their monthly Hours Worked data into their proprietary cloud-based Section 3 Compliance software. That system will mirror the information contained in the Contract Compliance Forms Package with the contractor or agency uploading any new Section 3 self-certification forms directly into the system for review and confirmation by Motivation, Inc. staff. This system is expected to go live on April 1, 2022, but will be tested prior to the live tested with real data from the client and its contractors.

Forms Package Follows on the Next Page

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-CONTRACT COMPLIANCE FORMS PACKAGE-

SECTION 3 NEW RULE

24 CFR Part 75

On November 30, 2020, HUD put into effect a New and Final Section 3 Rule for all recipients. This rule is drastically different from the old rule and therefore, we want everyone to know these requirements and plan accordingly.

Every contractor must ensure this package is included in their sub-contracts. Every sub-contractor must include this package in their lower-tiered sub-contracts.

This new rule exempts all material and supply only agreements. The rule applies to all service related contracts/agreements despite the dollar amount or project duration, except CPA's, Attorneys, Engineers, and Architects.

You should not issue the Individual or Business Self-Certification form(s) until you have secured a qualified contractor or employee respectively. **DO NOT** hand the individual self-certification form to every employee as it may be a waste of time if they were not hired within the past five years and were low-income, public housing, or Section 8 at the time of hire.

Documents included in this package:

✱ New Requirements Summary	15
✱ Monthly Reporting Instructions	16
✱ Section 3 Business Self-Certification Forms	17
✱ Section 3 Individual Self-Certification Forms	18
✱ Hours Worked Reporting Form	19
✱ Acknowledgment and Affidavit Form	20

The Acknowledgement and Affidavit must be executed and returned by Every Contractor.

The Housing Authority of the City of Pawtucket
Annual "Section 3 Benchmarks" Requirement Summary

- ✱ Twenty (20) percent or more of the total number of labor hours worked by all workers employed with public housing financial assistance in a HA's fiscal year are Section 3 workers; and
- ✱ Five (5) percent or more of the total number of labor hours worked by all workers employed with public housing financial assistance in a HA's fiscal year are Section 3 workers;
- ✱ There are No specific hiring or contracting goals under this new rule.
- ✱ There is No Section 3 Business Preference under the new rule and No points awarded for being a Section 3 Business.
- ✱ The rule does not require the hiring or contracting of any person or business that is not fully qualified to perform the work.

The two new categories of Section 3 are now referred to as:

- ✱ **Section 3 Worker** - Any low or very low-income persons residing in the housing authority MSA
- ✱ **Targeted Section 3 Worker** - Public Housing, Voucher Holder, YouthBuild participant

Contractors will provide these three (3) data sets to the The Housing Authority of the City of Pawtucket's Section 3 Consultant within 40 days of the month after the hours have been worked by EVERY person that worked directly on the contract. (**Ex:** April data is required by June 10th) No back-office staff hours are counted:

- ✱ Total Hours Worked by all workers
- ✱ Total Hours Worked by Section 3 Workers (Individual Self-Certification Form Required)
- ✱ Total Hours worked by Targeted Section 3 Workers (Individual Self-Certification Form Required)

There are new definitions of how to be a Section 3 Business Concern:

- ✱ It is at least 51 percent owned by low- or very low-income persons; with businesses at least 6 months old
- ✱ Over 75 percent of the labor hours performed for the business are performed by low- or very low-income persons; or (Based on the prior 90 days of full business payrolls)
- ✱ It is a business at least 51 percent owned by current public housing residents or residents who currently live in Section 8-assisted housing, with businesses at least 6 months old

MONTHLY REPORTING INSTRUCTIONS

STEP ONE

Enter your company name and the name of the contract or task you are performing in the appropriate lines at the top of the form.

STEP TWO

Determine which workers qualify as Section 3 by having each complete a **Section 3 Individual Low-Income Person Self-Certification Form**. This form is submitted once per Section 3 employee or those that believe they meet the definition of a Section 3 employee.

The form is to be completed by the individual and stress to the employee that the form is Voluntary:

1. Complete contact info section
2. Check the box that describes your situation
3. Sign and date the form
4. Complete the employer information
5. Return to your employer

STEP THREE

After determining which workers are Section 3, determine their classification based on what they check in the box on the form as **Non-Targeted** or **Targeted**:

Non-Targeted are those Section 3 income-qualified workers who are low-income and reside in the MSA.

Targeted are those Section 3 income-qualified workers who are low-income and reside in public housing, Section 8 or YouthBuild

STEP FOUR

Enter the monthly dates of reporting on the first line, then proceed as follows:

1. Enter total hours worked by ALL contract or project level staff with exceptions as noted above*
2. Enter total hours worked by all Section 3 staff **Non-Targeted**
3. Enter total hours worked by all Section 3 staff **Targeted**

List **ONLY** the individual names of the workers who have self-certified as Section 3 (**Non-Targeted** and **Targeted**) along with their total hours for this months report only.

Submit the Section 3 Hours Worked Reporting Form on a monthly basis to the contact person noted on your reporting form above.

SECTION 3 BUSINESS

Voluntary Self-Certification Form

IN COMPLIANCE WITH SECTION 3 OF THE HUD ACT OF 1968 UPDATED 24 CFR PART 75 11/30/2020

The purpose of this form is to comply with Section 3 of the HUD Act of 1968 Business Certification requirements. To count as a Section 3 Business your company/firm must meet one of the listed categories below. Each category will require additional documentation to support the election. You must provide that supporting documentation with this form properly completed to be confirmed as a Section 3 business. If this form is submitted without the required supplemental data, your certification will not be processed.

CATEGORY	DOCUMENTATION REQUIRED	YOUR ELECTION
a business at least 51 percent owned by low- or very low-income persons;	Proof of ownership showing all owners and their percentages and a completed Section 3 Individual Self-Certification form for all low- and very low-income owners	← I N I T I A L ← H E R E ←
Over 75 percent of the labor hours performed for the business are performed by low- or very low-income persons; or	Provide the last 90 days full payrolls for the entire company, make a list of the names from the payrolls of the Section 3 workers, and provide a completed Section 3 Individual Self- Certification for all low- and very low-income workers you list	
It is a business at least 51 percent owned by current public housing residents or residents who currently live in Section 8-assisted housing.	Proof of ownership showing all owners and their percentages and a Section 3 Individual Self-Certification form for all public housing and/or Section 8 owners	

I hereby certify to the US Department of Housing and Urban Development (HUD) that all of the information on this form is true and correct. I attest under penalty of perjury that my business meets the elected definition and understand proof of this information may be requested. If found to be inaccurate, I understand that I may be disqualified as a certified Section 3 business.

Full Name: _____

Company Name: _____

Street Address: _____

City: _____ State: _____ Zip: _____

Signature: _____

Date: _____

SECTION 3 INDIVIDUAL LOW-INCOME PERSON

Voluntary Self-Certification Form

IN COMPLIANCE WITH SECTION 3 OF THE HUD ACT OF 1968 UPDATED 24 CFR PART 75 11/30/2020

The purpose of this form is to comply with Section 3 of the HUD Act of 1968 self-certification income requirements. To count as a Section 3 individual, any legal resident of the United States annual income must not exceed the HUD income limits for the year before they were hired, or, the individual's current year income annualized for the year they are being confirmed as low-income.

Print Name

Phone

Email

Address

City

State

Zip

To qualify as a Section 3 Person, you must meet one of the standards in the brackets below and your individual annual income must not exceed the number in the box below.

Check only one box below that describes your situation:

☐ I am a Public Housing Resident, Section 8 assists me with my rent, or I am a current YouthBuild participant

☐ I receive No HUD support, but I am low-income and live in the Pawtucket MSA

My Individual Annual Income does not exceed: \$48,450*

I hereby certify to the US Department of Housing and Urban Development (HUD) that all of the information on this form is true and correct. I attest under penalty of perjury that my total income is as shown above, and that proof of this information may be requested. If found to be inaccurate, I understand that I may be disqualified as an applicant and/or a certified Section 3 individual. Finally, I authorize including my name on a list of Section 3 Residents seeking employment and to include my contact information so that contractors may contact me directly for any employment opportunities.

Signature: _____

Date: _____

Income Limits website: <https://www.huduser.gov/portal/datasets/il/il2021/2021summary.odn>

SECTION 3

Hours Worked Reporting Form

IN COMPLIANCE WITH SECTION 3 OF THE HUD ACT OF 1968 UPDATED 24 CFR PART 75 11/30/2020

The purpose of this form is to comply with Section 3 of the HUD Act of 1968 tracking of hours worked by all person's employed by _____ (company name) on the _____ contract including those meeting the Section 3 income requirements as low- or very low-income.

Section 3 Employees are now defined to as:

Section 3 Workers - are those Section 3 income-qualified workers who are low-income and reside in the MSA.

Targeted Section 3 Workers - are those Section 3 income-qualified workers who are low-income and reside in public housing, Section 8 or YouthBuild.

If your company employs any person you believe is low income now or was when they were hired within the past five years, please have them complete the **SECTION 3 INDIVIDUAL LOW-INCOME PERSON SELF-CERTIFICATION FORM** and return it immediately.

All hours worked by everyone on the project must be reported monthly to:

Section 3 Compliance Consultant:

Motivation, Inc.

Cecelia M. Swiney-Horne, Compliance Manager

cswiney@motivation-inc.com

678-350-5460

Total Hours Worked by non-Section 3 staff

Total hours worked by all **Non-targeted** Section 3 employees

Total hours worked by all **Targeted** Section 3 employee

Please list the names and hours worked by each Section 3 Worker individually below or on a separate sheet.

First Name	Last Name	Total Hours This Period

Are You Attaching any New Contractor or Resident Self-Certification Forms to this month's report? ____ Yes or ____ No

Bidders and Respondents Solicitation

Section 3 New Rule Contractor Acknowledgement and Affidavit

(Return this form with your Bid/Quote/Response)

Company Name: _____ Solicitation #: _____

I hereby certify to the US Department of Housing and Urban Development (HUD) and The Housing Authority of the City of Pawtucket that I have read all of the information in this policy package and agree to follow the requirements for complying with the order of prioritization in 75.9 and reporting of all labor hours associated with my contract as required. I further understand that failure to comply with these requirements will cause my payments to be held and not processed or not released until I come into full compliance with this policy.

Monthly, I will be required to provide these data points for all contract staff working directly on the contract not including any back-office staff:

- ☐ Total Hours Worked by all employees (Section 3 and regular employees)
- ☐ Total Hours Worked by All **Targeted Section 3 employees** (Public Housing, Section 8, and YouthBuild)
- ☐ Total Hours Worked by All **Non-Targeted Section 3 employees** (Low Income persons residing in the Metropolitan Statistical Area)

You are required to enter the names and hours worked by each Section 3 employee individually.

Signature: _____ Print: _____ Date: _____

STATE OF _____ in _____ COUNTY)

I, the undersigned authority, a Notary Public in and for said County and in said State, hereby certify that, _____, whose name as _____ of _____ is signed to the foregoing conveyance and who is known to me, acknowledged before me on this day, that, being informed of the contents of the foregoing conveyance, he/she, in his/her capability as _____ (Title), and with full authority, executed the same voluntarily for and as the act of said corporation.

Given under my hand and official seal, this the _____ day of _____, 20_____.

Notary Public

My Commission Expires _____

Pawtucket Housing Authority

2022 Holiday Schedule

<u>Day</u>	<u>Date</u>	<u>Holiday</u>
Monday	01/17/2022	Martin Luther King
Monday	02/21/2022	President's Day
Monday	05/30/2022	Memorial Day
Monday	07/04/2022	Independence Day
Monday	08/8/2022	Victory Day
Monday	09/05/2022	Labor Day
Monday	10/10/2022	Columbus Day
Friday	11/11/2022	Veteran's Day
Wednesday	11/23/2022	Thanksgiving Eve - 1/2 Day
Thursday	11/24/2022	Thanksgiving Day
Friday	11/25/2022	Day after Thanksgiving
Friday	12/23/2022	Christmas Eve - 1/2 Day
Monday	12/26/2022	Christmas Day
Friday	12/30/2022	New Year's Eve - 1/2 Day

GENERAL CONDITIONS

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PART I

ARTICLE 1: CONTRACT AND CONTRACT DOCUMENTS

The drawings, specifications, and addenda enumerated in Article 1 of the Special Conditions, the Advertisement for Bids, the Information for Bidders, and the Bid Proposal as accepted by the OWNER, shall be binding upon the parties to this Agreement as if fully set forth therein. Whenever the terms "Contract Documents" are used, it shall mean and include this Contract, Special Conditions, General Conditions, Information for Bidders, the Bid Proposal, Addenda, the Technical Specifications and the Drawings. The OWNER shall interpret his own requirements. In case of conflict or inconsistency between the provisions of the signed portions of the Contract Documents and those of the specifications, the provisions of the signed portions shall govern.

ARTICLE 2: DEFINITIONS

The following terms are defined as follows. Note, the list is not all inclusive and interpretation of other terms will be made by the Owner's representative as needed:

- A. CHANGE ORDER - A written order to the Contractor authorizing an addition, deletion or revision in the work within the general scope of the Contract Documents, or authorizing an adjustment in the Contract Price or Contract Time.
- B. CONTRACT DOCUMENTS - The Contract, including Advertisement for Bids, Information for Bidders, Bid, Bid Bond, Agreement, Payment Bond, Performance Bond, General Conditions, Special Conditions, Technical Specifications, Notice of Award, Notice to Proceed, Change Order, Drawings, and Addenda.
- C. CONTRACTOR - A person, firm or corporation with whom the Contract is made by the OWNER.
- D. DRAWINGS - The part of the Contract Documents which show the characteristics and scope of the work to be performed and which have been prepared by the Engineer.
- E. ENGINEER - Shall mean for the purpose of this Contract the firm of Resource Control Associates, Inc. who shall act as the authorized representative of the OWNER whenever the authorized representative of the OWNER whenever reference is made for such authorization.
- F. FIELD ORDER - A written order effecting a change in the work not involving an adjustment in the Contract Price or an extension of the Contract Time, issued by the Engineer to the Contractor during construction.
- G. NOTICE OF AWARD - The written notice of the acceptance of the Bid from the OWNER to the successful Bidder.
- H. NOTICE TO PROCEED - Written communication issued by the OWNER to the Contractor authorizing him to proceed with the work and establishing the date of commencement of the work.
- I. OWNER - Shall mean, for the purpose of this Contract, **Pawtucket Housing Authority** as elsewhere defined in the Agreement section of the Contract Documents.
- J. RESIDENT PROJECT REPRESENTATIVE - The authorized representative of the OWNER who is assigned to the Project Site or any part thereof.
- K. SHOP DRAWINGS - All drawings, diagrams, illustrations, brochures, schedules and other data which are prepared by the Contractor, a Subcontractor, Manufacturer, Supplier or Distributor, which illustrates how specific portions of the work shall be fabricated or installed.
- L. SPECIFICATIONS (TECHNICAL SPECIFICATIONS) - A part of the Contract Documents consisting of written descriptions of a technical nature of materials, equipment, construction systems, standards and workmanship.

- M. SUBCONTRACTOR - A person, firm, or corporation supplying labor and materials, or only labor, for work at the site of the project; for, and under a separate Contract or Agreement with the Contractor.
- N. SUBSTANTIAL COMPLETION - That date as certified by the Engineer when the construction of the Project or the specified part thereof is sufficiently completed, in accordance with the Contract Documents, so that the Project or specified part can be utilized for the purpose for which it is intended.
- O. WORK ON THE PROJECT - Work to be performed at the location of the project, including the transportation of materials and supplies to or from the site by employees of the Contractor or any Subcontractor.

ARTICLE 3: QUANTITIES OF ESTIMATE

Whenever the estimated quantities of work to be done and materials to be furnished under this Contract are shown in any of the documents including the Bid Proposal, they are given for use in comparing bids and the right is especially reserved by the OWNER to increase or diminish them as may be deemed necessary or desirable by the OWNER. Such increases or decreases shall in no way affect this Contract, nor shall any such increases or decreases give cause for claims or liabilities for damages.

ARTICLE 4: CONFLICTING CONDITIONS

Any provisions of these General Conditions which may be in conflict or inconsistent with any of the articles in the Special Conditions shall be void to the extent of such conflict or inconsistency.

ARTICLE 5: PROVISIONS OF LAW DEEMED INSERTED

Each and every provision of law and clause required by law to be inserted in this Contract shall be deemed to be inserted herein and the Contract shall be read and enforced as though it were included herein, and if through mistake or otherwise, any such provision is not inserted, or is not correctly inserted, the Contract shall forthwith be physically amended to make such insertion or correction.

ARTICLE 6: NOTICE AND SERVICE THEREOF

The service of any notice, letter, or other communication shall be deemed to have been made by one of the contracting parties on the other party to the Contract when such letter, notice or other communication has been delivered to the legal office address of the addressee, by a duly authorized representative of the address or in person, or when such notice, letter, or other communication has been deposited in any regularly maintained mailbox of the United States Post Office, in a properly addressed, postpaid wrapper. The date of such service shall be considered to be the date of such personal delivery or mailing.

The address of the Contractor noted in his bid and/or the address of his field office on or near the site of work shall be considered his legal address for the purposes as set forth above.

ARTICLE 7: GRATUITIES

- A. If it is found, after notice and hearing, by the OWNER that gratuities (in the form of entertainment, gifts or otherwise) were offered or given by the Contractor, or any agent or representative of the Contractor, to any official, employee or agent of the Owner, or of the State, with a view toward securing a contract or securing favorable treatment with respect to the awarding or amending, or the making of any determinations with respect to the performance of this Contract, the Owner, may by written notice to the Contractor, terminate the right of the Contractor to proceed under

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this Contract or may pursue each other's rights and remedies provided by law or under this Contract: Provided, that the existence of the facts upon which the Owner makes such findings shall be in issue and may be reviewed in proceedings pursuant to the "Remedies" clause of this Contract.

- B. In the event this Contract is terminated as provided in Paragraph (a) hereof, the Owner shall be entitled (l) to pursue the same remedies against the Contractor as it could pursue in the event of a breach of the Contract by the Contractor, and (a) as a penalty in addition to any other damages to which it may be entitled by law, to exemplary damages in an amount (as determined by the Owner) which shall be not less than three nor more than ten times the cost incurred by the Contractor in providing any such gratuities to any such officer or employee.

ARTICLE 8: COVENANT AGAINST CONTINGENT FEES

The Contractor warrants that no person or selling agency has been employed or retained to solicit or secure this Contract upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee, excepting bona fide employees or bona fide established commercial or selling agencies maintained by the Contractor for the purpose of securing business. For breach or violation of this warranty, the Owner shall have the right to annul this Contract without liability or in its discretion to deduct from the Contract Price or consideration, or otherwise recover, the full amount of such commission, percentage, brokerage, or contingent fee.

ARTICLE 9: REMEDIES

Except as may be otherwise provided in this Contract, all claims, counterclaims, disputes and other matters in question between the OWNER and the Contractor arising out of or relating to this agreement or the breach thereof will be decided in a court of competent jurisdiction within the State in which the Owner is located.

PART II

The rights and obligations of the Contractor under this Contract shall include, but not be limited to the following:

ARTICLE 10: REPRESENTATIONS OF THE CONTRACTOR

The Contractor represents and warrants:

- A. That he is financially solvent and that he is experienced and competent to perform the type of work required under this Contract and that he is able to furnish the plant materials, supplies, or equipment that may be necessary to perform the work as specified.
- B. That he is familiar with all Federal, State and municipal laws, ordinances, orders, and regulations which may in any way affect the project work, or the employment of persons thereon, including but not limited to any special acts relating to the work or to the project of which he is a part.
- C. That such temporary and permanent work required by the Contract Documents to be done by him will be satisfactorily constructed and can be used for the purpose for which it was intended and that such construction will not injure any person or damage property.
- D. That he has carefully examined the drawings, specifications, and addenda, if any, and the site of the work and that from his own investigations, he has satisfied himself as to the nature and location of the work, the character of equipment and other facilities needed for the performance of the work, the general and local conditions, and all other items that may affect the work.
- E. That he is aware of the hazards involved in the work and the danger to life and property both evident and inherent and that he will conduct the work in a careful and safe manner without

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- injury to persons or property.
- F. That he prepared and submitted his bid for the project with no collusion with other contractors or bidders.

ARTICLE 11: CONTRACTOR'S OBLIGATIONS

The Contractor shall perform all work in a good workmanlike manner, and in accordance with the plans and specifications and any supplements thereto, and according to any directions or orders given by the OWNER. He shall furnish all supplies, materials, facilities, equipment, and means necessary or proper to perform and complete the work required by this Contract. He shall furnish, erect, maintain, and remove any construction plant or temporary work as may be required. He alone shall be responsible for the safety, efficiency, and adequacy of his plant, appliances, and methods, and for any damage which may result from their failure or their improper construction, maintenance, or operation. The Contractor shall observe, comply with, and be subject to all terms, conditions, requirements, and limitations of the Contract and Specifications and shall do, carry on, and complete the entire work to the satisfaction of the OWNER.

The Contractor shall be solely responsible for all the work and shall provide all precautionary measures necessary for preventing injury to persons or damage to property. All injury or damage of whatever nature resulting from the work or resulting to persons, property, or the work during its progress, from whatever cause, shall be the responsibility of the Contractor.

The Contractor shall hold the OWNER and Engineer, or their duly authorized agents, harmless and defend and indemnify them against damages or claims for damages due to injuries to persons or property arising out of the execution of the project work, and for damages to materials furnished for the work, for infringement of inventions, patents, and patent rights used in doing the work, and for any act, omission, or instance of neglect by the Contractor, his agents, employees, or subcontractors.

The Contractor shall bear all losses resulting to him, including but not limited to losses sustained on account of the character, quality, or quantity of any part of the work, or all parts of the work, or because the nature of the conditions in or on the project site are different from what was estimated or indicated, or on account of the weather, elements, or other causes.

ARTICLE 12: TIME FOR COMPLETION AND LIQUIDATED DAMAGES

- A. It is hereby understood and mutually agreed by and between the Contractor and the OWNER that the date of beginning and the time of completion of the work are as specified in this Contract; and it is further mutually understood and agreed that the work embraced in this Contract shall be commenced on a date to be specified in the Notice to Proceed.
- B. The Contractor agrees that said work shall be prosecuted regularly, diligently, and uninterruptedly at such rate of progress as will insure full completion thereof within the time specified, and further, that time of completion as agreed upon is reasonable, taking into consideration the average climatic range and usual industrial conditions prevailing in this locality.
- C. If the said Contractor shall neglect, fail or refuse to complete the work within the time herein specified, or any proper extension thereof granted by the OWNER, then the Contractor does hereby agree, as a partial consideration for the awarding of this Contract, to pay to the OWNER the amount of three hundred dollars (\$300.00), not as a penalty, but as liquidated damages for such Breach of Contract as hereinafter set forth for each and every calendar day that the Contractor shall be in default after the time stipulated in the Contract for completing the work.
- D. The said amount is fixed and agreed upon by and between the OWNER and the Contractor, and said amount is agreed to be the amount of damages the OWNER would sustain in such an event as the above-mentioned, and said amount shall be retained from time to time by the OWNER from current periodical payments.
- E. It is further agreed that time is of the essence in each and every portion of the Contract and

Specifications; where in a definite and certain length of time is fixed for the performance of any act whatsoever; and where under the Contract an additional time is allowed for the completion of any work, the new time limit fixed by such extension shall be by the Contractor and shall not be charged when the delay in completion of the work is due to:

1. Any preference, priority, or allocation order duly issued by the government, subsequent to the date of the Contract.
 2. Unforeseeable causes beyond the control and without the fault or negligence of the Contractor, including, but not restricted to acts of God, or of the public enemy, act of the OWNER, acts of another contractor, fires, floods, epidemics, strikes, and unusually severe weather.
 3. Any delays of subcontractors or suppliers approved by the OWNER.
- F. Provided further that the Contractor shall within ten days (10) from the beginning of the delay, unless the OWNER shall grant a further period of time prior to the date of final settlement of the Contract, notify the OWNER in writing of the causes of the delay. The OWNER shall ascertain the facts and extent of the delay and notify the Contractor within a reasonable time of its decision in the matter. In the event of a favorable decision, the Contractor will be entitled only to a modification in the contract time and will not be entitled to a modification in contract price.

ARTICLE 13: TERMINATION FOR DEFAULT; DAMAGES FOR DELAY; TIME EXTENSIONS

- A. If the Contractor refuses or fails to prosecute the work, or any separable part thereof, with such diligence as will insure its completion within the time specified in this Contract, or any extension thereof, or fails to complete said work within such time, the OWNER may, by written notice to the Contractor, terminate his right to proceed with the work or such part of the work as to which there has been a delay. In such event, the OWNER may take over the work and prosecute the same to completion, by Contract or otherwise, and may take possession of and utilize in completing the work such materials, appliances, and plant as may be on the site of the work and necessary therefore. Whether or not the Contractor's right to proceed with the work is terminated, he and his sureties shall be liable for any damage to the OWNER resulting from his refusal or failure to complete the work within the specified time.
- B. If fixed and agreed liquidated damages are provided in the Contract and if the OWNER so terminates the Contractor's right to proceed, the resulting damage will consist of such liquidated damages until such reasonable time as may be required for final completion of the work together with any increased costs occasioned the OWNER in completing the work.
- C. If fixed and agreed liquidated damages are provided in the Contract and if the OWNER does not so terminate the Contractor's right to proceed, the resulting damage will consist of such liquidated damages until the work is completed or accepted.
- D. The Contractor's right to proceed shall not be so terminated nor the Contractor charged with resulting damage if:
 1. The delay in the completion of the work arises from causes other than normal weather beyond the control and without the fault or negligence of the Contractor, including but not restricted to, acts of God, acts of the public enemy, acts of the OWNER in either its sovereign or contractual capacity acts of another contractor in the performance of a Contract with the OWNER, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes, unusually severe weather, or delays of subcontractors or suppliers arising from causes other than normal weather beyond the control and without the fault or negligence of both the Contractor and such subcontractors or suppliers; and
 2. The Contractor, within 10 days from the beginning of any such delay (unless the OWNER grants a further period of time before the date of final payment under the Contract), notifies the OWNER in writing of the causes of delay. The OWNER shall ascertain the

facts and the extent of the delay and extend the time for completing the work when, in his judgment, the findings of fact justify such an extension and his findings of fact shall be final and conclusive on the parties, subject only to appeal as provided in the Remedies clause of this Contract. In the event of a favorable decision, the Contractor will be entitled only to a modification in the contract time and will not be entitled to a modification in contract price.

- E. If, after notice of termination of the Contractor's right to proceed under the provisions of this clause, it is determined for any reason that the Contractor was not in default under the provisions of this clause, or that the delay was excusable under the provisions of this clause, the rights and obligations of the parties shall, if the Contract contains a clause providing for termination for convenience of the OWNER, be the same as if the notice of termination has been issued pursuant to such clause. If, in the foregoing circumstances, this Contract does not contain a clause providing for termination for convenience of the OWNER, the Contract shall be equitably adjusted accordingly; failure to agree to any such adjustment shall be subject to the Remedies clause of this Contract.
- F. The rights and remedies of the OWNER provided in this clause are in addition to any other rights and remedies provided by law or under this Contract.
- G. As used in paragraph (d) (1) of this clause, the term, "Subcontractors or suppliers", means subcontractors or suppliers at any tier.

ARTICLE 14: CONTRACT SECURITY

The Contractor shall furnish a surety bond in an amount equal to at least one hundred percent (100%) of the Contract Price as security for the faithful performance of the Contract, and for the payment of all persons performing labor on the project under this Contract and furnishing materials, equipment and all other incidentals in connection with this Contract. This Surety on such a bond shall be a duly authorized surety company satisfactory to the OWNER and the cost of the same shall be paid by the Contractor. Prior to the starting of any work, the bonds must be approved by the OWNER.

ARTICLE 15: ADDITIONAL OR SUBSTITUTE BOND

If at any time the OWNER, for justifiable cause, shall become dissatisfied with any Surety or Sureties holding payment bonds, the Contractor shall, within five (5) days after notice from the OWNER to do so, substitute an acceptable bond or bonds in such form and signed by such other Surety as may be satisfactory to the OWNER. The premiums of such bonds shall be paid by the Contractor. No further payments will be deemed due, nor will be made until the new Surety or Sureties shall have furnished such an acceptable bond to the OWNER.

ARTICLE 16: INDEMNITY

The Contractor shall at all times indemnify and save harmless the OWNER and the Engineer, their servants and agents, from any and all claims and from any suits, litigation, damages, losses or the like arising out of injuries sustained or alleged to have been sustained by any persons or property in connection with the contract work, caused in whole or in part by acts or omissions of the Contractor, his subcontractors, material men, or anyone directly or indirectly connected with the contract work.

ARTICLE 17: SUPERINTENDENTS BY THE CONTRACTOR

The Contractor shall give the work the constant attention necessary to facilitate the progress thereof and shall cooperate with the OWNER in every possible way.

At the site of the work, the Contractor shall, at all times, employ a construction superintendent who shall have full authority to act for the Contractor. It is understood that the employment of such representative shall be acceptable to the OWNER and shall be such a person as can be continued in the capacity for the duration of the Contract, unless he ceases to be on the Contractor's payroll.

ARTICLE 18: CONTRACTOR TO LAY OUT HIS OWN WORK

The OWNER will establish such general reference points as in his judgment will enable the Contractor to proceed with the work. The Contractor, at his own expense, shall provide all materials and equipment and such qualified helpers as the OWNER may require for setting the general reference points and shall protect and preserve all stakes, benches, and other markers used to identify the reference points. The Contractor shall lay out all the Contract work from the above and shall be responsible for the accuracy of all lines, grades and measurements.

ARTICLE 19: COMPETENT HELP TO BE EMPLOYED

The Contractor shall employ experienced foremen, craftsmen and other workmen competent in the work in which they are to be engaged.

ARTICLE 20: PERMITS AND REGULATIONS

The Contractor shall procure and pay for all permits, licenses, and approvals necessary for the execution of the Contract work.

The Contractor shall comply with all laws, regulations, ordinances, orders and rules relating to the performance of the work, the protection of the adjacent property, and the maintenance of passageways, guard fences, and other protective facilities.

ARTICLE 21: CONSTRUCTION SCHEDULE AND PERIODIC ESTIMATES

- A. Within five (5) days after the date of "Notice to Proceed", the Contractor shall deliver to the OWNER an estimated construction progress schedule in a form satisfactory to the OWNER, showing the proposed dates of commencement and completion of each of the various subdivisions of work required under the Contract Documents and the anticipated amount of each monthly payment that will become due the Contractor in accordance with the progress schedule.
- B. The Contractor shall also furnish on forms to be supplied by the OWNER:
 1. A detailed estimate, giving a complete breakdown of the contract price; and
 2. Periodic itemized estimates of the work done for the purpose of making partial payments thereon.
- C. The Contractor shall perform the work of this Contract to conform with the schedule as approved by the OWNER, except that the OWNER reserves the right to amend and alter the construction schedule at any time, in a manner which is deemed to be in the best interest of the OWNER to do so. The Contractor shall arrange his work to conform to this schedule as it may be revised from time to time by the OWNER, at no additional expense to the OWNER.
- D. The Contractor shall notify the OWNER immediately of any circumstances, which may affect the performance of the work in accordance with the current construction schedule.

ARTICLE 22: SEQUENCE OF THE WORK

The Contractor shall be required to prosecute his work in accordance with a schedule prepared by him in advance in accordance with additional requirements specified herein and approved by the OWNER. This scheduling shall state the methods and shall forecast the times of doing each portion of the work. Before beginning any portion of the work, the Contractor shall give the OWNER advance notice and ample time for making necessary preparations.

ARTICLE 23: AUDIT; ACCESS TO RECORDS

The Contractor shall maintain books, records, documents and other evidence directly pertinent to performance of work under this Contract in accordance with generally accepted accounting principles and practices. The Contractor shall also maintain the financial information and data used by the Contractor in the preparation or support of the cost submission or for any negotiated contract or change order and a copy of the cost summary submitted to the OWNER. The Contractor will provide proper facilities for such access and inspection.

Audits conducted pursuant to this Provision shall be in accordance with generally accepted auditing standards and established procedures and guidelines of the reviewing or audit agency (ies).

The Contractor agrees to the disclosure of all information and reports resulting from the access to records pursuant to paragraphs above, to any of the agencies referred to above, provided that the Contractor is afforded the opportunity for an audit exist conference, and an opportunity to comment and submit any supporting documentation on the pertinent portions of the draft audit report that the final audit report will include written comments of reasonable length, if any, of the Contractor.

Records under paragraphs above shall be maintained and made available during performance on work under this Contract and until three years from the date of final payment for the project. In addition, those records which related to any "Dispute", appeal agreement, or litigation, or the settlement of claims arising out of such performance, or costs or items to which an audit exception has been taken, shall be maintained and made available until three years after the date of resolution of such appeal, litigation, claim or exception.

ARTICLE 24: REPORTS, RECORDS AND DATA

The Contractor and each of his subcontractors, shall submit to the OWNER such schedules of quantities, and costs, progress schedules, payrolls, reports, estimates, records and other data as the OWNER may request concerning the work performed or to be performed under this Contract.

ARTICLE 25: DIFFERING SITE CONDITIONS

- A. The Contractor shall promptly and before such conditions are disturbed, notify the OWNER in writing of: (1) subsurface or latent physical conditions at the site differing materially from those indicated in this Contract, or (2) unknown physical conditions at the site, of any unusual nature, differing materially from those ordinarily encountered and generally recognized as inhering in work of the character provided for in this Contract. The OWNER shall promptly investigate the conditions and if he finds that such conditions do materially so differ and cause an increase or decrease in the Contractor's cost of, or the time required for, performance of any of the work under this Contract, whether or not changed as a result of such conditions, an equitable adjustment shall be made and the Contract modified in writing accordingly.
- B. No claim of the Contractor under this clause shall be allowed unless the Contractor has given the notice required in (a) above; provided, however, the time prescribed therefore may be extended by the OWNER.

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- C. No claim by the Contractor for an equitable adjustment hereunder shall be allowed if asserted after final payment under this Contract.

ARTICLE 26: PAYMENTS BY THE CONTRACTOR

The Contractor shall pay:

- A. For all transportation and utility services not later than the 20th day of each calendar month following that in which services were rendered.
- B. For all materials, tools, and other expendable equipment to the extent of 90 percent of the cost thereof, not later than the 20th day of the calendar month following that in which such items were delivered to the site of work, and the balance of the cost thereof not later than the 30th day following the completion of that part of the work in or on which such material tools, or equipment are incorporated or used.
- C. To each of his subcontractors, not later than the 5th day following each payment to the Contractor, the respective amounts allowed the Contractor on account of the work performed by his subcontractors to the extent of such subcontractor's interest therein.
- D. Payment for trucking or materials furnished - Withholding of sums due. A contractor or subcontractor on public works authorized by a proper authority shall pay any obligation or charge for trucking and material which have been furnished for the use of such contractor or subcontractor, in connection with the public works being performed by him, within ninety (90) days after such obligation or charge is incurred or the trucking service has been performed or the material has been delivered to the site of the work, whichever is later. When it is brought to the notice of the proper authority in a city or town, or the proper authority in the state having supervision of such contract, that such obligation or charge has not been paid by the contractor or subcontractor, the proper authority may deduct and hold for a period not exceeding sixty (60) days, from sums of money due to the contractor or subcontractor, the equivalent amount of such sums certified by a trucker or material man creditor as due him, as provided in this section, and which the proper authority determines is reasonable for trucking performed or materials furnished for such public works.
- E. Ascertainment of prevailing rate of wages and other payments - Specification of rate in call for bids and in contract. Before awarding any contract for public works to be done, the proper authority shall ascertain from the director of labor the general prevailing rate of the regular, holiday and overtime wages paid and the general prevailing payments on behalf of employees only, to lawful welfare, pension, vacation, apprentice training and educational funds (payments to said funds must constitute an ordinary business expense deduction for federal income tax purposes by contractors) in the city, town, village or other appropriate political subdivision of the state in which the work is to be performed, for each craft, mechanic, teamster, laborer or type of workman needed to execute the contract for the public works, and shall specify in the call for bids for the contract and in the contract itself the general prevailing rate of the regular, holiday, and overtime wages paid and the payments on behalf of employees only, to such welfare, pension vacation, apprentice training and education funds existing in the locality for each craft, mechanic, teamster, laborer or type of workman needed to execute the contract or work.
 - 1. Every call for bids for every contract in excess of one thousand dollars (\$1,000), to which the state of Rhode Island or any political subdivision thereof is party, for construction, buildings or public works of the state of Rhode Island or any political subdivision thereof, and which requires or involves the employment of employees shall contain a provision stating the minimum wages to wages that will be determined by the director of labor to be prevailing character similar to the contract work in the city, town, village, or which the work is to be performed; and every contract shall contain a stipulation that the

contractor or his subcontractor shall pay all unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account, the full amounts those stated in the call for bids, regardless of any contractual relationships which may be alleged to exist between the contract or subcontractor and such employees and that the scale of wages to be paid shall be posted by the contractor in a prominent and easily that there may be withheld from the contractors so much of accrued payments as may be considered necessary to pay to such employees employed by the contractor or any subcontractor on the work difference between the rates of wages required by the contract to be paid said employees on the work and the rates or wages received by such employees on the work and the rates of wages received by such employees and not refunded to the contractor, subcontractors, or their agents.

2. The terms "wages", "scale of wages", "wage rates", "minimum wages", and "prevailing wages" shall include:
 - a. the basic hourly rate of pay; and
 - b. the amount of:
 1. the rate of contribution made by a contractor or subcontractor to a trustee or to a third person pursuant to a fund, plan, or program; and
 2. The rate of costs to the contractor or subcontractor which may be reasonably anticipated in providing benefits to employees pursuant to an enforceable commitment to carry out a financially responsible plan or program which was communicated in writing to the employees affected, for medical or hospital care, pensions or retirement or death, compensation for injuries or illness resulting from occupational activity, or insurance to provide any of the foregoing, for unemployment benefits, life insurance, disability and sickness insurance, or accident insurance, for vacation and holiday pay, for defraying costs of apprenticeship or other similar programs, or for other bona fide fringe benefits but only where the contractor or subcontractor is not required by other federal, state, or local law to provide any of such benefits: Provided, that the obligation of a contractor or subcontractor to make payment in accordance with the prevailing wage determinations of the director of labor insofar as this chapter of this title and other acts incorporating this chapter of this title by reference are concerned may be discharged by the making of payments in cash, by the making of contributions of a type referred to in paragraph (b)(1), or by the assumption of an enforceable commitment to bear the costs of a plan or program of a type referred to in paragraph (b)(2), or any combination thereof, where the aggregate of any such payments, contributions, and costs is not less than the rate of pay described in paragraph (a) plus the amount referred to in paragraph (b).
3. The term "employees", as used in this section, shall include employees of contractors or subcontractors performing jobs on various types of public works including mechanics, apprentices, teamsters, chauffeurs and laborers engaged in the transportation of gravel or fill to the site of public works or removal of gravel or fill from one location to another on the site of public works, and the employment of such employees shall be subject to provisions of 1. and 2. of this section.

F. Specification in contract of amount and frequency of payment of wages.

ARTICLE 27: GENERAL GUARANTEE

Neither the final certificate of payment nor any provision in the Contract Documents nor partial or
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entire occupancy of the premises by the OWNER shall constitute an acceptance of work not done in accordance with the Contract Documents or relieve the Contractor of liability in respect to any express warranties or responsibility for faulty workmanship or materials. The Contractor shall remedy any defects in the work and pay for any damage to other work resulting therefrom, which shall appear within a period of one year (1) from the date of final acceptance of the work, however the OWNER is not waiving any rights for defects beyond the 1 year warranty period. The OWNER will give final notice of observed defects with reasonable promptness.

ARTICLE 28: COMPLETENESS OF THE WORK

In addition to the specified or described portions of the work, all other work and all other materials, equipment and labor of whatever description, necessary or required to complete the work, or for carrying out the full intent of the drawings and specifications, such work, labor, materials, and equipment shall be provided by the Contractor, and payment therefore shall be considered as having been included in the prices stipulated for the appropriate item of work listed in the bid.

ARTICLE 29: CARE OF THE WORK

The Contractor shall take adequate precautions to protect existing sidewalks, curbs, pavements, utilities, adjoining property and such incidentals, and to avoid damage thereto. The Contractor shall completely repair any damage at no additional expense to the OWNER.

ARTICLE 30: PROTECTION OF CONSTRUCTION FEATURES

The Contractor shall be responsible for all damages to persons or property that occur as a result of his fault or negligence in connection with the prosecution of the work and shall be responsible for the proper care and protection of all materials delivered and work performed until completion and final acceptance by the OWNER, whether or not the same has been covered by partial payments made by the OWNER.

ARTICLE 31: SAFETY AND HEALTH REGULATIONS

- A. These Contract Documents, and the joint and several phases of construction hereby contemplated, are to be governed, at all times, by the applicable provisions of the Federal law(s) including but not limited to the following:
 - 1. Williams-Steiger Occupational Safety and Health Act, 1970, Public Law 92-596;
 - 2. Part 1910 of the Occupational Safety and Health Standards, Chapter XVII of Title 29, Code of Federal Regulations;
 - 3. This project is subject to all of the Safety and Health Regulations (CFR 29, Part 1926 and all subsequent amendments) as promulgated by the U.S. Department of Labor on June 24, 1974. Contractors are urged to become familiar with the requirements of these regulations.
- B. In the event of any inconsistencies between the above laws and regulations and the provisions of these Contract Documents, the laws and regulations shall prevail.

ARTICLE 32: PROTECTION OF WORK AND PROPERTY - EMERGENCY

- A. The Contractor shall at all times safely guard the OWNER'S property from injury or loss in connection with this Contract. He shall at all times safely guard and protect his own work, materials incorporated into the work or stockpiled at the site, and that of adjacent property, from

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- damage. The Contractor shall replace or make good any such damage, loss or injury.
- B. In case of an emergency, which threatens loss or injury of property, and/or safety of life, the Contractor will be allowed to act, without previous instructions from the OWNER, in a diligent manner. He shall notify the OWNER immediately thereafter. Any claim for compensation by the Contractor due to such extra work shall be promptly submitted to the OWNER for approval.
 - C. Where the Contractor has not taken action but has notified the OWNER of an emergency threatening injury to persons or damage to the work or to any adjoining property, he shall act as instructed or authorized by the OWNER.
 - D. The amount of reimbursement claimed by the Contractor on account of any emergency action shall be determined in the manner provided elsewhere in the Contract Documents.

ARTICLE 33: FIRE PREVENTION AND PROTECTION

All State and municipal rules and regulations with respect to fire prevention, fire-resistant construction, and fire protection shall be strictly adhered to and all work and facilities necessary therefor shall be provided and maintained by the Contractor in an approved manner.

All fire protection equipment such as water tanks, hoses, pumps, extinguishers and other materials, and apparatus, shall be provided for the protection of the Contract work, temporary work, and adjacent property. Trained personnel experienced in the operation of all fire protection equipment and apparatus shall be available on the site whenever work is in progress, and at such other times as may be necessary for the safety of the public and the work.

ARTICLE 34: PROTECTION OF LIVES AND HEALTH

- A. In order to protect the lives and health of his employees under this Contract, the Contractor shall meet all pertinent provisions of the "Manual of Accident Prevention in Construction," issued by the Associated General Contractors of America, Inc., and shall maintain an accurate record of all cases of death, occupational diseases, and injuries requiring medical attention or causing loss of time of employment on the Contract work.
- B. The Contractor alone shall be responsible for the safety, efficiency, and adequacy of his plant, appliances, and methods, and for any damage which may result from their failure or their improper construction, maintenance or operation.

ARTICLE 35: PROTECTION AGAINST HIGH WATER AND STORM

The Contractor shall take all precautions to prevent damage to work or equipment by high water or by storms. The OWNER may prohibit the carrying out of work at any time when in his judgment high waters or storm conditions are unfavorable or unsuitable, or at any time regardless of the weather when proper precautions are not being taken to safeguard previously constructed work or work in progress.

In case of damage caused by the failure of the Contractor to take adequate precautions, the Contractor shall repair or replace equipment damaged and shall make such repairs or rebuild such parts of the damaged work as the OWNER may require, at no additional cost to the OWNER.

ARTICLE 36: FIRST AID TO INJURED

The Contractor shall keep in his office, ready for immediate use, all articles necessary for giving first aid to injured employees. He shall also provide arrangements for the immediate removal and hospital treatment of any employees injured on the work who require the same.

ARTICLE 37: HURRICANE PROTECTION

Should hurricane warnings be issued, the Contractor shall take every precaution to minimize danger to person, to the work and to adjacent property. These precautions shall include closing all openings, removing all loose materials, tools and equipment from exposed locations, and removing all scaffolding and other temporary work.

ARTICLE 38: USE OF PREMISES AND REMOVAL OF DEBRIS

The Contractor undertakes, at his own expense:

- A. To take every precaution against injuries to persons or damage to property.
- B. To store his apparatus, materials, equipment, and supplies in such orderly fashion at the site of the work as will not unduly interfere with the progress of his work or any others.
- C. To place upon the work or any part thereof, only such loads as are consistent with the safety of that portion of the work.
- D. To clean frequently all refuse, scrap, and debris caused by his operations, so that the work site is maintained in a neat, workmanlike appearance.
- E. To effect all cutting, fitting, or patching of his work required to make the same conform to the drawings and specifications, and except with the consent of the OWNER, not to cut or otherwise alter the work of any other contractor.
- F. Before final payment, to remove all surplus materials false work, temporary structures, including foundations thereof, plants of any description, and debris of any nature resulting from his operations, so that the site is left in a neat, orderly, and workmanlike condition.

ARTICLE 39: CORRECTION OF WORK

All work, materials, all processes of manufacture, and all methods of construction shall be at all times and places subject to the inspection of the OWNER, who shall be the final judge of the quality and suitability of the work performed under this Contract. Should any of the work performed fail to meet with his approval, it shall be forthwith reconstructed, made good, replaced, and/or corrected as the case may be, by the Contractor, at his own expense. Rejected material shall be immediately removed from the site.

If, in the opinion of the OWNER, it is undesirable to replace, reconstruct, or correct any of the work not performed in accordance with the Contract Documents, the compensation to be paid to the Contractor shall be reduced by such amounts as in the judgment of the OWNER shall be equitable.

ARTICLE 40: FAILURE TO REPAIR

Any emergency arising from the interruption of electric, gas, water, or sewer service due to the activities of the Contractor, shall be repaired by the Contractor as quickly as is possible.

If and when, in the opinion of the OWNER, the Contractor is not initiating repair work as expeditiously as possible upon notification to do so, the OWNER, may, at his own option, make the necessary repairs using his own forces or those of others. The cost of such repairs shall be subtracted from the payments due to the Contractor.

ARTICLE 41: WEATHER CONDITIONS

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In the event of temporary suspension of the work, or during inclement weather, or whenever the OWNER shall direct, the Contractor shall, and shall cause his subcontractors to protect carefully his and their work and materials against damage or injury from the weather. If, in the opinion of the OWNER, any work or materials are damaged or injured by reason of failure to protect them or the part of the Contractor, or any of his subcontractors, or otherwise damaged or injured by the Contractor's negligence, or are found to be defective, such materials or work shall be removed and replaced at the expense of the Contractor.

ARTICLE 42: WORK IN COLD WEATHER

The OWNER may determine when conditions are unfavorable for work and may order the work or any portion thereof, suspended whenever, in his opinion, the conditions are not such as will insure first class work.

ARTICLE 43: BUS LINE INTERFERENCE

Whenever it may be necessary to interfere with any bus lines, notice shall be given to the corporation owning the same, and reasonable time will be given to said corporation to arrange the schedule for operation of the bus line, as it may be necessary.

ARTICLE 44: NIGHTWORK

Nightwork, or work on Saturdays, Sundays, or legal holidays requiring the presence of an engineer or inspector, will not be permitted except in case of emergency, and only upon the approval of the OWNER.

Should it be necessary for the OWNER to operate an organization for continuous nightwork or for emergency nightwork, the lighting, safety and other facilities, which are deemed necessary, shall be provided by the Contractor. Compensation for this work shall be considered as having been included in the prices stipulated for the appropriate items of work as listed in the bid, and no extra compensation will be paid by the OWNER.

ARTICLE 45: LIGHTS, BARRIERS, WATCHMEN AND INDEMNITY

The Contractor shall erect and maintain such barriers, lighting, warning lights, danger warning signals, and signs that will prevent accidents during the construction work and protect the work and insure the safety of personnel and the public at all times and places; the Contractor shall indemnify and protect the OWNER and Engineer in every respect from injury or damage whatsoever caused by any act of neglect by the Contractor or his subcontractors, or their servants or agents.

In addition to the above, when and as necessary, or when required by the OWNER, the Contractor shall post signs and employ watchmen or flagmen, for the direction of traffic at the site and for excluding at all times unauthorized persons from the work site, for which the Contractor shall be paid no additional compensation.

The Contractor shall be responsible for excluding at all times from the land within the easement areas, all persons not directly connected with the work.

All work occurring on State of Rhode Island highways shall be clearly identified, protected and the public's safety ensured by erection of signs, barriers and all other provisions as outlined in the Manual on Uniform Traffic Control Devices for Streets and Highways; issued by the U. S. Department of Transportation, Federal Highway Administration, 1978; Part VI, Traffic Controls for Streets and Highway Construction and Maintenance Operations.

ARTICLE 46: LOADING

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No part of the structures involved in this Contract shall be loaded during construction with a load greater than it is calculated to carry with safety. Should any accidents or damage occur through any violation of this requirement, the Contractor will be held responsible under his Contract and bond.

ARTICLE 47: DISPOSAL OF MATERIALS

The materials used in the construction of the work shall be deposited in such manner so they will not endanger persons or the work, and so that free access may be had at any time to all hydrants and gates in the vicinity of the work. The materials shall be kept trimmed up so that as little inconvenience as possible to the public or adjoining tenants is caused.

In case the Contractor fails or neglects to promptly remove all surplus materials, tools, and incidentals after backfilling, leaving the street or surrounding area clean and free of debris, and do the required repaving when ordered, the OWNER may, after 24 hours' notice, cause the work to be done and the cost thereof deducted from any payment due to the Contractor.

ARTICLE 48: FINISHING AND CLEANING UP

In completing his operations, the Contractor shall immediately remove all surplus material, tools, and other property belonging to him, leaving the entire street or surroundings free and clean and in good order, at no additional expense to the OWNER. The Contractor shall exercise special care in keeping the rights-of-way and private lands upon which work is performed free and clean of all debris, and shall remove all tools and other property when they are not in use.

ARTICLE 49: SPIRITUOUS LIQUORS

The Contractor shall neither permit nor suffer the introduction of spirituous liquors upon the work embraced in this Contract, nor the use of the same.

ARTICLE 50: DUST CONTROL

The Contractor shall exercise every precaution and means to prevent and control dust arising out of all construction operations from becoming a nuisance to abutting property owners or surrounding neighborhoods. Dust control shall also protect residents and staff, per best-practices industry standards. Pavements adjoining the project area shall be kept broomed off and washed clean of excess materials wherever and whenever directed. Repeated daily dust control treatment shall be provided to satisfactorily prevent the spread of dust until the permanent engineered cap is constructed and until earth stockpiles have been removed, and all construction operations that might cause dust have been completed. No extra payment will be made for these dust control measures, compensation shall be considered to be included in the prices stipulated for the appropriate items as listed in the bid.

If so directed by the OWNER, the Contractor shall furnish and apply calcium chloride for supplemental control of dust. Calcium chloride shall conform to the requirements of AASHTO M. 144 (ASTM D-98) except that the pellet form and the flake form shall be equally acceptable. Calcium chloride shall be applied only at the locations, at such times and in the amount as may be directed by the OWNER. It shall be spread in such manner and by such devices that uniform distribution is attained over the entire area on which it is ordered placed.

There will be no separate payment for this work. The cost of the work shall be included in the price bid for the various other items of work.

PART III

The rights and obligations of the OWNER under this Contract shall include, but not be limited to the following:

ARTICLE 51: THE OWNER'S AUTHORITY

The OWNER shall give all orders and directions contemplated under this Contract and specifications relative to the execution of the work. The OWNER shall determine the amount, quality, acceptability, and fitness of the several kinds of work and materials that are to be paid for under this Contract and shall decide all questions that may arise in relation to said work and the construction thereof. The OWNER'S estimates and decisions shall be final and conclusive, except as herein otherwise expressly provided. In case any question shall arise between the parties hereto relative to said Contract or specifications, the determination or decision of the OWNER shall be a condition precedent to the right of the Contractor to receive any money or payment for work under this Contract affected by such questions. The OWNER shall decide the meaning and intent of any portion of the specifications and of any plans or drawings where the same may be found to be obscure or be in dispute. Any differences or conflicts in regard to their work that may arise between the Contractor and other contractors performing work for the OWNER shall be adjusted and determined by the OWNER.

ARTICLE 52: ALL WORK SUBJECT TO CONTROL BY THE OWNER

- A. In the performance of the work, the Contractor shall abide by all orders, directions, and requirements of the OWNER, and shall perform all work to the satisfaction of the OWNER, and at such times and places, by such methods, and in such manner and sequence as he may require. The OWNER shall determine the amounts, quality, acceptability, and fitness of all parts of the work. The OWNER shall interpret the drawings, specifications, contract documents, all other documents, and the extra work orders. The OWNER shall also decide all other questions in connection with the work. The Contractor shall employ no plant, equipment, materials, methods or men to which the OWNER objects and shall remove no plant, materials, or equipment or other facilities from the work site without the OWNER'S permission. Upon request, the OWNER will confirm in writing any oral order, direction, requirement, or determination.
- B. Inspectors shall be authorized to inspect all work done and materials furnished. Such inspection may extend to all parts of the work and to the preparation or manufacture of the materials to be used. The presence or absence of an inspector shall not relieve the Contractor from any requirements of the Contract. In case of any dispute arising between the Contractor and the inspector as to materials furnished or the manner in which the work is being executed, the inspector shall have the authority to reject material or suspend work until the question has been decided by the OWNER. The inspector shall not be authorized to revoke, alter, enlarge, relax, or release any requirement of these specifications, or to approve or accept any portion of the work, or to issue instructions contrary to the drawings and specifications. The inspector shall in no case act as foreman or perform other duties for the Contractor, or interfere with the management of the work by the latter. Any advice that the inspector may give the Contractor shall in no way be constructed as binding the OWNER or the Engineers in any way, nor releasing the Contractor from the fulfillment of the terms of the Contract.

ARTICLE 53: THE OWNER'S CONTROL NOT LIMITED

The enumeration in this Contract of particular instances in which the opinion, judgment, discretion or
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determination of the OWNER shall control or in which work shall be performed to his satisfaction or subject to his approval or inspection, shall not imply that only matters similar to those enumerated shall be so governed and performed, but without exception all the work shall be so governed and performed.

ARTICLE 54: RIGHT OF THE OWNER TO TERMINATE THE CONTRACT

In the event that any of the provisions of this Contract are violated by the Contractor, or any of his subcontractor, the OWNER may serve written notice upon the Contractor and the Surety of its intention to terminate the Contract, such notice to contain the reasons for such intention to terminate the Contract. If within ten days (10) such violation or delay shall not cease and satisfactory arrangement or correction made, the Contract shall, at the expiration of the ten days, cease and immediately serve notice thereof upon the Surety and the Contractor, and the Surety shall have the power to take over and perform the Contract, provided, however, that if the Surety does not commence performing thereof within ten days (10) from the date of mailing to such Surety a Notice of Termination, the OWNER may take over the work and prosecute the same to completion by CONTRACT or force account at the expense of the Contractor, and the Contractor and his Surety shall be liable to the OWNER for any excess cost occasioned the OWNER thereby.

ARTICLE 55: TERMINATION FOR CONVENIENCE

- A. The performance of work under this Contract may be terminated by the OWNER in accordance with this clause in whole, or from time to time in part, whenever the OWNER shall determine that such termination shall be effected by delivery to the Contractor of a Notice of Termination specifying the extent to which performance of work under the Contract is terminated, and the date upon which such termination becomes effective.
- B. After receipt of a Notice of Termination, and except as otherwise directed by the OWNER, the Contractor shall:
 - 1. Stop work under the Contract on the date and to the extent specified in the Notice of Termination;
 - 2. Place no further orders or subcontracts for materials, services or facilities except as may be necessary for completion of such portion of the work under the Contract as is not terminated;
 - 3. Terminate all orders and subcontracts to the extent that they relate to the performance of work terminated by the Notice of Termination;
 - 4. Assign to the OWNER in the manner, at the times, and to the extent directed by the OWNER, all of the right, title and interest of the Contractor under the orders and subcontracts so terminated. In which case, the OWNER shall have the right, in its discretion, to settle, or pay any or all claims arising out of the termination of such orders and subcontracts;
 - 5. Settle all outstanding liabilities and all claims arising out of such termination of orders and subcontracts, with the approval or ratification of the OWNER to the extent he may require, which approval or ratification shall be final for all the purposes of this clause;
 - 6. Transfer title to the OWNER, and deliver in the manner, at the times, and to the extent, if any, directed by the OWNER,
 - a. the fabricated or un-fabricated parts, work in process, completed work, supplies, and other material produced as a part of, or acquired in connection with the performance of the work terminated by the Notice of Termination, and
 - b. The completed or partially completed plans, drawings, information, and other property which, if the Contract had been completed, would have been required to be furnished to the OWNER.
 - 7. Use his best efforts to sell, in the manner, at the times, to the extent, and at the price or

- prices directed or authorized by the OWNER, any property of the types referred to in (6) above; provided however, that the Contractor
- a. shall not be required to extend credit to any purchaser, and
 - b. may acquire any such property under the conditions prescribed and at a price or prices approved by the OWNER: And, provided further, that the proceeds of any such transfer or disposition shall be applied in reduction of any payments to be made by the OWNER to the Contractor under this Contract or shall otherwise be credited to the price or cost of the work covered by this Contract or paid in other such manner as the OWNER may directed;
8. Complete performance of such part of the work as shall not have been terminated by the Notice to Termination; and
 9. Take such action as may be necessary, or as the OWNER may direct, for the protection and preservation of the property related to this Contract which is in the possession of the Contractor and which the OWNER has or may acquire an interest.
- C. After receipt of a Notice of Termination, the Contractor shall submit to the OWNER his termination claim, in the form and with the certification prescribed by the OWNER. Such claim shall be submitted promptly but in no event later than one year from the effective date of termination, unless one or more extensions in writing are granted by the OWNER upon request of the Contractor made in writing within such one-year period or authorized extension thereof. However, if the OWNER determines that the facts justify such action, he may receive and act upon any such termination claim at any time after such one-year period or extension thereof. Upon failure of the Contractor to submit his termination claim within the time allowed, the OWNER may determine, on the basis of information available to him, the amount, if any, due to the Contractor by reason of the termination and shall thereupon pay to the Contractor the amount so determined.
- D. Subject to the provisions of paragraph (c), the Contractor and the OWNER may agree upon the whole or any part of the amount or amounts to be paid to the Contractor by reason of the total or partial termination of work pursuant to this clause which amount or amounts may include a reasonable allowance for profit on work done: Provided, that such agreed amount or amounts, exclusive of settlement costs, shall not exceed the total contract price as reduced by the amount of payments otherwise made and as further reduced by the contract price or work not terminated. The Contract shall be amended accordingly, and the Contractor shall be paid the agreed amount. Nothing in Paragraph (e) of this clause, prescribing the amount to be paid to the Contractor in the event of failure of the Contractor and the OWNER to agree upon the whole amount to be paid to the Contractor by reason of the termination of work pursuant to this Paragraph (d).
- E. In the event of the failure of the Contractor and the Owner to agree as provided in Paragraph (d) upon the whole amount to be paid to the Contractor by reason of the termination of work pursuant to this clause, the Owner shall determine, on the basis of information available to him, the amount, if any, due to the Contractor the amounts determined as follows:
1. With respect to all contract work performed prior to the effective date of the Notice of Termination, the total (without duplication of any items) of:
 - a. The cost of such work;
 - b. The cost of settling and paying claims arising out of the termination of work under subcontracts or orders provided in Paragraph (b) (5) above, exclusive of the amounts paid or payable on account of supplies or materials delivered or services furnished by the subcontractor prior to the effective date of the Notice of Termination of work under this Contract, which amounts shall be included in the cost on account of which payment is made under (a) above, and;
 - c. A sum, as profit on (a) above, determined by the Owner to be fair and reasonable: Provided, however, that if it appears that the Contractor would have sustained loss on

- the entire Contract had it been completed, no profit shall be included or allowed under this subdivision (iii) and an appropriate adjustment shall be made reducing the amount of the settlement to reflect the indicated rate of loss; and
2. The reasonable cost of the preservation and protection of property incurred pursuant to Paragraph (b) (9); and any other reasonable cost incidental to termination of work under this Contract, including expense incidental to the determination of the amount due to the Contractor as the result of the termination of work under this Contract.
 3. The total sum to be paid to the Contractor under (1) above shall not exceed the total contract price as reduced by the amount of payments otherwise made and as further reduced by the contract price of work not terminated.
 4. Except for normal spoilage, and except to the extent that the Owner shall have otherwise expressly assumed the risk of loss, there shall be excluded from the amounts payable to the Contractor under (1) above, the fair value, as determined by the Owner, of property which is destroyed, lost, stolen, or damaged so as to become undeliverable to the Owner, or to a buyer pursuant to Paragraph (b) (7).
- F. The Contractor shall have the right to dispute under the clause of this Contract entitled "Remedies" from any determination made by the Owner under Paragraph (c) or (e) above, except that, if the Contractor has failed to submit his claim within the time provided in Paragraph (c) above and has failed to request extension of such time, he shall have no such right of appeal. In any case where the Owner has made a determination of the amount due under Paragraph (c) or (e) above, the Owner shall pay to the Contractor the following:
1. if there is no right of appeal hereunder or if no timely appeal has been taken, the amount so determined by the Owner or
 2. If a "Remedies" proceeding is initiated, the amount finally determined in such "Remedies" proceeding.
- G. In arriving at the amount due the Contractor under this clause, there shall be deducted
1. all unliquidated advance or other payments on account theretofore made to the Contractor, applicable to the terminated portion of this Contract,
 2. any claim which the Owner may have against the Contractor in connection with this Contract, and
 3. The agreed price for, or the proceeds of sale of any materials, supplies, or other things kept by the Contractor or sold, pursuant to the provisions of this clause, and not otherwise recovered by or credited by the Owner.
- H. If the termination hereunder be partial, prior to the settlement of the terminated portion of this Contract, the Contractor may file with the Owner a request in writing for an equitable adjustment of the price or prices specified in the Contract relating to the continued portion of the Contract (the portion not terminated by the Notice of Termination) and such equitable adjustment as may be agreed upon shall be made in such price or prices; however, nothing contained herein shall limit the right of the Owner and amounts to be paid to the Contractor for the completion if the continued portion of the Contract when said Contract does not contain an established contract price for such continued portion.

ARTICLE 56: RIGHTS OF ACCESS

Nothing herein contained or shown on the drawings shall be construed as giving the Contractor exclusive occupancy of the work area. The Owner or any other contractors employed by him, the various utility companies, contractors or subcontractors employed by State or Federal agencies, or any other agencies

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involved in the general project or upon public rights-of-way, may enter upon or cross the area of work or occupy portions of the area as is directed or necessary. When the territory of one contract is the convenient means of access to the other, the Contractor shall arrange his work in such a manner as to permit such access to the other and prevent unnecessary delay to the work as a whole.

ARTICLE 57: RIGHTS-OF-WAY AND SUSPENSION OF WORK

Land and rights-of-way for the purpose of this Contract shall be furnished by the Owner to the extent shown on the drawings; the Owner will use due diligence in acquiring said lands and rights-of-way as speedily as possible. If, however, lands or rights-of-way cannot be obtained before work on the project begins, the Contractor shall begin his work upon such land or rights-of-way as have been previously acquired by the Owner, and no claims for damages whatsoever will be allowed by reason of the delay in obtaining the remaining land and rights-of-way. Should the Owner be prevented or enjoined from proceeding with the work, or from authorizing its prosecution, either before or after the commencement by reason of litigation, or by reason of its inability to procure the lands or rights-of-way for the said work, the Contractor shall not be entitled to make or assert a claim for damages by reason of the said delay, or to withdraw from the Contract except by consent of the Owner. Time for completion of work will be extended to such time as the Owner determines will compensate for the time lost by such delay, such determination to be set forth in writing.

ARTICLE 58: CONFORMANCE WITH DIRECTIONS

The Owner may make alterations in the line, grade, plan, form, dimension, or materials of the work, or any part thereof, either before or after the commencement of construction. Should such alterations diminish the quantity included in any item of work to be done and paid for at a unit price, the Contractor shall have no claim for damages or for anticipated profits on the work that thus may be dispensed with. If they increase the quantity included in any such item, such increase shall be paid for at the stipulated prices.

ARTICLE 59: INTERPRETATION OF THE DRAWINGS AND SPECIFICATIONS

Except for the Contractor's executed set, all drawings and specifications are the property of the Owner. The Owner will furnish the Contractor, without charge, three (3) sets of the drawings and specifications. Additional sets will be furnished upon request, at actual cost of reproduction. Such drawings and specifications are not to be used on other work and those sets in usable condition shall be returned to the Owner upon request at the completion of cessation of the work or termination of the Contract.

The Contractor shall keep one (1) copy of the drawings and specifications at the work site at all times and shall give the Owner and their representatives access thereto. Anything on the drawings and not mentioned in the specifications, or anything in the specifications that is not shown on the drawings shall have the same force and effect as if mentioned in both. In case of conflict or inconsistency between the drawings and the specifications, the specifications shall take precedence. Any discrepancy in the figures and the drawings shall be immediately submitted to the Owner for decision and the decision of the Owner shall be final. In case of differences between small and large-scale drawings, the large-scale drawings shall take precedence.

ARTICLE 60: SUSPENSION OF WORK

- A. The Owner may order the Contractor in writing to suspend, delay, or interrupt all or any part of the work for such period of time as he may determine to be appropriate for the convenience of the Owner.
- B. If the performance of all or any part of the work is, for an unreasonable period of time, suspended,

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delayed, or interrupted by an act of the Owner in administration of this Contract, or by his failure to act within the time specified in this Contract (or if no time is specified, within a reasonable time), an adjustment shall be made for any increase in the cost of performance of this Contract (excluding profit) necessarily caused by such unreasonable suspension, delay, or interruption and the Contract modified in writing accordingly. However, no adjustment shall be made under this clause for any suspension, delay, or interruption to the extent (1) that performance would have been so suspended, delayed, or interrupted by any other cause, including the fault or negligence of the Contractor or (2) for which an equitable adjustment is provided for or excluded under any other provision of this Contract.

- C. No claim under this clause shall be allowed (1) for any costs incurred more than 20 days before the Contractor shall have notified the Owner in writing of the act or failure to act involved (but this requirement shall not apply as to a claim resulting from a suspension order), and (2) unless the claim, in an amount stated, is asserted in writing as soon as practicable after the termination of such suspension, delay or interruption, but not later than the date of final payment under the Contract.

ARTICLE 61: INSPECTION

The authorized representatives and agents of the Owner shall be permitted to inspect all work materials, payrolls, records of personnel, invoices for materials, and other relevant data and records.

PART IV

ARTICLE 62: SUBCONTRACTORS

The Contractor may utilize the services of specialty subcontractors on those parts of the work which, under normal contracting practices, are performed by specialty subcontractors.

The Contractor shall not award work to any subcontractor other than those listed in his bid, without the prior written approval of the Owner, which approval will not be given until the Contractor submits a written statement concerning the proposed award to the subcontractor, which statement shall contain such information as the Owner may require.

The Contractor shall cause appropriate provisions to be inserted in all subcontracts relative to the work, to bind the subcontractors to the contract documents insofar as applicable to the subcontract work and to give the Contractor the same power as regards to terminating any subcontract that the Owner may exercise over the Contractor under any provisions of the contract documents.

Nothing contained in this Contract shall create any contractual relationship between the Owner and any subcontractor.

ARTICLE 63: MUTUAL RESPONSIBILITY OF CONTRACTORS

If, through acts of neglect on the part of the Contractor, any other contractor or any subcontractor shall suffer loss or damage to the work, the Contractor agrees to settle with such other contractor or subcontractor by agreement or arbitration. If such other contractor or subcontractor shall assert any claim against the Owner on account of any damage alleged to have been sustained, the Owner shall notify the Contractor who shall indemnify and save harmless the Owner against any such claim.

ARTICLE 64: ASSIGNMENTS

The Contractor shall not assign the whole or any part of this Contract or any monies due or to become due hereunder without the written consent of the Owner. In case the Contractor assigns all or part of any monies due or to become due under this Contract, the instrument of assignment shall contain a clause

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substantially to the effect that it is agreed that the right of the assignee in and to any monies due or to become due to the Contractor shall be subject to prior claims of all persons, firms, or corporations for services rendered or materials supplied for the performance of the work called for in this Contract.

ARTICLE 65: SEPARATE CONTRACTS

The Owner reserves the right to let other contracts in connection with the construction of the contemplated work of the project, or contiguous projects of the Owner. The Contractor, therefore, will afford to any such other contractors reasonable opportunity for the introduction and storage of their materials and the execution of their work, will properly connect and coordinate his work with theirs, and will not commit or permit any act which will interfere with the performance of their work.

The Contractor shall coordinate his operations with those of other contractors. Cooperation will be required in the arrangement for storage of materials and in the detailed execution of the work. Failure by the Contractor to keep informed on the progress or defective workmanship by others shall be construed as acceptance by him of the status of the work as being satisfactory for proper coordination with and performance of his own work.

ARTICLE 66: WORK BY OTHERS

The Owner reserves the right to do any other work which may be connected with, or become a part of, or be adjacent to the work embraced by this Contract, at any time, by Contract or otherwise. The Contractor shall not interfere with the work of such others as the Owner may employ, and shall execute his own work in such a manner as to aid in the execution of the work of others as may be required. No backfilling of trenches or excavations will be permitted until such work by the Owner is completed.

PART V

The Contractor agrees that in case of underpayment of wages to any worker on the project under this Contract by the Contractor or any of his subcontractors, the OWNER will withhold from the Contractor out of payments due to him, an amount sufficient to pay such worker the difference between the wages required to be paid under this contract and the wages actually paid such worker for the total number of hours worked, and that the OWNER may disburse such amount so withheld by it for and on account of the Contractor to the employee to whom such amount is due. The Contractor further agrees that the amount withheld pursuant to this article may be in addition to the percentage to be retained by the OWNER pursuant to other provisions of this Contract.

ARTICLE 68: PAYMENT OF EMPLOYEES

The Contractor and each of his subcontractors shall pay each of their employees engaged in the work on the project under this Contract in full, in cash, and not less than once a week, less legally required deductions, provided, that when circumstances render payment in cash unfeasible or impracticable, then payment by check may be effected upon consideration that funds are made available in a local bank and checks may be cashed without charge, trade requirements, or inconvenience to the worker.

ARTICLE 69: NON-DISCRIMINATION IN EMPLOYMENT

In connection with the performance of the work under this Contract, the Contractor agrees not to discriminate against employee because of race, religion, color, or national origin. The aforesaid provisions shall include but not be limited to the following: employment, upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination, rate of pay or other forms of compensation and selection for

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training, including apprenticeship.

ARTICLE 70: APPRENTICES

Apprentices shall be permitted to work only under a bona fide apprenticeship program registered with a State Apprenticeship Council which is recognized by the Federal Committee on Apprenticeship, United States Department of Labor; or if no such Council exists in a State, under a program registered with the Bureau of Apprenticeship, United States Department of Labor.

PART VI

ARTICLE 71: SHOP OR SETTING DRAWINGS

- A. The Contractor shall submit promptly to the Engineer six (6) copies of each shop or setting drawing prepared in accordance with a schedule predetermined by the Contractor. After examination of such drawings by the Engineer, and the return thereof, if re-submission is required, the Contractor shall make such corrections to the drawings as have been indicated and shall furnish the Engineer with six (6)-corrected copies. Regardless of corrections made in or approval given to such drawings by the Engineer, the Contractor will, nevertheless, be responsible for the accuracy of such drawings and for their conformity to the drawings and specifications, unless he notifies the Engineer in writing of any deviations at the time he furnishes the drawings.
- B. Shop drawings of all fabricated work shall be submitted to the Engineer for approval and no work shall be fabricated by the Contractor save at his own risk until approval has been given by the owner. The Special Conditions define the shop drawings required for this project.
- C. The Contractor shall submit all shop and setting drawings on dates sufficiently in advance of requirements to enable the Engineer ample time for reviewing the same, including time for correcting, resubmission and reviewing, if necessary, and no claim for delay will be granted the Contractor by reason of his failure in this respect.
- D. All shop drawings submitted must bear the stamp of the Contractor as evidence that the drawings have been checked by him. Any drawings submitted without this stamp of approval will not be considered and will be returned to the Contractor for resubmissions. If the shop drawings show deviations from the requirements of the Contract Documents because of standard shop practice or other reason, the Contractor shall make specific mention of such variation in his letter of transmittal to the Engineer, in order that an acceptable, suitable action may be taken for proper adjustment; otherwise the Contractor will not be relieved of the responsibility for executing the work in accordance with the Contract Documents even though the shop drawings have been approved.
- E. Where shop drawings are submitted by the Contractor that indicate a departure from the Contract which the Engineer deems to be a minor adjustment in his interest and not involving a change in the contract price or extension of time, the Engineer may approve the drawings but the approval will contain in substance, the following:
 - 1. "The modification shown on the attached drawings is approved in the interest of the Owner to effect an improvement for the project and is ordered with the understanding that it does not involve any change in the contract price or an extension of time, that it is subject generally to all contract stipulations and covenants; and that it is without prejudice to any rights of the Owner under the contract and bond or bonds."
- F. The approval of the shop drawings will be general and shall not relieve the Contractor from the responsibility for adherence to the Contract, for any error that may exist.
- G. The Contractor agrees to hold the Engineer and the Owner harmless and defend them against

damages or claims for damages arising out of injury to others or property of third persons which result from errors on shop, working or setting drawings whether or not they have been approved by the Engineer and/or the Owner.

ARTICLE 72: WORK TO BE ACCOMPLISHED IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS

The work, during its progress and at its completion, shall conform to the lines and grades shown on the drawings and to the directions given by the Engineer from time to time, subject to such modifications or additions as he shall determine to be necessary during execution of the work; and in no case will any work be paid for in excess of such requirements. The work shall also be accomplished in accordance with the data in these specifications.

ARTICLE 73: CONTRACTOR TO CHECK DIMENSIONS AND SCHEDULES

The Contractor will be required to check all dimensions and quantities shown on the drawings or schedules given to him by the Engineer, and shall notify the Engineer of all errors therein which he may discover by examining and checking the same. The Contractor shall not take advantage of any error or omissions in furnish all instructions should such error or omissions be discovered, and the Contractor shall carry out such instructions as if originally specified.

ARTICLE 74: PLANIMETER

For estimating quantities in which the computation or areas by analytic and geometric methods would be comparatively laborious, it is stipulated and agreed that the calculator or computer shall be considered an instrument of precision adapted to the measurement of such areas.

ARTICLE 75: ADDITIONAL INSTRUCTIONS AND DETAIL DRAWINGS

The Contractor will be furnished additional instructions and detail drawings as necessary to carry out the work included in the Contract. The additional drawings and instructions thus supplied to the Contractor will coordinate with the Contract Documents and will be so prepared that they can be reasonably interpreted as part thereof. The Contractor shall carry out the work in accordance with the additional detail drawings and instructions. The Contractor and the Engineer will prepare jointly a schedule fixing the respective dates for the submission of shop drawings, the beginning of manufacture, testing, and installation of materials, supplies, and equipment, and the completion of the various parts of the work; each schedule to be subject to change from time to time in accordance with the progress of the work.

ARTICLE 76: MATERIALS, SERVICES AND FACILITIES

It is understood that, except as otherwise specifically stated in the Contract Documents, the Contractor shall provide and pay for all materials, labor, tools, equipment, water, light, power, transportation, superintendence, temporary construction of every nature, and all other services and facilities of every nature whatsoever, necessary to protect, execute, complete, and deliver the work within the specified time.

If approved by the Owner, and work necessary to be performed after regular hours, on Saturdays, Sundays, or legal holidays, shall be performed by the Contractor without additional expense to the Owner.

ARTICLE 77: CONTRACTOR'S TITLE TO MATERIALS

No material, supplies, or equipment for the work shall be purchased by the Contractor or any subcontractor, subject to any chattel mortgage or under a conditional sale or other agreement by which an interest therein or in any part thereof is retained by the seller or supplier. The Contractor warrants good title to all material, supplies, and equipment installed or incorporated in the work and further warrants upon completion of all work, to deliver the premises, together with all improvements and appurtenances constructed or placed thereon by him, to the Owner free from any claims, liens, or charges, or encumbrances and further agrees that neither he nor any person, firm or corporation furnishing any material or labor for any work covered by this Contract shall have the right to a lien upon the premises or any improvement or appurtenance thereon.

ARTICLE 78: INSPECTION AND TESTING OF MATERIALS

All materials and equipment used in the construction of the project shall be new and of current manufacture. Testing will be done in accordance with accepted standards and as directed by the Engineer; the laboratory or inspection agency shall be selected by the Engineer. Except as specified elsewhere in these specifications, testing will be part of the Engineering Contract.

All materials and workmanship shall be subject to inspection, examination, and testing by the Engineer at any and all times during manufacture and/or construction and at any and all places where such manufacture and or construction is carried on, to establish conformance with these specifications and suitability for uses intended. Without additional charge, the Contractor shall furnish promptly all reasonable facilities, labor, and materials necessary to make tests so required safe and convenient. He shall also furnish and mill, factory, or other such tests based on the standards and Tentative Standards of the American Society for Testing Materials as required by the Engineer.

ARTICLE 79: DEFECTIVE MATERIALS

No materials shall be laid or used which are known, or may be found to be in any way defective. Any materials found to be defective at the site of work or upon installation shall be replaced by the Contractor at his own expense. Notice shall be given to the Engineer of any defective or imperfect material. Defective or unfit material found to have been laid, shall be removed and replaced by the Contractor with sound and unobjectionable material without additional cost to the Owner.

ARTICLE 80: PATENTS

- A. The Contractor shall hold and save the Owner harmless from liability of any nature or kind, including cost and expenses for, or on account of, and patented or unpatented invention, process, article, or appliance manufactured or used in the Contract, including its use by the Owner.
- B. License and/or royalty fees for the use of a process that is authorized by the Owner must be reasonable, and paid to the holder of the patent, or his authorized agent, directly by the Contractor.
- C. If the Contractor uses any design, device or material covered by letters, patent, or copyright, he shall provide for such use by suitable agreement with the Owner or such patent or copyrighted design, device, or material.
- D. It is mutually agreed and understood that, without exception, the contract prices shall include all royalties, license fees, or costs arising out of the use of such process, design, device, or materials, in any way involved in the work. The Contractor and/or his Surety shall indemnify and save the Engineer and the Owner harmless from all claims for infringement by reason of use of such patented material, device or design, in connection with the work under this Contract, and shall

indemnify the Engineer and the Owner for any cost, expense, or damage which it may be obligated to pay for reason of such infringement at any time during the prosecution of the work.

ARTICLE 81: "OR APPROVED EQUAL CLAUSE"

- A. Whenever a material or article required is specified or shown on the drawings by using the name of the proprietary product or of a particular manufacturer or vendor, any material or article which will perform adequately the duties imposed by the general design may be considered equal and satisfactory providing the material or article so proposed is of equal substance and function in the Owner's opinion. It shall not be purchased or installed without his written approval. In all cases, new material shall be used on the project.
- B. If two or more brands, makes of material, devices or equipment are shown or specified, each should be regarded as the approved equal of the other. Any other brand, make or material, device or equipment, which, in the opinion of the Owner or his authorized agent, is the recognized approved equal of that specified, considering quality, workmanship, and economy of operation, and is suitable for the purpose intended, may be accepted.
- C. If any other material or article is substituted for items shown or specified, the project must result in a savings in the contract price and the Contractor shall submit evidence that the substitute product is equal. Upon approval of the substitute product, the Owner will issue a deductive change order.
- D. If an equipment manufacturer must have a specified period of experience with his product, equipment which does not meet with the specified experience period may, at the option of the owner, be considered if the equipment supplier or manufacturer is willing to provide a bond or cash deposit for the duration of the specified time period which will guarantee replacement of that equipment in the event of failure. Any and all extra work, changes, or costs due to the substitution will be at the expense of the Contractor.

PART VII

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ARTICLE 82: INSURANCES

The Contractor shall be responsible for maintaining insurance coverage in force for the life of this Contract of the kind and adequate amounts to secure all of his obligations under this Contract and with insurance companies licensed to write such insurance in the State of Rhode Island and acceptable to the Owner. The kinds and amounts of such insurance carried shall not be less than the kinds and amounts of insurance coverage designated in the Special Conditions, and the Contractor agrees that the stipulation herein of the kinds and minimum amounts of coverage or the acceptance by the Owner of certificates indicating the kinds and limits of coverage shall in no way limit the liability of the Contractor to any such kinds and amounts of insurance coverage. All policies issued shall indemnify and save harmless the Owner, the Engineer, and their agents or representatives from any and all claims for damages arising out of the Contract, to either persons or property.

Policies and certificates of all insurances shall be submitted to the Owner by the Contractor in 8 copies prior to preparation of the construction contract. In the event that the form of any policy or certificate of the amount of the insurance of the companies writing the same are not satisfactory to the Owner, the Contractor will be required to obtain proper and acceptable certificates prior to the start of any work. The Contractor shall not cause policies to be canceled or permit them to lapse and all insurance policies shall include a clause to the effect that the policy shall not be subject to cancellation or a reduction in the required limits of liability amounts of insurance until notice has been sent by registered mail to the Owner, stating when, not less than thirty (30) days thereafter, such cancellation or reduction shall be effective. All certificates of insurance shall contain true transcripts from the policy, authenticated by the proper officer of the insurer

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evidencing in particular, those insure, the extent of the insurance, the location and operations to which the insurance applies the expiration date, and the above-mentioned notice of cancellation clause.

The Contractor shall be responsible for the provision of identical insurance coverages for all his subcontract operations and, in the event that the Contractor's policies do not cover each and every subcontractor, certificates of insurance issued on policies by companies that are acceptable to the Owner covering each and every subcontractor shall be filed under the Owner in 8 copies prior to the commencement of such subcontract operations. All insurance specified in this Contract shall be provided by the Contractor, at no additional expense to the Owner.

PART VIII

ARTICLE 83: COMPENSATION TO BE PAID TO THE CONTRACTOR

- A. The Owner will pay and the Contractor shall receive as full compensation for everything finished and one by the Contractor under this Contract, the unit prices and lump sum prices set opposite the respective items in the accepted bid form herein contained, and payment for approved extra work. The cost of all work required not specifically included in any items herein mentioned, and also for all loss or damage arising out of the nature of the work aforesaid or from the action of the elements, or from any unforeseen obstruction or difficulty encountered in the prosecution of the work and for all risks of every description connected with the work, and for all expenses incurred by or in consequence of the suspension or discontinuance of the work as herein specified, and for assuming all duties, and liabilities, herein required, and for well and faithfully completing the work, and the whole thereof, as herein provided, shall be the responsibility of the Contractor.
- B. The amount of the Contract (accepted bid prices) listed in the bid is based on the estimated quantities and the unit and/or lump sum price as set forth in the bid. It is understood and agreed that the Contractor will accept as payment the actual measured quantities at the unit and/or lump sum price as set forth in the accepted bid.
- C. The estimated quantities given in the bid proposal for the various items of work are given for the purpose of comparing the bids offered for the work under this Contract and if it is found in the performance of the Contract work that any or all of the said estimated quantities are not even approximately correct the Contractor shall have no claim for anticipated profits, or for loss of profit, or for increase in prices as listed in the accepted bid because of the difference between the quantities of the various items of work actually done and the estimated quantities stated in the accepted bid.
- D. No payment or compensation will be made to the Contractor for damages because of hindrance or delay from any cause in the progress of the work, whether such hindrances or delays are avoidable or unavoidable.

ARTICLE 84: PAYMENTS TO CONTRACTOR

- A. At least ten (10) days before each progress payment falls due (but not more often than once a month), the CONTRACTOR shall submit to the ENGINEER a partial payment estimate filled out and signed by the CONTRACTOR covering the WORK performed during the period covered by the partial payment estimate and supported by such data as the ENGINEER may reasonably require. If payment is requested with the ENGINEER'S permission on the basis of materials and equipment not incorporated in the WORK but delivered and suitably stored at or near the site, in accordance with the manufacturer's recommendation and as required by the Owner, the partial payment estimate shall also be accompanied by such supporting data satisfactory to the OWNER

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as will establish the OWNER'S title to the material and equipment applicable insurance. The ENGINEER will within ten (10) days after receipt of each partial payment estimate either indicate in writing his approval or return the partial payment estimate to the CONTRACTOR indicating in writing his reasons for refusing to approve payment. In the latter case, the CONTRACTOR may make the necessary corrections and resubmit the partial payment estimate. The OWNER will within thirty (30) days of presentation to him of an approved partial payment estimate pay the CONTRACTOR a progress payment on the basis of the approved partial payment estimate assuming an approvable pay estimate is submitted by the stipulated date.

1. **The Owner will retain 5% of the bid value, through the warranty period. After successful completion of the 1 year warranty period, the retainage will be released.**
- B. With each partial payment estimate, the CONTRACTOR shall certify in writing that the project's AS-BUILT DRAWINGS are being maintained accurately and currently. Said certificate shall be signed by the CONTRACTOR'S SUPERINTENDENT and the CONTRACTOR'S ENGINEER or SURVEYOR. Any payment estimate not having said certification attached will be subject to refusal of payment.
- C. Prior to SUBSTANTIAL COMPLETION, the OWNER, with the approval and concurrence of the CONTRACTOR, may use any completed or substantially completed portions of the WORK. Such use shall not constitute an acceptance of such portions of the WORK.
- D. The OWNER shall have the right to enter the premises for the purpose of doing work not covered by the CONTRACT DOCUMENTS. This provision shall not be construed as relieving the CONTRACTOR of the sole responsibility for the care and protection of the WORK or the restoration of any damaged WORK except such as may be caused by agents or employees of the OWNER.
- E. Upon completion and acceptance of the WORK, the OWNER shall issue a certificate attached to the final payment request that the WORK has been accepted by him under the conditions of the CONTRACT DOCUMENTS. The entire balance found to be due the CONTRACTOR, less a five (5%) percent retainage plus other such sums as may be lawfully retained by the OWNER shall be paid to the CONTRACTOR within forty-five (45) days of completion and acceptance of the WORK. The five (5%) percent retainage shall be paid to the CONTRACTOR at the completion of the one-year General Guarantee period. (See GC Article 27.)
- F. The CONTRACTOR will indemnify and save the OWNER or the OWNER'S REPRESENTATIVE harmless from all claims growing out of the lawful demands of SUBCONTRACTORS, laborers, workmen, mechanics, material men, and furnishers of machinery and parts thereof, equipment, tools and all supplies incurred in the furtherance of the performance of the WORK. The CONTRACTOR shall at the OWNER's request furnish satisfactory evidence that all obligations of the nature designated above have been paid, discharged or waived. If the CONTRACTOR fails to do so the OWNER may, after having notified the CONTRACTOR, either pay unpaid bills or withhold from the CONTRACTOR'S unpaid compensation a sum of money deemed reasonably sufficient to pay any and all such lawful claims until satisfactory evidence is furnished that all liabilities have been fully discharged whereupon payment to the CONTRACTOR shall be resumed in accordance with the terms of the CONTRACT DOCUMENTS be construed to impose any obligations upon the OWNER to either the CONTRACTOR, his Surety, or any third party. In paying any unpaid bills of the CONTRACTOR, any payment so made by the OWNER shall be considered as a payment made under the CONTRACT DOCUMENTS by the OWNER to the CONTRACTOR and the OWNER shall not be liable to the CONTRACTOR for any such payments made in good faith.

ARTICLE 85: CHANGE ORDERS

- A. The Owner may, at any time, without notice of the sureties, by written order designated or

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indicated to be a Change Order, make any change in the work within the general scope of this Contract, including but not limited to changes:

1. In the Specifications (including drawings and designs);
 2. In the method or manner of performance of the work;
 3. In the Owner-furnished facilities, equipment, materials, services, or site; or
 4. Directing acceleration in the performance of the work.
- B. Any other written order or an oral order (which terms as used in this paragraph (b) shall include direction, instruction, interpretation or determination) from the Owner, which causes any such change, shall be treated as a change order under this clause, provided that the Contractor gives the Owner written notice stating the date, circumstances and source of the order and that the Contractor regards the order as a Change Order.
- C. Except as herein provided, no order, statement, or conduct of the Owner shall be treated as a change under this clause or entitle the Contractor to an equitable adjustment hereunder.
- D. If any change, by change order, causes an increase or decrease in the Contractor's cost of, or the time required for, the performance of any part of the work under this Contract, an equitable adjustment shall be made and the Contract modified in writing accordingly: Provided, however, that no claim for any change order (b) above shall be allowed for any costs incurred more than 20 days before the Contractor gives written notice as therein required: and, provided, further, that in case of defective specifications for which the Owner is responsible, the equitable adjustment shall include only increased cost reasonably incurred by the Contractor in attempting to comply with such defective specifications.
- E. If the contractor intends to assert a claim for an equitable adjustment under this clause, he must, within 30 days after receipt of a written change order under (a) above or the furnishing of a written notice under (b) above, submit to the Owner a written statement setting forth the general nature and monetary extent of such claim, unless this period is extended by the Owner. The statement of claim hereunder may be included in the notice under (b) above.
- F. No claim by the Contractor for an equitable adjustment hereunder for any amount shall be allowed unless agreed to by Change Order prior to the work being done.

ARTICLE 86: CHANGES IN THE WORK

No changes in the work covered by the approved Contract Documents shall be made without having prior written approval of the Owner. Charges or credits for the work covered by the approved changes shall be determined by one or more, or a combination of the following methods as the Owner shall direct:

- A. Unit price bid previously approved;
- B. The actual cost of: labor, materials, ownership or rental costs of construction plant and equipment during the use of item on the extra work; power and consumable supplies for the operation of power and equipment; social Security, Old Age, and Unemployment contributions and insurances.
- C. To the cost of "b" above, there shall be added a fixed fee to be agreed upon but not to exceed 15%.
The fee shall be compensation to cover the cost of supervision, overhead, bonds, profits, and any other general expenses.

If a subcontractor performs the work, he shall be entitled to a maximum of 15% as a fixed fee, and the general contractor be entitled to a maximum of 5% (of the cost of the subcontract work excluding subcontractor fixed fee) as a fixed fee.

ARTICLE 87: CLAIMS FOR EXTRA COST

No claims for extra work or cost will be allowed unless the same were done in pursuance of a written

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order of the Owner as aforesaid, and the claim presented with the first estimate after the changed or extra work is done. When the work is performed under terms specified elsewhere in the Contract, the Contractor shall furnish satisfactory bills, payrolls, and vouchers covering all items of cost and upon the Owner's request, give him full access to the accounts relating thereto.

ARTICLE 88: CHANGES AND MODIFICATIONS

The Owner reserves the right to delete or cancel any item or items or parts thereof as listed in the bid, without recourse by the Contractor. The Owner also reserves the right to add to any item as listed in the bid. The compensation to be paid to the Contractor for such additional extensions, appurtenances, or items shall be made under the applicable items in the bid. If no applicable items are provided in the bid, the compensation to be paid the Contractor shall be set forth under the article entitled "Changes in the Work" as found herein.

ARTICLE 89: ACCEPTANCE OF THE FINAL PAYMENT CONSTITUTES RELEASE

The acceptance of the Final Payment by the Contractor shall be and shall operate as a release to the Owner for all claims and all liability to the Contractor for all things done or furnished in connection with this work and for every act or neglect of the Owner and others relating to or arising out of this work. No payment, however, final or otherwise, shall operate as a release of the Contractor or his Surety from any obligations under this Contract or the performance and payment bond.

The Contractor shall submit a release of liens for vendors and sub-contractors prior to final payment.

End of General Conditions#

SPECIAL CONDITIONS

INDEX TO THE SPECIAL CONDITIONS

<u>ARTICLE NO.</u>	<u>TITLE</u>
1	ENUMERATION OF DRAWINGS, SPECIFICATIONS AND ADDENDA
2	INTERFERENCE WITH EXISTING STRUCTURES
3	CLEANING FINISHED WORK
4	INSURANCES
5	REMEDIES
6	REQUIRED SUBMITTALS
7	TIME FOR COMPLETION AND LIQUIDATED DAMAGES

ARTICLE 1: ENUMERATION OF DRAWINGS, SPECIFICATIONS AND ADDENDA

The following are the Drawings, Specifications, and Addenda that form a part of this Contract, as set forth in Article 1 of the General Conditions of these Contract Documents.

- a. GENERAL CONDITIONS
- b. SPECIAL CONDITIONS
- c. TECHNICAL SPECIFICATIONS
- d. SITE KEY LAYOUT PREPARED BY ES&M
- e. ABATEMENT PLANS PREPARED BY ECM

ADDENDA:

No. Dated:

No. Dated:

ARTICLE 2: INTERFERENCE WITH EXISTING STRUCTURES

Whenever it may be necessary to interfere with existing structures needing special care, due notice shall be given to the Owner, and the work shall be done according to his directions. Whenever required, all objects shall be strengthened to meet any additional stress that the work herein specified may impose upon it, and any damage caused shall be thoroughly repaired.

The Contractor shall repair and be responsible for correcting all damages to existing structures at no additional cost to the Owner.

All damaged items of work or items required to be removed and replaced due to construction shall be replaced or repaired by the Contractor to the complete satisfaction of the Owner, and at no additional expense to the Owner.

Under no circumstances will the Contractor interfere in any manner with the normal daily operations of the fire station facility.

ARTICLE 3: CLEANING FINISHED WORK

After the work is completed, all construction areas shall be carefully cleaned free of debris and dirt, rubbish, construction material, and left in first class condition, ready to use. All temporary or excess materials shall be disposed of off-site and the work area left to the satisfaction of the Owner.

ARTICLE 4: INSURANCES

The Contractor shall provide the following insurance in accordance with Article 82 of the General Conditions:

- a. WORKMEN'S COMPENSATION INSURANCE

The Contractor shall provide adequate statutory Workmen's Compensation Insurance, in accordance with M.G.L. c.149, s.34A, for all labor employed on the project who may come within the protection of such laws and shall provide Employer's General Liability Insurance in the amount of \$100,000 for the benefit of his employees not protected by such compensation laws.

- b. CONTRACTOR'S COMPREHENSIVE PUBLIC LIABILITY AND PROPERTY DAMAGE LIABILITY INSURANCE

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The Contractor shall carry Comprehensive General Liability Insurance with broad form of Contractual General Liability Endorsement attached, providing for a limit of not less than One Million Dollars (\$1,000,000.00) for all damages arising out of bodily injuries to or death of one person, and subject to that limit for each person, a total limit of not less than One Million Dollars (\$1,000,000.00) for all damages arising out of bodily injuries to or the death of two or more persons in any one accident; and Contractor's Comprehensive Property Damage Liability Insurance providing for a limit of not less than One Million Dollars (\$1,000,000.00) for all damages arising out of injury to or destruction of property in any one accident; and subject to a limit of not less than One Million Dollars (\$1,000,000.00) for all damages arising out of injury to or destruction of property during the policy period.

c. OWNER'S PROTECTIVE LIABILITY AND PROPERTY DAMAGE INSURANCE

The Contractor shall provide the Owner an insurance policy written in the name of the Owner, its employees, servants, and agents, and extended to include the interests of Resource Control Associates, Inc.; its employees, and agents; to protect the Owner and the Engineer from any liability which might be incurred against them as a result of any operations of the Contractor or his subcontractors or their employees. Such insurance shall provide for a limit of not less than One Million Dollars (\$1,000,000.00) for all damages arising out of bodily injuries to or the death of any one person, and subject to that limit for each person, a total limit of not less than One Million Dollars (\$1,000,000.00) for all damages arising out of bodily injuries to or the death of two or more persons in any one accident; and a limit of not less than One Million Dollars (\$1,000,000.00) for all damages arising out of injury to or destruction of property in any one accident, and subject to a limit of not less than One Million Dollars (\$1,000,000.00) for all damages arising out of injury to or destruction of property during the policy period.

d. COMPREHENSIVE AUTOMOBILE LIABILITY AND PROPERTY DAMAGE INSURANCE

The Contractor shall carry Comprehensive Automobile Liability Insurance covering all owned vehicles, hired vehicles, or non-owned vehicles in the amount of not less than One Million Dollars (\$1,000,000.00) for all damages arising out of bodily injuries to or the death of any one person; and subject to that limit for each person a total of not less than One Million Dollars (\$1,000,000.00) for all damages arising out of bodily injuries to or the death of two or more persons in any one accident; and Property Damage coverage in the amount of not less than One Million Dollars (\$1,000,000.00) for all damages arising out of injury to or destruction of property.

e. INSURANCE COVERING SPECIAL HAZARDS

Special hazards shall be covered by rider or riders to the Public Liability Insurance and Property Damage Insurance policy or policies herein above required to be furnished by the Contractor, or by separate policies of insurance as follows:

1. Property Damage Liability arising out of the collapse of, or structural injury to any building or structure due to excavation (including borrowing, filling, or back-filling in connection therewith), tunneling, pile driving, cofferdam work, or caisson work, or to moving, shoring, underpinning, razing, or demolition of any building or structure or removal or rebuilding of any structural support thereof.
2. Property Damage Liability for injury to or destruction of property arising, directly or indirectly, from blasting or explosions, however caused, other than explosions of air or steam vessels, piping under pressure, prime movers, machinery or power transmitting equipment.

3. Property Damage Liability for injury or destruction of wires, conduits, pipes, mains, sewers, or other similar property or any apparatus in connection therewith, below the surface of the ground, arising from and during the use of mechanical equipment for the purpose of excavating or drilling within the project limits; injury to or destruction of property at any time resulting there from.
4. The Contractor shall require similar insurance in such amounts to be taken out and maintained by each subcontractor.

f. FIRE INSURANCE

During the progress of work the Contractor shall effect and maintain BUILDER'S RISK INSURANCE ON COMPLETED VALUE FORM against loss by fire, lightning, windstorm, hurricane, cyclone, tornado, hail, explosion, riot, riot attending strike, aircraft, smoke and vehicle damage, vandalism and malicious mischief upon all work in place and all material stored at the building site, whether or not covered by partial payments made by the Owner. This insurance shall be in an amount equal to 100 percent of the insurable portion of the project and shall be for the benefit of the Owner, the Contractor and each Subcontractor as their interest may respectively appear.

If there are any existing adjacent or adjoining structures presently used by the Owner, the risk of the existing adjacent or adjoining structures will be by the Owner.

ARTICLE 5: REMEDIES

REFER TO GENERAL CONDITIONS, ARTICLE 9

ARTICLE 6: REQUIRED SUBMITTALS

The following submittals shall be made in accordance with Article 71 of the General Conditions:

DRAWINGS – Three (3) copies of shop drawings for all materials and equipment to be incorporated into the work shall be submitted to the engineer for review and approval.

ARTICLE 7: TIME FOR COMPLETION AND LIQUIDATED DAMAGES

It is extremely important that the required work be completed within the time frame established by this contract. In the event the contractor fails to deliver the required work within the established schedule, the contractor shall pay liquidated damages in the amount of \$300.00 per calendar day for each day in excess the stated completion date.

END OF SPECIAL CONDITIONS

DIVISION 01 – GENERAL REQUIREMENTS

GENERAL REQUIREMENTS INDEX

SECTION	DESCRIPTION
01000	Summary of Work
01150	Measurement and Payment
01175	Temporary Facilities
01200	As-Built Drawings
01300	Submittals
01400	Quality Controls
01600	Delivery Storage and Handling
13281	Asbestos Abatement

SECTION 01000
SUMMARY OF WORK

PART 1.00 - GENERAL

1.01 DESCRIPTION

The Pawtucket Housing Authority Galego Court Asbestos Abatement project consists of completing asbestos abatement of the basements/crawl spaces within thirteen (13) buildings at the Galego Court residential building complex located at the subject property, 483 Weeden Street, Pawtucket, RI. The work encompassed by this contract shall include, but is not limited to the following:

1. Coordinating with the Housing Authority for accessibility to specified buildings and proper staging areas;
2. Mobilization of all applicable equipment staged within the agreed upon location;
3. Coordination and submittals of all required shop drawings to the Engineer for approval;
4. Obtain all required State and Local permits;
5. Applicable asbestos abatement within the basement/crawl spaces of the buildings;
6. Disposal of all asbestos containing material (ACM);
7. Demobilize from the site following final inspection by the Owner's Representative.

There is no anticipated add alternates for the proposed work.

1.02 SPECIAL REQUIREMENTS

- A. The Contractor will coordinate the construction schedule with the owner's representative to ensure that access to areas is permitted during the planned time.
- B. The Contractor shall be responsible for removing and protecting any equipment that may interfere with the construction operations. Immediately upon completion of construction activities in a given area, the contractor shall be responsible for returning the area to a pre-construction state satisfactory to the owner's representative.
- C. Do not begin work when inclement weather is forecast to occur prior to the anticipated time of completion of the work item.
- D. The Contractor shall be responsible for verifying the existing and forecasted weather conditions to determine when the conditions are acceptable for removal of the existing roofing system.
- E. The Contractor shall be prepared at all times to protect any uncompleted work from the rapid changes in the weather. If work continues during sudden rains the Contractor shall be responsible to protect the interior of the building.

END OF SECTION

SECTION 01150
MEASUREMENT AND PAYMENT

PART 1 GENERAL

- 1.1 This section describes the measurement of and the payment for the work to be done under the items listed in the Bid.
- 1.2 Each Unit or Lump-Sum Price stated in the Bid shall constitute full compensation for all labor, equipment, materials and all incidental and appurtenant work required or necessary to satisfactorily complete the specified work in the accordance with the Drawings and Specifications.
- 1.3 Appurtenant items of work shown on the Drawings or specified or required to complete the work but not listed separately under the list of items in the Bid shall be included in the cost of payment under the various applicable bid items of work and no separate payment will be made for such items. It shall be the responsibility of the Contractor to verify any missing or incomplete items.
- 1.4 All existing work removed or damaged by the Contractor's operations shall be replaced to the satisfaction of the Owner at no additional expense to the Owner.
- 1.5 The limits of work shown on the plans shall be considered to be the pay limits. If the Contractor carries work on beyond the designated limits without prior approval of the Owner or the Owner's Representative, then the Contractor shall restore that additional area at his own expense. Any work conducted beyond the specified pay limits, unless approved in writing by the Owner, shall not be measured for payment.
- 1.6 Estimated quantities of work or any other construction under this contract may change depending on actual field conditions. Any increase or decrease in quantities shall in no way affect this Contract, the unit price of the work item or give cause for claims or liabilities for damages.
- 1.7 Proposed items of work under this Contract are given for use in comparing bids and the right is especially reserved by the Owner to diminish them as may be deemed necessary or desirable by the Owner to meet available funding. Such changes to the proposed items of work shall in no way affect this Contract, nor give cause for claims or liabilities for damages.
- 1.8 The Owner has the right to delete any item or items from the Contract.
- 1.9 All unit prices and bids shall be representative of the work to be undertaken or of items to be supplied. Unbalanced bids shall not be permitted and may be basis for disqualification of the bid.
- 1.10 All work for this project is to be done in accordance with the latest edition of International Building Code as amended, and the specifications accompanying these Contract Documents. Standard details for this project are the details accompanying these Contract Documents.
- 1.11 The Contractor shall include the cost of other indirect and miscellaneous costs in his/her submitted bid items.

2.01 Bid Item 1. Building 10 Abatement

A. Measurement:

Building 10 Abatement shall be measured by a lump sum amount. The work measured under this item shall include but not be limited to, coordination with the Housing Authority and the Owner's Representative on shop drawing submittals and associated work hours and staging areas, post proper signage of possible hazards on site during construction, obtaining required State and Local permits prior to abatement efforts, asbestos abatement of the basement/crawl spaces, in accordance to approved abatement plans prepared by ECM, returning the work areas to original site conditions upon completion following final inspection of the Owner's Representative, as well as all associated activities, completed and accepted by the Engineer. It is the responsibility of the bidder to fully review the asbestos abatement plans prior to commencement of work. No deviation from the abatement plan will be allowed for the duration of the project.

B. Payment:

The accepted quantity for Bid Item 1 shall be paid for at the contract Price of Lump Sum, complete and accepted, including labor, materials, tools, equipment and all other incidentals necessary to complete the work in accordance with the plans, as directed by the Engineer and to the satisfaction of the Owner.

2.02 Bid Item 2. Building 20 Abatement

A. Measurement:

Building 20 Abatement shall be measured by a lump sum amount. The work measured under this item shall include but not be limited to, coordination with the Housing Authority and the Owner's Representative on shop drawing submittals and associated work hours and staging areas, post proper signage of possible hazards on site during construction, obtaining required State and Local permits prior to abatement efforts, asbestos abatement of the basement/crawl spaces, in accordance to approved abatement plans prepared by ECM, returning the work areas to original site conditions upon completion following final inspection of the Owner's Representative, as well as all associated activities, completed and accepted by the Engineer. It is the responsibility of the bidder to fully review the asbestos abatement plans prior to commencement of work. No deviation from the abatement plan will be allowed for the duration of the project.

B. Payment:

The accepted quantity for Bid Item 2 shall be paid for at the contract Price of Lump Sum, complete and accepted, including labor, materials, tools, equipment and all other incidentals necessary to complete the work in accordance with the plans, as directed by the Engineer and to the satisfaction of the Owner.

2.03 Bid Item 3. Building 30-40 Abatement

A. Measurement:

Building 30-40 Abatement shall be measured by a lump sum amount. The work measured under this item shall include but not be limited to, coordination with the Housing Authority and the Owner's Representative on shop drawing submittals and associated work hours and staging areas, post proper signage of possible hazards on site during construction, obtaining required State and Local permits prior to abatement efforts, asbestos abatement of the basement/crawl spaces, in accordance to approved abatement plans prepared by ECM, returning the work areas to original site conditions upon completion following final inspection of the Owner's Representative, as well as all associated activities, completed and accepted by the Engineer. It is the responsibility of the bidder to fully review the asbestos abatement plans prior to commencement of work. No

deviation from the abatement plan will be allowed for the duration of the project.

B. Payment:

The accepted quantity for Bid Item 3 shall be paid for at the contract Price of Lump Sum, complete and accepted, including labor, materials, tools, equipment and all other incidentals necessary to complete the work in accordance with the plans, as directed by the Engineer and to the satisfaction of the Owner.

2.04 Bid Item 4. Building 50-60 Abatement

A. Measurement:

Building 50-60 Abatement shall be measured by a lump sum amount. The work measured under this item shall include but not be limited to, coordination with the Housing Authority and the Owner's Representative on shop drawing submittals and associated work hours and staging areas, post proper signage of possible hazards on site during construction, obtaining required State and Local permits prior to abatement efforts, asbestos abatement of the basement/crawl spaces, in accordance to approved abatement plans prepared by ECM, returning the work areas to original site conditions upon completion following final inspection of the Owner's Representative, as well as all associated activities, completed and accepted by the Engineer. It is the responsibility of the bidder to fully review the asbestos abatement plans prior to commencement of work. No deviation from the abatement plan will be allowed for the duration of the project.

B. Payment:

The accepted quantity for Bid Item 4 shall be paid for at the contract Price of Lump Sum, complete and accepted, including labor, materials, tools, equipment and all other incidentals necessary to complete the work in accordance with the plans, as directed by the Engineer and to the satisfaction of the Owner.

2.05 Bid Item 5. Building 80-90 Abatement

A. Measurement:

Building 80-90 Abatement shall be measured by a lump sum amount. The work measured under this item shall include but not be limited to, coordination with the Housing Authority and the Owner's Representative on shop drawing submittals and associated work hours and staging areas, post proper signage of possible hazards on site during construction, obtaining required State and Local permits prior to abatement efforts, asbestos abatement of the basement/crawl spaces, in accordance to approved abatement plans prepared by ECM, returning the work areas to original site conditions upon completion following final inspection of the Owner's Representative, as well as all associated activities, completed and accepted by the Engineer. It is the responsibility of the bidder to fully review the asbestos abatement plans prior to commencement of work. No deviation from the abatement plan will be allowed for the duration of the project.

B. Payment:

The accepted quantity for Bid Item 5 shall be paid for at the contract Price of Lump Sum, complete and accepted, including labor, materials, tools, equipment and all other incidentals necessary to complete the work in accordance with the plans, as directed by the Engineer and to the satisfaction of the Owner.

2.06 Bid Item 6. Building 100-110 Abatement

A. Measurement:

Building 100-110 Abatement shall be measured by a lump sum amount. The work measured under this item shall include but not be limited to, coordination with the Housing Authority and the Owner's Representative

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on shop drawing submittals and associated work hours and staging areas, post proper signage of possible hazards on site during construction, obtaining required State and Local permits prior to abatement efforts, asbestos abatement of the basement/crawl spaces, in accordance to approved abatement plans prepared by ECM, returning the work areas to original site conditions upon completion following final inspection of the Owner's Representative, as well as all associated activities, completed and accepted by the Engineer. It is the responsibility of the bidder to fully review the asbestos abatement plans prior to commencement of work. No deviation from the abatement plan will be allowed for the duration of the project.

B. Payment:

The accepted quantity for Bid Item 6 shall be paid for at the contract Price of Lump Sum, complete and accepted, including labor, materials, tools, equipment and all other incidentals necessary to complete the work in accordance with the plans, as directed by the Engineer and to the satisfaction of the Owner.

2.07 Bid Item 7. Building 130-140 Abatement

A. Measurement:

Building 130-140 Abatement shall be measured by a lump sum amount. The work measured under this item shall include but not be limited to, coordination with the Housing Authority and the Owner's Representative on shop drawing submittals and associated work hours and staging areas, post proper signage of possible hazards on site during construction, obtaining required State and Local permits prior to abatement efforts, asbestos abatement of the basement/crawl spaces, in accordance to approved abatement plans prepared by ECM, returning the work areas to original site conditions upon completion following final inspection of the Owner's Representative, as well as all associated activities, completed and accepted by the Engineer. It is the responsibility of the bidder to fully review the asbestos abatement plans prior to commencement of work. No deviation from the abatement plan will be allowed for the duration of the project.

B. Payment:

The accepted quantity for Bid Item 7 shall be paid for at the contract Price of Lump Sum, complete and accepted, including labor, materials, tools, equipment and all other incidentals necessary to complete the work in accordance with the plans, as directed by the Engineer and to the satisfaction of the Owner.

2.08 Bid Item 8. Building 150-160 Abatement

A. Measurement:

Building 150-160 Abatement shall be measured by a lump sum amount. The work measured under this item shall include but not be limited to, coordination with the Housing Authority and the Owner's Representative on shop drawing submittals and associated work hours and staging areas, post proper signage of possible hazards on site during construction, obtaining required State and Local permits prior to abatement efforts, asbestos abatement of the basement/crawl spaces, in accordance to approved abatement plans prepared by ECM, returning the work areas to original site conditions upon completion following final inspection of the Owner's Representative, as well as all associated activities, completed and accepted by the Engineer. It is the responsibility of the bidder to fully review the asbestos abatement plans prior to commencement of work. No deviation from the abatement plan will be allowed for the duration of the project.

B. Payment:

The accepted quantity for Bid Item 8 shall be paid for at the contract Price of Lump Sum, complete and accepted, including labor, materials, tools, equipment and all other incidentals necessary to complete the work in accordance with the plans, as directed by the Engineer and to the satisfaction of the Owner.

2.09 Bid Item 9. Building 170 Abatement

A. Measurement:

Building 170 Abatement shall be measured by a lump sum amount. The work measured under this item shall include but not be limited to, coordination with the Housing Authority and the Owner's Representative on shop drawing submittals and associated work hours and staging areas, post proper signage of possible hazards on site during construction, obtaining required State and Local permits prior to abatement efforts, asbestos abatement of the basement/crawl spaces, in accordance to approved abatement plans prepared by ECM, returning the work areas to original site conditions upon completion following final inspection of the Owner's Representative, as well as all associated activities, completed and accepted by the Engineer. It is the responsibility of the bidder to fully review the asbestos abatement plans prior to commencement of work. No deviation from the abatement plan will be allowed for the duration of the project.

B. Payment:

The accepted quantity for Bid Item 9 shall be paid for at the contract Price of Lump Sum, complete and accepted, including labor, materials, tools, equipment and all other incidentals necessary to complete the work in accordance with the plans, as directed by the Engineer and to the satisfaction of the Owner.

2.10 Bid Item 10. Building 180 Abatement

A. Measurement:

Building 180 Abatement shall be measured by a lump sum amount. The work measured under this item shall include but not be limited to, coordination with the Housing Authority and the Owner's Representative on shop drawing submittals and associated work hours and staging areas, post proper signage of possible hazards on site during construction, obtaining required State and Local permits prior to abatement efforts, asbestos abatement of the basement/crawl spaces, in accordance to approved abatement plans prepared by ECM, returning the work areas to original site conditions upon completion following final inspection of the Owner's Representative, as well as all associated activities, completed and accepted by the Engineer. It is the responsibility of the bidder to fully review the asbestos abatement plans prior to commencement of work. No deviation from the abatement plan will be allowed for the duration of the project.

B. Payment:

The accepted quantity for Bid Item 10 shall be paid for at the contract Price of Lump Sum, complete and accepted, including labor, materials, tools, equipment and all other incidentals necessary to complete the work in accordance with the plans, as directed by the Engineer and to the satisfaction of the Owner.

2.11 Bid Item 11. Building 190-200 Abatement

A. Measurement:

Building 190-200 Abatement shall be measured by a lump sum amount. The work measured under this item shall include but not be limited to, coordination with the Housing Authority and the Owner's Representative on shop drawing submittals and associated work hours and staging areas, post proper signage of possible hazards on site during construction, obtaining required State and Local permits prior to abatement efforts, asbestos abatement of the basement/crawl spaces, in accordance to approved abatement plans prepared by ECM, returning the work areas to original site conditions upon completion following final inspection of the Owner's Representative, as well as all associated activities, completed and accepted by the Engineer. It is the responsibility of the bidder to fully review the asbestos abatement plans prior to commencement of work. No deviation from the abatement plan will be allowed for the duration of the project.

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B. Payment:

The accepted quantity for Bid Item 11 shall be paid for at the contract Price of Lump Sum, complete and accepted, including labor, materials, tools, equipment and all other incidentals necessary to complete the work in accordance with the plans, as directed by the Engineer and to the satisfaction of the Owner.

2.12 Bid Item 12. Building 210-220 Abatement

A. Measurement:

Building 210-220 Abatement shall be measured by a lump sum amount. The work measured under this item shall include but not be limited to, coordination with the Housing Authority and the Owner's Representative on shop drawing submittals and associated work hours and staging areas, post proper signage of possible hazards on site during construction, obtaining required State and Local permits prior to abatement efforts, asbestos abatement of the basement/crawl spaces, in accordance to approved abatement plans prepared by ECM, returning the work areas to original site conditions upon completion following final inspection of the Owner's Representative, as well as all associated activities, completed and accepted by the Engineer. It is the responsibility of the bidder to fully review the asbestos abatement plans prior to commencement of work. No deviation from the abatement plan will be allowed for the duration of the project.

B. Payment:

The accepted quantity for Bid Item 12 shall be paid for at the contract Price of Lump Sum, complete and accepted, including labor, materials, tools, equipment and all other incidentals necessary to complete the work in accordance with the plans, as directed by the Engineer and to the satisfaction of the Owner.

2.13 Bid Item 13. Building 230 Abatement

A. Measurement:

Building 230 Abatement shall be measured by a lump sum amount. The work measured under this item shall include but not be limited to, coordination with the Housing Authority and the Owner's Representative on shop drawing submittals and associated work hours and staging areas, post proper signage of possible hazards on site during construction, obtaining required State and Local permits prior to abatement efforts, asbestos abatement of the basement/crawl spaces, in accordance to approved abatement plans prepared by ECM, returning the work areas to original site conditions upon completion following final inspection of the Owner's Representative, as well as all associated activities, completed and accepted by the Engineer. It is the responsibility of the bidder to fully review the asbestos abatement plans prior to commencement of work. No deviation from the abatement plan will be allowed for the duration of the project.

B. Payment:

The accepted quantity for Bid Item 13 shall be paid for at the contract Price of Lump Sum, complete and accepted, including labor, materials, tools, equipment and all other incidentals necessary to complete the work in accordance with the plans, as directed by the Engineer and to the satisfaction of the Owner.

END OF SECTION 01150

SECTION 01175
TEMPORARY FACILITIES

PART 1.00 - GENERAL

1.01 **WORK INCLUDED**

- A. The Contractor shall provide all temporary facilities enumerated herein or required for the proper completion of the work.
- B. Temporary facilities shall include but not limited to:
 - Sanitary Facilities
 - Electrical power
 - Lockable trailer/storage container

PART 2.00 - FACILITIES

2.01 **SANITARY FACILITIES**

- A. Adequate sanitary conveniences for use of workman on the premises, properly secluded from public observance, shall be provided and maintained by the Contractor, in accordance with local and state health requirements, and in such a manner and at such points as shall be approved by these authorities, and their use shall be strictly enforced. Sanitary waste shall be treated and disposed of in a manner satisfactory to the Owner and the local and state authorities. Under no circumstances shall sanitary wastes be allowed to flow on the surface of the ground.

2.02 **ELECTRICAL POWER**

- A. The Contractor shall provide all temporary electrical power required to operate equipment for the duration of the Contract.
- B. The securing of all permits and approvals from the regulating utility companies shall be the responsibility of the Contractor. All unauthorized sources of power, such as from neighboring homes, shall be prohibited.

2.03 **LOCKABLE TRAILER/STORAGE CONTAINER**

- A. The Contractor shall provide a lockable trailer/storage container to safely secure all new equipment and materials.
- B. The Engineer/Owner will designate the storage location.

2.04 **REMOVALS**

- A. The Contractor shall remove and properly dispose of all temporary facilities at the satisfactory completion of the Contract.
- B. All sites utilized for temporary facilities shall be restored to a condition satisfactory to the Owner.

END OF SECTION 01175

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SECTION 01200
AS-BUILT DRAWINGS

PART 1.00 - GENERAL

1.01 WORK INCLUDED

- A. The work under this Section shall include the transmittal to the Engineer of all applicable data relative to as-built conditions as may be required by the Engineer.

PART 2.00 - PRODUCTS

- 2.01 As-built information as specified.

PART 3.00 - EXECUTION

3.01 MARKED-UP PRINTS

- A. The Engineer shall provide the Contractor with an extra set of prints of the Drawings to be used for indicating the locations, elevations and other as-built conditions.
- C. The marked-up prints shall be kept up to date on a daily basis and shall be available for the Owner's inspection at all times. Any inaccuracies or incomplete information shall be correct immediately.
- D. They shall be kept in a safe location by the Contractor, or at the Contractor's option, in the offices of the Owner.
- E. All markings on the prints shall be done neatly with a red pencil.
- F. After review of As-Built by the Engineer and an approval is given, the Engineer shall transmit the revised plans to the Owner via AutoCAD.

END OF SECTION#

SECTION 01300

SUBMITTALS

PART 1 – GENERAL

1.00 REQUIREMENTS INCLUDED

- A. Submit Product Data, Samples and Certifications concurrently as required by Contract Documents and as reasonably requested by the Engineer.
- B. Prepare and submit to the Engineer no later than ten (10) calendar days after receipt of Notice to Proceed (NTP), a list of submittals required by each Specification Section in the Contract Agreement. Submit in accordance with this Section.
- C. Designate in schedule data dates for submission and review of shop drawings, product data and samples, and the date of return.

1.01 PRODUCT DATA

- A. Preparation
 - 1. Annotate each sheet to clearly identify specific product or part installed and specific data applicable to installation.
 - 2. Show performance characteristics and capacities.
 - 3. Show dimensions and clearances required.
 - 4. Indicate specified finish.
 - 5. Indicate only those sheets, which are pertinent to specific product(s) with product clearly identified.
- B. Manufacturer's standard schematic drawings and documents.
 - 1. Modify drawings and diagrams to delete information, which is not applicable to the Work.
 - 2. Supplement standard information to provide information, which is applicable to the Work.

1.02 SAMPLES

- A. Provide a minimum of three (3) office samples, or as otherwise indicated in the Technical Specifications, of sufficient size to clearly illustrate:
 - 1. Functional characteristics of the product, with integrally related parts and attachment devices.
 - 2. Full range of color, texture, and pattern.
 - 3. Samples shall be referenced to applicable section of the specifications.
 - 4. Sample of selected color, texture or finish is to be provided on 4" x 4" (or as appropriate) sample chip. Record sample to match actual material installed.

1.03 MANUFACTURER'S CERTIFICATION OF MATERIALS AND EQUIPMENT

- A. Certification is required for the following systems:
 - 1. Systems requiring certification will be specified in each of the Divisions of the Technical Specifications.

1.04 CONTRACTOR REVIEW

- A. Contractor shall review all submittals prior to transmittal to the Engineer.
 - 1. The Contractor shall consecutively number all shop drawings and product data transmittals. Re-submittals would have the same number of the previous submittal followed by the suffix "A, B, C etc."
 - 2. The transmittal is to contain the project number and the applicable specification section for each product represented on the transmittal.
- B. Apply Contractor's stamp to submittals, initialed or signed by authorized person and dated, certifying: review of submittal, verification of products, field measurements and field construction criteria, and coordination of information within submittal with requirements of Work and the Contract Documents.
- C. Submittals without Contractor's stamp or submittals that, in the Engineer's opinion are incomplete, contain numerous errors, or have not been checked or have only been checked superficially, will be returned without comments. Delays resulting there from shall be solely the Contractor's responsibility.
- D. Clearly note proposed deviations from the Contract Documents on submittals. Submit listing identifying deviations in a format acceptable to the Engineer.
- E. Contractor shall be responsible to ensure quantities and dimensions shown on submittals comply with the requirements of the Contract Documents.

1.05 SUBMISSION REQUIREMENTS

- A. Make submittals promptly in accordance with approved schedule and in such sequence as to cause no delay in the Work. Submittals by Contractor shall be made only through the Engineer.
- B. Number of submittals required:
 - 1. Shop Drawings: Submit one (1) reproducible transparency (sepia) and three (3) opaque reproductions (prints) in addition to what the Contractor will require back.
 - 2. Product Data: Submit copies Contractor requires, plus three (3) originals that will be retained by the Engineer.
 - 3. Samples: Submit two (2) samples of each material or the number required in each specification section.
- C. Submittals shall contain:
 - 1. Date of submission and dates of any previous submissions.
 - 2. Project title and number.
 - 3. Contract identification number.
 - a. The names of:
 - b. Contractor.
 - c. Subcontractor.
 - d. Supplier.
 - e. Manufacturer.
 - 4. Identification of the product, with the specification section number.

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5. Field dimensions, clearly identified as such.
6. Relation to adjacent or critical features of the Work or Materials.
7. Applicable standards, such as ASTM or Federal Specification numbers.
8. Identification of deviations from Contract Documents and justification.
9. Identifications of revisions on re-submittals.
10. Additional information as required by Contract Documents.
11. An 8-in.x 3-in. blank space for Contractor and Engineer stamps.

D. Contractor's responsibility for deviations in submittals from requirements of Contract Documents is not relieved by Engineer and/or Engineer's review of submittals

E. Numbering system established by the Contractor shall be agreeable to Engineer.

1.06 RESUBMISSION REQUIREMENTS

A. Make any corrections or changes in the submittals required by the Engineer, mark number of submission, and resubmit as required until approved.

B. Product Data:

1. Revise initial data, and resubmit as specified for the initial submittal.
2. Indicate any changes which have been made other than those requested by the Engineer.
3. Mark number of submission and resubmit until accepted.

C. Samples: Submit new samples as required for initial submittal. Remove samples, which are "rejected" or designated "resubmit."

1.07 ENGINEER REVIEW RESPONSIBILITIES

A. The Engineer shall review submittals with responsible promptness in accordance with the requirements of the Project Manual.

B. Affix stamp and initials or signature, and indicate requirements for revisions and re-submittal, if any.

C. Return submittals to Contractor and Owner for distribution, or for resubmission within fourteen (14) days of original receipt.

1.08 SUBMITTAL LIST

A. Shop Drawings

1. White 1"x6" Azek Trim;
2. Tuftex Vinyl Corrugated Sheeting.

B. Permits

END OF SECTION 01300

SECTION 01400
QUALITY CONTROL

PART 1 – GENERAL

1.00 RELATED DOCUMENTS

- A. Documents related to this section include, but are not limited to, General Conditions, Special Conditions, Bidding Documents, Technical Specifications and Drawings

1.01 QUALITY CONTROL

- A. The contractor shall be:
1. acceptable to the owner
 2. acceptable and approved by the material manufacturers / suppliers
- B. Any deficiencies noted during construction inspection must be corrected by the contractor and approved by the owner at no additional expense to the owner

1.02 FIELD QUALITY CONTROL

- A. The existing dimensions shown on the plans are approximated and used to describe the scope of work. The contractor shall verify all existing dimensions.
- B. Any discrepancies found must be submitted to the Engineer in writing.

1.03 RANDOM SAMPLING

- A. During the course of work, the owner / engineer may at their discretion secure samples of materials being used from containers at the job site and submit them to an independent laboratory for testing and comparison to specified materials.
- B. If test results prove that a material is not functionally equal to specified material:
1. The Contractor shall pay for all testing
 2. All materials having failed testing that have been installed will be removed and replaced with specified materials at no additional expense to the owner
 3. All materials having failed testing not installed will be removed from the job site and replaced with specified materials at no additional expense to the owner

PART 2 – PRODUCTS

2.00 GENERAL

- A. Comply with quality control, references, specifications and manufacturer's data. Where a conflict exists, the more stringent requirements govern.

PART 3 – EXECUTION

3.00 SUBMITTALS

- A. Provide property owner/engineer a letter from the material manufacturer indicating that the applicator is approved to install their products and will provide warranty for this installation

END OF SECTION 01400

SECTION 01600
DELIVERY, STORAGE AND HANDLING

PART 1 – GENERAL

1.00 RELATED DOCUMENTS

- A. Documents related to this section include, but are not limited to, General Conditions, Special Conditions, Bidding Documents, Technical Specifications and Drawings

PART 2 - DELIVERY, STORAGE AND HANDLING

2.00 DELIVERY OF MATERIALS

- A. Deliver materials to the job-site in new, dry, unopened and well marked containers showing product and manufacturer's name
- B. Deliver materials in sufficient quantity to allow continuity of work

2.01 STORAGE OF MATERIALS

- A. Remove plastic packing shrouds. Cover all stored materials with canvas tarp top to bottom. Secure tarps
- B. Ground Storage: store materials in a secure location as directed by owner/engineer to avoid interference with normal operations of the site

2.02 MATERIAL HANDLING

- A. Handle all materials on site to avoid bending, tearing, or other damage during transportation and installation
- B. Material handling equipment shall be selected and operated so as not to damage existing construction. Do not operate or situate material handling equipment in locations that will hinder smooth flow of vehicular or pedestrian traffic.
- C. Handle all materials in accordance with manufacturer's guidelines

2.03 ENVIRONMENTAL REQUIREMENTS

- A. Do not work when environmental conditions exceed the material manufacturer's guidelines
- B. Protect all unfinished work from rain, water or other harsh environmental conditions
- C. Any damage to materials or existing construction caused by the contractor's failure to protect such shall be repaired or replaced at no additional expense to the owner

END OF SECTION 01600

SECTION 13281

ASBESTOS ABATEMENT

PART 1.00 - GENERAL

1.01 DESCRIPTION OF WORK

A. Work Included:

1. Section 13281 shall only be used as a supplemental technical document to the Rhode Island Department of Health approved asbestos abatement plan.
2. Abatement of asbestos-containing materials (ACM) including furnishing all labor, materials and equipment to perform all work required to safely remove and legally dispose of all asbestos-containing materials. Contractor shall provide all insurance, certifications and licenses necessary for the work.
3. Removal and legal disposal of asbestos containing materials in accordance with these Specifications and all applicable Federal, State, and local government laws, statutes, regulations, ordinances, standards and guidelines. Whenever there is a conflict between applicable requirements and these Specifications, the more stringent provisions apply to the work to be performed hereunder as determined by Engineer.
4. The asbestos removal is being performed to support the potential demolition/rehabilitation of the building basement/crawl space. Asbestos removal will be performed utilizing full containment procedures and abatement procedures approved by the State of Rhode Island Department of Health
5. Engineer is defined as a third party representative, working on behalf of the Owner. Engineer shall provide subcontracted consulting of which possesses licensure as a project monitoring entity and will perform periodic observations to evaluate compliance with the Specifications and State / Federal regulations and assist in locating specified materials subject to abatement.
6. Contractor shall file all necessary notices, obtain all permits and licenses, and pay all governmental taxes, fees, and other costs in connection with the work. Obtain all necessary approvals of all governmental departments having jurisdiction.

B. Related Work

1. No applicable related work sections.

1.02 LOCATION OF WORK AND SITE CONSTRAINTS

- A.** Location of work areas, descriptions, estimated types and quantities of ACM are described in the asbestos abatement plan included within Appendix B of this bid package. If additional ACMs are encountered, Contractor shall notify Engineer immediately and have an asbestos removal team prepared to abate the material.

- B. Temporary Utilities: Currently there are no electricity sources available at the site. The Contractor will be required to provide temporary power during the abatement period. Water is available near the site via a fire hydrant but requires coordination with others prior to use.
- C. For the purposes of bidding, the Contractor shall assume that access to all areas of the building is necessary in order to perform all specified abatement.
- D. "Pre-cleaning" must be performed under containment unless Contractor can demonstrate that the work can be completed without risk of fiber release or worker exposure.

1.03 REFERENCES

- A. Contractor is responsible for determining and adhering to the most recent asbestos removal and disposal requirements established by all applicable federal, state, and applicable local government laws, statutes, regulations, ordinances, standards, and guidelines.
- B. USEPA Regulations for Asbestos, 40 CFR 61, Subpart M, National Emissions Standards for Hazardous Air Pollutants (NESHAPS).
- C. USEPA AHERA Regulations for Asbestos, Asbestos Abatement Projects, 40 CFR 763, Subpart G.
- D. US Department of Labor, Occupational Safety and Health Administration (OSHA) Asbestos Regulations, 29 CFR 1926.1101.
- E. All NIOSH air sampling and evaluation standards.
- F. All applicable local ordinances, regulations, or rules pertaining to asbestos, including its storage, transportation, and disposal.
- G. Rhode Island Fire Safety Code.
- H. National codes and standards including ASTM, ANSI and Underwriters Laboratories, local health and safety codes, ordinances or regulations pertaining to asbestos remediation and all local ordinances.

1.04 SUBMITTALS

- A. Prior to the start of the removal work, Contractor shall prepare and submit to Engineer, all items listed below. No work activities shall commence until these items are reviewed and approved in writing. Submittal data shall be sufficient in detail to allow identification of the particular product or equipment, and to form an opinion as to its conformity to the specification and/or regulations.
- B. The Contractor or the Asbestos Abatement Subcontractor selected must appear on the approved list of Asbestos and Lead Abatement contractors on file at the state of Rhode Island Department of Health (RIDOH).
- C. Award of this Contract may not necessarily be based solely on the

submitted lowest Base Bid amount. The Owner, reserves the right to award this Contract to the Bidder who best meets all contractor qualifications.

1. Detailed work plan showing the proposed methods and materials for sealing each work area airtight (as required by regulatory standard); protecting floors, walls, and other fixed equipment; exact locations and manners of construction of the Decontamination Facility; and number, capacity, and installation and operation details for the portable HEPA-filtered exhaust units.
 2. Detailed work plan for the abatement of intact and damaged friable pipe and fitting cement/insulation.
 3. Detailed work plan for the removal of glazing compounds and caulking materials associated with all window and door systems. This effort requires the removal of heavy metal security type window frames to their rough masonry openings.
 4. Detailed work plan for the abatement of intact and damaged floor tile and mastic.
 5. Detailed work plan for the abatement of intact valve gaskets on sprinkler main.
 6. Detailed work plan for the abatement of intact built up roofing and parapet wall felts.
 7. Documentation of certification of all workers pursuant to applicable state regulations and OSHA-specified medical examinations (with examiner approval).
 8. Proposed waste hauler with copies of all applicable licenses, registrations, and approvals.
 9. A detailed work schedule for each building/area listing the proposed number, dates, and hours of each work shift. Schedule shall encompass the entire project, including notifications, pre-abatement inspections, post abatement inspections, clearance air sampling and final completion.
 10. Copies of all permits, licenses, and/or waste shipment records generated or intended for this project.
 11. A copy of the OSHA-required written Respiratory Protection Program, including a fit testing methodology for respirators, worker medical approvals, and maintenance and decontamination details.
 12. Documentation of Contractor's license issued pursuant to applicable state regulations.
- D. At the completion of the abatement work, Contractor shall submit a final report that includes all disposal records, containment entry logs,

notifications and all air sampling results.

1.05 MONITORING AND FINAL CLEARANCE

- A. Responsibilities – The Engineer, retained by the Owner, shall coordinate appropriate air monitoring for the purpose of determining the effectiveness of containment systems and work procedures, and for certifying work areas as clean following removal and cleanup tasks.
- B. Contractor shall conduct appropriate personnel exposure monitoring to determine compliance with OSHA requirements. A laboratory accredited by the American Industrial Hygiene Association shall analyze all air samples collected by Contractor. Sampling equipment shall be calibrated before and after each use.
- C. Air Quality Standard - All air tests made in proximity to any removal area, and to document "clean air," shall be compared to an air quality standard of 0.01 Fibers per cubic centimeter (f/cc) as required by applicable regulations. If any air sample exceeds the air quality standard, Contractor shall immediately stop all work until the cause is identified and corrected.
- D. Air Monitoring Methods - NIOSH Method 7400 shall be used for measuring levels of airborne asbestos fibers for all air sampling events or as directed by Engineer. All monitoring methods shall comply with the requirements of 29 CFR 1926.1101 and applicable state regulations.
- E. Results - Contractor shall provide Engineer copies of all personnel exposure monitoring results, and shall post results at the work site after obtaining the results, but not later than 48 hours.
- F. Upon completion of all work in any defined work area, Contractor and Engineer shall conduct a final inspection for the purpose of compliance with these specifications and state / federal regulations. Unsatisfactory conditions shall be immediately corrected in a manner specified by regulatory standard, Contractor and Engineer. Final payments shall be approved by Engineer only after Contractor provides a certificate of completion, specified closeout documentation, and all properly completed Waste Disposal Documentation Forms as required by law.
- G. Engineer, retained by the Owner, shall coordinate clearance air sampling prior to removal of any containment areas. If clearance air sample results fail to meet applicable standards, Contractor shall perform additional cleaning and shall pay for additional clearance monitoring, air sample collection and analysis.

1.06 NOTIFICATION OF HAZARD

- A. Contractor shall immediately notify Engineer by telephone, followed by written notice, of any risks of adverse health and safety impacts on the environment, exposure of workers or the general public, or failure to comply with the specifications. Contractor shall promptly notify Engineer of the reason and required resolution of all observed deficiencies, and record them in ink in a hardbound notebook.

1.07 WORKER PROTECTION AND SAFETY

- A. General - Contractor shall comply in all respects with regulatory requirements pertaining to worker health and safety protection, asbestos fiber containment, and exposure control. The requirements shall be closely monitored and strictly enforced throughout all work. Any deficiencies shall be promptly corrected or Contractor shall stop work.
- B. Respiratory Protection - Provide respirators to all workers in accordance with applicable regulations and in accordance with Contractor's Respiratory Protection Program. Respirators must be worn initially and continuously until an assessment can be made and worker exposure is below the PEL. A negative exposure assessment can be made initially if historical air monitoring data during similar projects shows no exposure above the PEL.
- C. Medical Examinations and Recordkeeping - Pursuant to OSHA requirements, Contractor shall provide a replacement and annual medical examination for each worker who enters a removal work area. At a minimum, the medical examination shall comply with 29 CFR 1926.58 (m).

1.08 WORKER QUALIFICATIONS, TRAINING, AND EDUCATION

- A. Contractor is required to have a Rhode Island accredited asbestos Supervisor in each work area at all times work is in progress. Supervisor shall be fluent in English.
- B. Supervisors shall be thoroughly familiar and experienced with asbestos abatement and related work and shall enforce the use of all safety procedures and equipment. He/She shall be knowledgeable of EPA, OSHA, and NIOSH requirements and guidelines. The Supervisor shall be licensed in accordance with applicable state regulations.
- C. Contractor shall at all times enforce strict discipline and good order among its employees, and shall not employ any person not skilled in the work assigned, nor anyone who has not received documented notice of the hazards of asbestos abatement, formal training in the use of respirators, safety procedures, equipment, clothing, and work procedures. All workers shall be licensed in Connecticut and in accordance with applicable state regulations.

PART 2.00 – PRODUCTS

2.01 GENERAL

- A. All materials or equipment delivered to the site shall be unloaded, temporarily stored, and transferred to the work area in a manner which shall not interfere with operation of others at the site, or employee's access and safety.
- B. Damaged or deteriorated materials shall not be used and shall be promptly removed from the premises. Materials that become contaminated with

asbestos-containing material shall be thoroughly cleaned, or sealed in plastic bags or sheeting, labeled, and legally disposed of in an approved, secure landfill.

- C. All materials and equipment shall comply, at a minimum, with all sections of this specification, relevant federal, state, and applicable local codes, and industry standards.

2.02 ABATEMENT EQUIPMENT & SUPPLIES

- A. HEPA-Filtered Exhausts - Air inside each work area shall be exhausted through a High Efficiency Particulate Air (HEPA) filter. Commercially manufactured HEPA-filtered exhaust units, with specification plates intact, must be provided for each work area to attain, at a minimum, four air volume changes per hour and an inward flow of clean air into each work area at the Decontamination Facility of at least 100 feet per minute. The HEPA filter shall be preceded by replaceable prefilters and the unit must be designed so that it cannot be operated unless all filters are in place. The units must also be designed with a gauge to indicate the pressure drop across filters, and lights or audible alarms to indicate that the filters are properly installed, functional, and when they must be changed. Flexible ducting shall be required to allow exhausting to the exterior of the building. No exhaust with any other type of particulate cleaning system (such as electrostatic precipitators) shall be allowed without prior written approval.
- B. Plastic Sheeting ("Poly") and Bags - shall be polyethylene or equivalent with a thickness of at least 6 mil for all applications unless regulations dictate otherwise.
- C. Wetting Agent or Surfactant - shall be 50 percent polyoxyethylene ester and 50 percent polyoxyethylene ether, or equivalent, mixed in the proportion of one ounce surfactant per five gallons of water. The material shall be odorless, non-toxic, non-irritating, and non-carcinogenic. It shall be applied as a mist using a low pressure sprayer recommended by the surfactant manufacturer.
- D. Tape and Glue - shall be capable of sealing plastic joints and attaching plastic to finished surfaces. The bonding strength and resulting seal integrity shall not be affected by mist or water, wetting or encapsulating agent, or any other materials to be used in the work area.
- E. Warning Signs and Labels - shall comply with all federal, state, or local codes and regulations.
- F. Waste Containers and Transportation - shall be suitable for loading, temporary storage, transport, and unloading of contaminated waste without risk of ripping, rupture, or exposure to persons, or emissions to the atmosphere. Transportation methods shall comply with the provisions of 40 CFR 61, Subpart M, and with any state or local hazardous or special waste regulations for temporary storage, transport, and disposal if such codes are enforced in states in which the waste will be stored, transported, or disposed of.

2.03 SAFETY SUPPLIES AND EQUIPMENT

- A. Respirator Types - Provide all workers with appropriate respirator which is approved by NIOSH/MSHA for protection against airborne asbestos, and meets the requirements of the OSHA Asbestos Standard.
- B. Protective Clothing - Provide all workers and approved visitors with disposable coveralls, head and foot coverings, gloves, eye protection (i.e., safety glasses) and half-face respiratory protection including HEPA cartridges.

PART 3.00 - EXECUTION

3.01 GENERAL PREPARATION PROCEDURES

- A. Upon receipt of a Notice to Proceed, Contractor shall meet at the site with Engineer and other applicable parties involved within the Project Team to reach agreement on:
 - 1. Scope and manner of work performance and all schedules.
 - 2. Contractor and supporting vendor vehicle access and parking.
 - 3. Contractor access to the work areas, including approved doors, stairways, and corridors.
 - 4. Location of electrical, water supply and wastewater drain connection points, if available.
 - 5. Determination of all equipment and other items to be removed from the work areas, and the location of temporary storage space, if applicable.
 - 6. Any other logistical factors to minimize interference with public safety and health, and other Contractors' activities.
- B. To comply with applicable regulations, notify appropriate regulatory agencies of abatement activities.
 - 1. Provide the required written notification at least 10 days before the start of the asbestos abatement activity to the United States Environmental Protection Agency and all required state agencies.
 - 2. Provide the required written notification by registered mail to local authorities as required.
 - 3. Obtain and process all applicable forms and permits required.
- C. Prepare the work areas according to the following general sequence of procedures to ensure that proper fiber containment and protection systems are installed before the start any work which could generate airborne asbestos fibers.
 - 1. Erect barricades, post access restriction signs, seal all openings into the work area airtight (including doors, chases, shafts, and other

vertical penetrations), and erect or install Decontamination Facilities and HEPA exhaust systems.

2. Obtain formal approval from Engineer of all preparation work and containment areas before commencing asbestos removal. Engineer shall be given at least 48 hours notification of the intent to start removal work in any work area.

D. Isolation of Electrical Systems (if applicable)

1. Contractor shall confirm that electricity has been terminated inside all buildings. Contractor shall comply with isolation of electrical systems in order to maintain compliance with abatement regulations.
2. The scope of the electrical isolation work covers the protection of electrical equipment that is in areas where asbestos removal work is performed and where the water used for wetting the material before or during removal could possibly contact the equipment and create a hazard.
3. Provide portable electrical panels with ground fault protection for all non-battery power requirements. These panels shall have sufficient capacity for all HEPA exhaust and vacuums, power tools, portable lighting, and all other electrical needs.
4. Provide a licensed electrician to wire the electrical panels in each work area, and to be on call to handle any electrical problem which may arise during the course of the work.
5. All materials and workmanship shall comply with the latest editions of applicable codes, standards, and specifications.
6. Once a work area becomes isolated by containment, only weatherproof lighting and washable tools will be allowed in the area.

3.02 DECONTAMINATION FACILITY

- A. Description - Any person or thing exiting from the work areas must pass through a Decontamination Facility consisting of three separate, adjacent rooms separated by curtained entrances, constructed in accordance with applicable regulations. Packaged nonfriable asbestos which was packaged in a clean environment does not require decontamination in a shower.
- B. Construction - Decontamination Facilities shall be constructed and maintained as specified in applicable regulations and shall be located in areas approved by Engineer.
- C. Manner of Operation - All personnel shall enter the Clean Room, remove and store street clothes, and put on clean protective clothing and respirators; then enter the Equipment Room, put on any additional equipment, and enter the work areas. All personnel exiting the work areas shall enter the Equipment Room, remove and store or dispose of all contaminated clothing and shoes, shower, and then put on street clothing in the Clean Room. Respirators shall be worn into and cleaned in the shower, and dried and stored in the Clean

Room.

- D. Wastewater Disposal - All water from the shower and cleaning hose shall be collected, pumped through a 5.0 micron filter, and then legally drained a sanitary sewer connection or to points approved by Engineer.
- E. Cleaning - Decontamination Facility shall be cleaned using a HEPA-filtered vacuum at least once every shift, or more frequently, if needed, to prevent dust accumulation.
- F. Prohibitions - Smoking, drinking, or eating shall not be permitted in the work area or Decontamination Facility.

3.03 WORK AREA ISOLATION

- A. Preclean any fixed objects or equipment within the work areas by using HEPA vacuum equipment and wet washing except where air samples indicate concentrations of airborne fibers less than 0.01 fibers per cubic centimeter and there is no contamination of any surfaces; then enclose with minimum 6-mil plastic sheeting sealed airtight.
- B. Large areas, doorways, and stairwells, shall be sealed with two layers of 6- mil poly over plywood on 2" x 4" framing.
- C. Protect and isolate the work area for the duration of work by completely sealing off all openings and fixtures (including, but not limited to, floors, walls, heating and ventilation ducts, doorways, corridors, windows, and lighting) using plastic sheeting sealed securely in place. The work area shall be sealed airtight to the extent possible.
- D. Seal airtight all holes or other openings in the ceiling or the floor below in each work area with poly sheeting.

3.04 WORK AREA EXHAUST

- A. Install one or more portable HEPA-filtered exhausts to maintain each work area, including the Decontamination Facility, under negative pressure, and to reduce airborne asbestos fiber concentrations. The exhaust(s) must be capable of providing at least an inward velocity through any unsealed openings, including the Decontamination Facility, of at least 100 fpm, and four full air changes per hour throughout the work area and be capable of sufficient air exhaust to create negative pressure of 0.02 inches of water within the enclosure with respect to the outside area. All exhaust air shall pass through a HEPA filter before being discharged to the exterior of the building.
- B. Deficient air flows shall be immediately reported and work ceased until the situation is corrected.
- C. Exhaust system shall be operated constantly from the time that preparation is completed, until "clean air" certification is obtained.

3.05 APPROVAL OF CONTAINMENT AREAS

- A. After the work area has been prepared as specified, Contractor shall

request an inspection by Engineer. No removal or disturbance of asbestos-contaminated materials or systems is to occur until Engineer, has inspected and approved each separate prepared work area.

- B. Any deficiencies in the preparation work shall be promptly corrected in a manner satisfactory to Engineer.

3.06 ASBESTOS REMOVAL PROCEDURES

- A. FRIABLE ASBESTOS: PIPE INSULATION AND DEBRIS, THERMAL SYSTEM INSULATION (TSI):
 - 1. Establish temporary electrical service, including receptacles and lighting to provide power and lighting throughout the work areas. Provide GFCI devices, temporary power, and temporary lighting installed in compliance with the applicable electrical codes. All installations to be made by a licensed electrician.
 - 2. Regulate sections of the building where abatement will be performed by establishing warning tape and warning signs to demarcate areas of the building where negative pressure enclosures will be constructed.
 - 3. Establish worker/equipment decontamination chamber contiguous to the work area. Post asbestos abatement signs in accordance with OSHA 29 CFR 1926.1101.
 - 4. Establish negative pressure differential between work areas and other areas by the use of acceptable negative pressure equipment.
 - 5. Establish a temporary source of water to each work area to allow for wetting and dust control during asbestos removal operations. Surfactant shall be added to the water to aid in wetting operations.
 - 6. Pre-clean areas containing friable ACM where critical barriers will be installed using HEPA vacuum equipment. Seal off openings to the effected work area. This shall include but not limited to windows, tunnel openings, corridors, doorways, ducts, grills, or any other penetration of the work area with two (2) layers of six (6) mil polyethylene sheeting sealed with duct tape.
 - 7. All porous materials shall be disposed of as ACM. The contractor may elect to dispose of non-porous items as ACM. All non-porous items shall be subject to inspection by the Engineer before removal from containment.
 - 8. Install a manometer to measure the pressure differential between the work area and non-work area. Maintain continuous pressure differential of -0.02 inches of water between the work area and non-work area.
 - 9. All asbestos-containing or asbestos contaminated materials shall be contained within a constant flow negative pressure enclosure system, wetted with amended water and carefully removed to prevent droppage and creation of airborne dust.
 - 10. Once the removal of all asbestos-containing and contaminated material is complete, all surfaces and walls within the area shall be thoroughly cleaned

by wet mopping, followed by thorough drying, and then HEPA vacuumed. A satisfactory encapsulant (lockdown material) shall be applied to all surfaces from which friable asbestos has been removed.

11. Upon completion of abatement from within a contained area, visual inspection and clearance air sampling shall be performed as specified herein.

B. NON-FRIABLE ASBESTOS: FLOOR TILES/MASTICS AND INTERIOR WINDOW FRAME CAULK:

1. Establish temporary electrical service, including receptacles and lighting to provide power and lighting throughout the work areas. Provide GFCI devices, temporary power, and temporary lighting installed in compliance with the applicable electrical codes. All installations to be made by a licensed electrician.
2. Regulate sections of the building where abatement will be performed by establishing warning tape and warning signs to demarcate areas of the building where negative pressure enclosures will be constructed.
3. Establish worker/equipment decontamination chamber contiguous to the work area. Post asbestos abatement signs in accordance with OSHA 29 CFR 1926.1101.
4. Seal off openings to the effected work area. This shall include but not limited to windows, tunnel openings, corridors, doorways, ducts, grills, or any other penetration of the work area with two (2) layers of six (6) mil polyethylene sheeting sealed with duct tape.
5. Establish negative pressure differential between work areas and other areas by the use of acceptable negative pressure equipment.
6. Establish a temporary source of water to each work area to allow for wetting and dust control during asbestos removal operations. Surfactant shall be added to the water to aid in wetting operations.
7. Floor tile, mastic and tar paper shall be removed down to the concrete substrate.
8. Window frame caulk shall be removed down to the brick substrate.

C. NON-FRIABLE ASBESTOS: ASPHALT-BASED ASBESTOS ROOFING FELTS AND PARAPET WALL FELTS REMOVAL:

1. Operations involving the cutting or abrading of asphalt-based asbestos roofing material is considered to release sufficient friable material to constitute an asbestos abatement activity. All work using such equipment must be performed by licensed asbestos workers in a negative pressure enclosure. These restrictions may be lifted if Contractor uses approved slicing equipment or manual means to remove the asbestos materials.
2. Work Procedures
 - i. Perform whatever procedures are necessary including the application

of wet methods and covering materials to ensure that release of asbestos materials is reduced to no visible emissions. Work using any cutting or abrading equipment must be performed in a negative pressure enclosure.

- ii. Remove asbestos roofing materials using tools and equipment specified in regulatory guidance documents.
- iii. Continuously mist the work area as asbestos roofing materials are being removed from the structure.
- iv. All asbestos roofing materials must be removed intact.
- v. All loose debris shall be immediately collected via HEPA vacuum or wet wipe. The vacuum debris and wipe materials shall be segregated and disposed as asbestos contaminated waste.
- vi. Wet methods shall be used whenever operations call for the scraping of resilient roofing materials or cements.
- vii. Treat contaminated substrates (metal flashing components, bases of roof penetrating equipment, brick, masonry, parapet walls, etc.) as ACM or remove the ACM from these substrates or surfaces.
- viii. Waste must be lowered by a crane, hoist or dust-tight chute, in accordance with applicable regulations. ACM shall not be dropped from the roof top

A. FRIABLE ASBESTOS: WINDOW GLAZING COMPOUND DEBRIS

- 1. Establish temporary electrical service, including receptacles and lighting to provide power and lighting throughout the work areas. Provide GFCI devices, temporary power, and temporary lighting installed in compliance with the applicable electrical codes. All installations to be made by a licensed electrician.
- 2. Regulate sections of the building where abatement will be performed by establishing warning tape and warning signs to demarcate areas of the building where negative pressure enclosures will be constructed.
- 3. Establish worker/equipment decontamination chamber contiguous to the work area. Post asbestos abatement signs in accordance with OSHA 29 CFR 1926.1101.
- 4. Provide work area preparation in accordance with the approved AWP, allowing for the use of critical barriers only as described in this section.
- 5. Establish negative pressure differential between work areas and other areas by the use of acceptable negative pressure equipment.
- 6. Establish a temporary source of water to each work area to allow for wetting and dust control during asbestos removal operations. Surfactant shall be added to the water to aid in wetting operations.

7. Pre-clean areas containing friable ACM where critical barriers will be installed using HEPA vacuum equipment. Seal off openings to the effected work area. This shall include but not limited to windows, tunnel openings, corridors, doorways, ducts, grills, or any other penetration of the work area with two (2) layers of six (6) mil polyethylene sheeting sealed with duct tape.
8. All porous materials shall be disposed of as ACM. The contractor may elect to dispose of non-porous items as ACM. All non-porous items shall be subject to inspection by the Engineer before removal from containment.
9. Install a manometer to measure the pressure differential between the work area and non-work area. Maintain continuous pressure differential of -0.02 inches of water between the work area and non-work area.
10. All asbestos-containing or asbestos contaminated materials shall be contained within a constant flow negative pressure enclosure system, wetted with amended water and carefully removed to prevent droppage and creation of airborne dust.
11. Once the removal of all asbestos-containing and contaminated material is complete, all surfaces and walls within the area shall be thoroughly cleaned by wet mopping, followed by thorough drying, and then HEPA vacuumed. A satisfactory encapsulant (lockdown material) shall be applied to all surfaces from which friable asbestos has been removed.
12. Upon completion of abatement from within a contained area, visual inspection and clearance air sampling shall be performed as specified herein.

B. FRIABLE ASBESTOS: MUDDERED PIPE FITTINGS:

1. Establish temporary electrical service, including receptacles and lighting to provide power and lighting throughout the work areas. Provide GFCI devices, temporary power, and temporary lighting installed in compliance with the applicable electrical codes. All installations to be made by a licensed electrician.
2. Regulate sections of the building where abatement will be performed by establishing warning tape and warning signs to demarcate areas of the building where negative pressure enclosures will be constructed.
3. Establish worker/equipment decontamination chamber contiguous to the work area. Post asbestos abatement signs in accordance with OSHA 29 CFR 1926.1101.
4. Provide work area preparation in accordance with the approved AWP, allowing for the use of critical barriers and a single layer of four mil polyethylene on the walls.
5. Establish negative pressure differential between work areas and other areas by the use of acceptable negative pressure equipment.
6. Establish a temporary source of water to each work area to allow for wetting and dust control during asbestos removal operations. Surfactant shall be

added to the water to aid in wetting operations.

7. Pre-clean areas containing friable ACM where critical barriers will be installed using HEPA vacuum equipment. Seal off openings to the effected work area. This shall include but not limited to windows, tunnel openings, corridors, doorways, ducts, grills, or any other penetration of the work area with two
(2) layers of six (6) mil polyethylene sheeting sealed with duct tape.
8. Install a manometer to measure the pressure differential between the work area and non-work area. Maintain continuous pressure differential of -0.02 inches of water between the work area and non-work area.
9. All asbestos-containing or asbestos contaminated materials shall be contained within a constant flow negative pressure enclosure system, wetted with amended water and carefully removed to prevent droppage and creation of airborne dust.
10. Once the removal of all asbestos-containing and contaminated material is complete, all surfaces and walls within the area shall be thoroughly cleaned by wet mopping, followed by thorough drying, and then HEPA vacuumed. A satisfactory encapsulant (lockdown material) shall be applied to all surfaces from which friable asbestos has been removed.
11. Upon completion of abatement from within a contained area, visual inspection and clearance air sampling shall be performed as specified herein.

C. NON-FRIABLE ASBESTOS: VALVE GASKETS AT SPRINKLER MAIN, NON DISTURBANCE REMOVAL

1. Non-friable asbestos containing gaskets have been identified in the valve flanges associated with the sprinkler main. Remove valves as a non-disturbance activity by cutting the piping below the flanges. Cutting into the flange or gaskets will not be permitted unless work is done under a full containment.

D. ENCAPSULATION

1. After all asbestos-containing material is removed from a full containment or the building interior and after the area passes post abatement visual inspection, contractor shall seal all surfaces with a penetrating encapsulation material.
2. The encapsulant shall be prepared according to the manufacturer's specifications, and then applied to the surfaces. All workers shall be provided a Materials Safety Data Sheet (MSDS) on the encapsulant. Workers shall wear appropriate personal protective equipment as designated on the MSDS during encapsulant application.

3.02 WORK AREA CLEANUP, DECONTAMINATION AND WASTE DISPOSAL

A. General Requirements

1. After all asbestos-containing or contaminated materials have been removed, remove all wastes and perform a final cleanup and decontamination of each work area. Final cleaning shall be performed only after all waste is packaged and removed, but before reinstalling, demolishing any equipment, or dismantling any barrier, Decontamination Facility, or protective covering. Cleaning shall be subject to the approval of Engineer and Project Monitor based on a visual inspection, and air testing.

B. Cleaning Methods and Approval

1. All waste containers and removal equipment shall be thoroughly cleaned with a HEPA-filtered vacuum, decontaminated with the use of amended water, and then removed from the work area.
2. All surfaces in the work area shall be thoroughly wiped clean and, after drying, thoroughly decontaminated with a HEPA-filtered vacuuming device and encapsulated.
3. After cleaning, Engineer shall inspect the site. Contractor shall notify the Engineer / project monitor of the anticipated completion of the site cleaning at least 48 hours in advance.
4. If any waste or fibers are observed within the work area during the inspection, Contractor shall perform additional cleanup and decontamination.
5. If the air sample results are above the Air Quality Standard of 0.01 f/cc, Contractor shall perform additional cleaning and decontamination, and the inspection and air tests shall be repeated at the Contractor's expense.
6. If the air sample results are below the Air Quality Standard of 0.01 f/cc, Engineer / project monitor shall give approval for Contractor to remove all protective coverings which do not comprise part of the work area seal, containment barrier, or decontamination facility.
7. Once these items have been properly packaged and removed from the work area as contaminated waste, package and properly dispose of all remaining plastic sheeting, disassemble and remove the Decontamination Facility and HEPA exhausts, and perform a final HEPA vacuuming of all surfaces.

C. Waste Disposal

1. Definition - Asbestos wastes are defined as all building materials and debris, insulation, disposable clothing and protective equipment, plastic sheeting and tape, exhaust systems or vacuum filters, or any abatement equipment that has been contaminated with asbestos and cannot be completely cleaned by vacuuming and by washing in the Decontamination Facility.

2. General Requirements - All asbestos wastes (e.g., pipe lagging, floor tile, transite, etc.) must be handled, packaged, stored, transported, and disposed of as specified in this subsection, and in compliance with all federal, state, and local regulations and codes.
3. Waste Labeling - If waste containers are not already so preprinted, warning labels having waterproof print and permanent adhesive shall be affixed to the lid and/or sides of the containers, whether or not these containers are further packaged. Warning labels shall be conspicuous and legible, and conform to the latest OSHA, EPA and DOT labeling requirements.
4. Waste Packaging - All waste shall be thoroughly wetted when packaged and Contractor shall inspect each bag to observe that water condensation is visible. Insufficiently wetted bags shall be opened, rewetted, and resealed. When a waste bag is full, it shall be securely sealed with tape, and then placed in the designated temporary storage area inside of the work area.

D. Waste Container Removal and Disposal Documentation

1. To comply with the requirement of waste disposal at an approved landfill be documented, Contractor shall remove waste containers from work areas and shall complete appropriate documentation for each load of waste removed from the site.
2. Accurately measure the volume of each container or load of waste removed from the site.
3. Provide legal transportation of the waste to the disposal landfill, and complete or obtain all required licenses, manifests, dump slips, or other forms. Copies of all forms or licenses, and the signed original of the Waste Disposal Form for each waste load, shall be given to Engineer.
4. Waste may be transported to and temporarily stored at a pre-approved off-site storage area owned by Contractor, but it must ultimately be disposed of at the specified landfill before final payments are approved.

END OF SECTION 13281

APPENDIX A

SITE KEY LAYOUT



OVERALL SITE PLAN
SCALE: 1"=100'



VIEW OF ACM PIPE INSULATION



VIEW OF ACM PIPE INSULATION



VIEW OF ACM DEBRIS ON CRAWLSPACE FLOOR



VIEW OF STEAM LINE & ACM INSULATION

NOTE:
PHOTOS OBTAINED BY ECM PERSONNEL DURING INITIAL SITE ASBESTOS INSPECTION EFFORTS.

GALEGO COURT ASBESTOS ABATEMENT SUMMARY			
BUILDING	POSITIVE ACM	LOCATION	ADDITIONAL ABATEMENT NOTES
10	±400 LF INSULATION	CRAWLSPACE	LOOSE ACM DEBRIS ON DIRT FLOOR
20	±400 LF INSULATION	CRAWLSPACE	LOOSE ACM DEBRIS ON DIRT FLOOR
30-40	±600 LF INSULATION	CRAWLSPACE	LOOSE ACM DEBRIS ON DIRT FLOOR
50-60	±600 LF INSULATION	CRAWLSPACE/BOILER	LOOSE ACM DEBRIS ON DIRT FLOOR
80-90	±600 LF INSULATION	CRAWLSPACE/BOILER	LOOSE ACM DEBRIS ON DIRT FLOOR
100-110	±600 LF INSULATION	CRAWLSPACE/BOILER	LOOSE ACM DEBRIS ON DIRT FLOOR
130-140	±600 LF INSULATION	CRAWLSPACE/BOILER	LOOSE ACM DEBRIS ON DIRT FLOOR
150-160	±600 LF INSULATION	CRAWLSPACE/BOILER	LOOSE ACM DEBRIS ON DIRT FLOOR
170	±400 LF INSULATION	CRAWLSPACE	LOOSE ACM DEBRIS ON DIRT FLOOR
180	±600 LF INSULATION	CRAWLSPACE	LOOSE ACM DEBRIS ON DIRT FLOOR
190-200	±600 LF INSULATION	CRAWLSPACE/BOILER	LOOSE ACM DEBRIS ON DIRT FLOOR
210-220	±600 LF INSULATION	CRAWLSPACE/BOILER	LOOSE ACM DEBRIS ON DIRT FLOOR
230	±200 LF INSULATION	CRAWLSPACE	LOOSE ACM DEBRIS ON DIRT FLOOR

- SCOPE OF WORK:
1. COORDINATING WITH THE HOUSING AUTHORITY FOR ACCESSIBILITY TO SPECIFIED BUILDINGS AND PROPER STAGING AREAS;
 2. MOBILIZATION OF ALL APPLICABLE EQUIPMENT STAGED WITHIN THE AGREED UPON LOCATIONS;
 3. COORDINATION AND SUBMITTALS OF ALL REQUIRED SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL;
 4. OBTAIN ALL REQUIRED STATE AND LOCAL PERMITS;
 5. APPLICABLE ASBESTOS ABATEMENT WITHIN THE BASEMENT/CRAWL SPACES OF THE BUILDING IN ACCORDANCE TO THE ABATEMENT PLANS PREPARED BY ENVIRONMENTAL CONSULTING AND MANAGEMENT (ECM);
 6. DISPOSAL OF ALL ASBESTOS CONTAINING MATERIAL (ACM) INCLUDING PIPE INSULATION & LOOSE DEBRIS;
 - CONTRACTOR TO VERIFY QUANTITY OF ACM;
 7. DEMOBILIZE FROM THE SITE FOLLOWING FINAL INSPECTION BY THE OWNER'S REPRESENTATIVE.



PREPARED FOR:
PAWTUCKET HOUSING AUTHORITY
GALEGO COURT
483 WEEDEN STREET
PAWTUCKET, RI 02860

CONTRACT BID
DOCUMENTS

SHEET TITLE:
SITE KEY LAYOUT
GALEGO COURT
ASBESTOS ABATEMENT

Project No.: 7180-27
Designed By: EMD
Drawn By: EMD
Checked By: RCM
Date: JULY 2022
Scale: AS SHOWN

APPENDIX B

ASBESTOS ABATEMENT PLANS

Asbestos Abatement Plan

Pawtucket Housing Authority Galego Court Building 10 - Crawlspace

Prepared for:

**ESM
1005 Main Street
Pawtucket, RI 02860**

Prepared by:



June 2022

RHODE ISLAND DEPARTMENT OF HEALTH

NOTARIZED CERTIFICATION OF ASBESTOS AMENDED ABATEMENT PLAN

Facility: **Galego Court – Building 10**

Address: **483 Weeden Street**

City/Town: **Pawtucket**

Zip: **02860**

Amendment Phase No:

Abatement Plan Written By: **Joseph M. Lepore**

Certification No: **APD00661**

Summary of specific waivers/variances being requested: **Pre-abatement air samples**

Type of Asbestos Abatement ☒ Removal ☐ Enclosure ☐ Encapsulation
☐ Demolition ☒ Glovebag ☐ Asphalt Roofing
☐ Other (specify) _____

Is this plan being submitted in response to a Notice of Violation and/or a Notice of Requirement to Submit an Asbestos Abatement Plan? ☐ Yes ☒ No

If yes, Indicate Notice/Building Evaluation No(s):

Contractor: **To be determined**

License No:

Estimated Starting Date: **07/20/2022**

Pre-Abatement Sampling Information

Bulk Samples Collected By: **Joseph M. Lepore**

Certification No: **AI00661**

Bulk Samples Analyzed By: **San Air Labs.**

Certification No: **PLM00126**

Air Samples Analyzed By: **NA**

Certification No: **NA**

Clearance Air Sampling Information

Air Samples to be Collected By: **ECM Inc. Personal**

Air Samples to be Analyzed By: **ECM Inc.**

Certification No: **PCM00131**

CERTIFICATION

I certify that: this asbestos abatement plan is prepared and submitted under the provisions of Section 23-24.5-6 of the RI Asbestos Control Act and Parts A and C of the RI Rules and Regulations for Asbestos Control; all abatement/management activities performed in conjunction with this plan must be in compliance with the specifications prescribed in this plan (when approved) and the most current revision of all applicable federal and state regulations; and the asbestos abatement/management activities described in this plan must be performed by a RI licensed asbestos abatement contractor.

Certified by: *Paula McFarlane* Title: *Executive Director*
JESSICA A. FRIANO, Acting Owner or Agent
NOTARY PUBLIC Date: *7/13/22*
STATE OF RHODE ISLAND
Subscribed and sworn before me this *13* day of *July*, 20 *22*
My Commission Expires: *2/19/2024*

(Notary Public)

AFFIX NOTARY SEAL HERE

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
Department of Health
Office of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

1. Building Owner's Name:

Pawtucket Housing Authority

2. Application Prepared By:

Joseph M. Lepore

RI certification No: **AAC-0661**

Telephone No: **401-304-6614**

3. Building Owner's Mailing Address and Telephone Number:

Street: **214 Roosevelt Ave**

City/Town: **Pawtucket**

Zip: **02860**

Telephone No.: **401-721-6000**

(Area Code, No., Ext.)

4. Person to be contacted regarding this application:

Name: **Nicholas Toth**

Telephone No: **401-721-6044**

(Area Code, No., Ext.)

5. Location where abatement work will be performed:

Name (if applicable): **Building 10 Crawlspace**

Street: **483 Weeden Street**

City/Town: **Pawtucket**

Zip: **02860**

6. Is this application being submitted in response to a "Notice of Requirement to Submit an Asbestos Abatement plan"? () Yes (X) No

If Yes, what is the due date for submittal of Abatement plan? _____
(Mo.) (Day) (Yr.)

Evaluation Number on the Notice: _____

7. Contractor who will be performing abatement work (if selected):

Name: **To be determined**

R.I. License No.:

8. Estimated Starting Date of Abatement Work

07
(Month)

20
(Day)

2022
(Year)

9. Estimated Completion Date of Abatement Work:

12
(Month)

31
(Day)

2022
(Year)

10. Type of Asbestos Abatement:

(Check all that apply)

☒ Removal

☐ Enclosure

☐ Encapsulation

☐ Demolition

☐ Operations and Maintenance Only

☐ Asphalt Roofing

11. Type of Building:

☐ School

☐ Privately Owned Building

☒ Publicly Owned Building

☐ Residence

☐ Other (Specify) _____

12. Building Access:

☐ Public Access (\geq 25% of Building Area)

☒ Limited Public Access ($<$ 25% of Building Area)

☐ No Public Access

13. Bulk Sample Collection and Analysis:

A). Person collecting bulk samples:

Name: **Joseph M. Lepore**

RI Certification No.: **AI00661**

B). Sampling Methodology:

☐ EPA AHERA Sampling requirements [40 CFR 763.86].

☒ EPA's Asbestos Containing Material in School Buildings: A Guidance Document (EPA-405/2-78-014) or Guidance for Controlling Asbestos Containing Materials – 1985 Edition (EPA-560-5-85-024)

☐ Other (Specify) _____

C). Laboratory performing the analysis of the bulk samples

Name: **San Air Labs**

RI Certification No.: **PLM00126**

D). Analytical Methodology:

☒ EPA Interim Method for the Determination of Asbestos in Bulk Insulation Samples [PLM method only].

☐ Other (Specify) _____

14. Pre-Abatement Air Sample Collection and Analysis:

A). Person collecting pre-abatement air samples:

Name: **NA**

Affiliation: **NA**

B). Laboratory performing analysis of pre-abatement air samples.

Name: **NA**

RI Certification No.: **NA**

C). Methodology used in the collection and analysis of pre-abatement samples:

☒ (X) NIOSH Method 7400 [Most Current Revision]

☐ () OSHA 29 CFR 1926.1101 – Appendix A & B

☐ () Other (Specify)

15. A. Indicate how the regulated asbestos containing material (RACM) will be removed from the abatement site. If a hauler or broker will be used to transport the RACM to a disposal site, they must also be identified.

To be determined _____

- B. Provide the name and location of the authorized asbestos waste facility to which the removed material will be transferred for disposal (if known).

To be determined _____

16. Person designated as compliance monitor for abatement work. **[NOT REQUIRED]**

Name: **ECM Inc. Personnel**

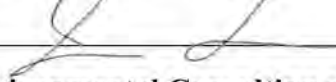
Affiliation: **Environmental Consulting and Management Inc. (ECM Inc.)**

1. In-Process & Clearance Air Sampling: **See Attachment #1**
 - A. Describe on an attachment the type, number and location of air samples that will be collected outside the work area during the abatement project.
 - B. Describe on an attachment the plan of action to be followed if the Indoor Non-Occupational Air Exposure Standard for Asbestos (0.01 fibers per cubic centimeter) is exceeded outside the work area during the abatement project.
 - C. Describe on an attachment the type, number and location of air samples that will be collected as part of the final clearance testing.
 - D. Describe on an attachment the plan of action to be followed if the Indoor Non-Occupational Air Exposure Standard for Asbestos (0.01 fiber per cubic centimeter) is exceed during final clearance testing.
-

2. A separate and fully completed Form ASB-16A must be submitted for each area to be abated. List below the entry in Item 1 from each attached ASB-16A.

Area 1 –Crawlspace

3. I certify that this plan was prepared by me and I am responsible for its content.

Signature:  Date 06 16 2022
(Month) (Day) (Year)
Affiliation: **Environmental Consulting and Management, Inc**

4. ASBESTOS ABATEMENT PLAN APPLICATION FEE:

() Operation & Maintenance Only	\$ 75
() Up to One (1) NESHAP Unit	\$ 75
() Between One (1) & Ten (10) NESHAP Units	\$ 300
() Between Ten (10) & Fifty (50) NESHAP Units	\$ 600
() Over Fifty (50) NESHAP Units	\$ 900
(X) RI State Agency Waived Application Fee	

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Health

Office of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

SUPPLEMENTAL INFORMATION: AREA DESCRIPTION AND PROPOSED REMEDY

BUILDING LOCATION: 483 Weeden Street, Pawtucket, RI – Building 10

INSTRUCTIONS: All items on this form must be addressed. All references to attachments must be clearly identified. All attachments must be marked with the specific item numbers on this form to which they pertain.

(1) Area Location/Identification (Room Name/No., Evaluation Number, etc.):

Area 1 – Crawlspace

(2) Attach a description of each type (e.g. pipe, ceiling, etc.) of regulated asbestos containing material (RACM) in this area, including condition, location, quantity and asbestos content. Attach a copy of the laboratory report(s) for all samples. (NOTE: All laboratory reports must include the name of the building(s) and the location(s) of the sample(s).

Refer to Attachment #2

(3) Attach a current scale drawing of this area, showing direction of North and East, which has been clearly annotated to show the type, location and quantity of all RACM in this area. This drawing must include a legend which acts as a guide to the scale, symbols and nomenclature used in the drawing. If a master plan or multiple drawings are provided, indicate the specific location(s) and drawing number(s) which depict this area. The location of the decontamination chamber must also be so indicated on the appropriate drawing(s).

Refer to Attached Building Drawing

(4) PROPOSED REMEDIES:

A). Attach a description of the interim Operations and Maintenance Plan that will be implemented in accordance with C.1.2 (b).

Refer to Attachment #3

(4) PROPOSED REMEDIES (cont.):

B). Will any portion of this area be abated by use of B.8 work procedures?

☒ Yes ☐ No

If Yes, indicate below which RACM in this area will be abated by use of the following B.8 work procedures:

B.8.2 & B.8.3 [REMOVAL]

B.8.2 & B.8.4 [ENCAPSULATION]

B.8.2 & B.8.5 [ENCLOSURE]

B.8.6 [DEMOLITION]

B.8.7 [GLOVEBAG] **Pipe insulation**

B.8.8 [ASP. ROOFING]

C). Are you requesting any waivers to the above selected B.8 procedure for any of the abatement activities in this area?

☒ Yes ☐ No **Pre-abatement air sampling**

If yes, attach a detailed description of the waivers requested you are proposing to utilize.

All items must be keyed to the specific section(s) of the regulations for which waivers are requested.

D). Are you proposing alternative procedures under B.11 for any of the abatement activities in this area?

☒ Yes ☐ No **See Attachment 4**

If yes, attach a detailed description of the alternate procedures requested you are proposing to utilize. Alternate procedures must include a justification for not following specific

section(s) of the regulations and be as protective of public health.

E). Will any RACM remain in this area after abatement?

☐ Yes ☐ No ☒ Beyond scope of inspection

If Yes, attach a description of the RACM that will remain and the details of the on-going Operations and Maintenance Plan that will be implemented in accordance with C.1.2(b).

AGENCY USE ONLY

ATTACHMENT #1

In Process and Clearance Air Sampling

- A. If requested by the building owner, ECM will be on site for part time monitoring and will collect one compliance air sample outside the containment area daily for the duration of asbestos removal operations inside this building. The sample will be collected outside the decontamination unit.
- B. Any deviation in proper procedures on the part of the contractor shall be reported to the building owner. This includes inadequate paperwork on site, disagreement and/or any deviation from previously outlined work procedures, or if compliance samples in the work area vicinity exceed 0.01 f/cc. The contractor's work shall then be stopped, without repercussion to the building owner or the project-monitoring firm until any conflicts and/or problems have been resolved.

- C. After the interior areas have passed the consultant's visual inspection, he or his authorized representative will collect the following air samples and the corresponding required blanks:

Area 1 – A minimum of 4 PCM clearance air samples will be collected from the crawlspace.

- D. If clearance monitoring after clean-up results in fiber concentrations in excess of the RI rules and regulation clearance air requirements, the project area shall be wet-cleaned, misted with water, and encapsulated with a liquid encapsulant. A period of no less than 24 hours shall elapse before the next set of clearance air samples can be collected. The sampling process shall be repeated until a satisfactory clearance air level is attained.

The asbestos contractor is held responsible for any costs associated with the re-cleaning and re-sampling of an area should clearance air samples exceed 0.01 f/cc.

ATTACHMENT #2

ASB-16A-2

POSITIVE ASBESTOS CONTAINING MATERIALS:

There is approximately 400lf of asbestos containing pipe insulation located within the crawlspace of building 10.

Visible pipe insulation debris was observed on the dirt floor within the crawlspace.

It is the contractor's responsibility to verify all quantities.

ATTACHMENT #2

(Continued)

1. Bulk Sample Results



Analysis Report
prepared for
Environmental Consulting & Management Inc

Report Date: 4/11/2022

Project Name: Galego Court - Crawlspace

Project #: 220155

SanAir ID#: 22016284



NVLAP LAB CODE 200870-0

10501 Trade Court | North Chesterfield, Virginia 23236
888.895.1177 | 804.897.1177 | fax: 804.897.0070 | IAQ@SanAir.com | SanAir.com



SanAir ID Number

22016284

FINAL REPORT

4/11/2022 10:17:12 AM

Name: Environmental Consulting & Management Inc
Address: 50 Kickemuit Ave
Bristol, RI 02809
Phone: 401-438-1360

Project Number: 220155

P.O. Number:

Project Name: Galego Court - Crawlspace

Collected Date: 4/1/2022

Received Date: 4/4/2022 10:15:00 AM

Dear Joseph M. Lepore,

We at SanAir would like to thank you for the work you recently submitted. The 17 sample(s) were received on Monday, April 04, 2022 via UPS. The final report(s) is enclosed for the following sample(s): 1A, 2A, 3A, 3B, 4A, 4B, 5A, 6A, 7A, 8A, 8B, 9A, 9B, 9C, 10A, 10B, 11A.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

A handwritten signature in black ink that reads "Sandra Sobrino". The signature is written in a cursive, flowing style.

Sandra Sobrino
Asbestos & Materials Laboratory Manager
SanAir Technologies Laboratory

Final Report Includes:

- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

Sample conditions:

- 17 samples in Good condition.



SanAir ID Number
22016284
FINAL REPORT
4/11/2022 10:17:12 AM

Name: Environmental Consulting & Management Inc
Address: 50 Kickemuit Ave
Bristol, RI 02809
Phone: 401-438-1360

Project Number: 220155
P.O. Number:
Project Name: Galego Court - Crawlspace
Collected Date: 4/1/2022
Received Date: 4/4/2022 10:15:00 AM

Analyst: Moore, Brandi

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
1A / 22016284-001 Insulation Bldg 10 Crawlspace	White Non-Fibrous Homogeneous		80% Other	15% Chrysotile 5% Amosite
2A / 22016284-002 Insulation Debris Bld 10 Crawlspace	White Non-Fibrous Homogeneous	10% Cellulose	70% Other	15% Chrysotile 5% Amosite
3A / 22016284-003 Insulation On Steam Line Bldg 20	White Non-Fibrous Heterogeneous	5% Cellulose	82% Other	10% Amosite 3% Chrysotile
3B / 22016284-004 Insulation On Steam Line Bldg 20	White Non-Fibrous Heterogeneous	5% Cellulose	80% Other	10% Amosite 5% Chrysotile
4A / 22016284-005 Insulation On Steam Line Bldg 40	White Non-Fibrous Heterogeneous		85% Other	10% Amosite 5% Chrysotile
4B / 22016284-006 Insulation On Steam Line Bldg 40	White Non-Fibrous Homogeneous		84% Other	8% Amosite 8% Chrysotile
5A / 22016284-007 Insulation Debris Bldg 50	Grey Fibrous Homogeneous	15% Cellulose	63% Other	15% Amosite 7% Chrysotile
6A / 22016284-008 Insulation Debris Bldg 30	Grey Fibrous Homogeneous		40% Other	60% Chrysotile
7A / 22016284-009 Steam Line Bldg 50	White Non-Fibrous Homogeneous		70% Other	20% Chrysotile 10% Amosite
8A / 22016284-010 Debris - Bldg 100 Crawlspace	Grey Fibrous Homogeneous		40% Other	60% Chrysotile

Analyst: *Brandi Moore*

Approved Signatory: *Jonathan Wilson*

Analysis Date: 4/11/2022

Date: 4/11/2022



SanAir ID Number

22016284

FINAL REPORT

4/11/2022 10:17:12 AM

Name: Environmental Consulting & Management Inc
Address: 50 Kickemuit Ave
Bristol, RI 02809
Phone: 401-438-1360

Project Number: 220155**P.O. Number:****Project Name:** Galego Court - Crawlspace**Collected Date:** 4/1/2022**Received Date:** 4/4/2022 10:15:00 AM

Analyst: Moore, Brandi

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
8B / 22016284-011 Debris - Bldg 100 Crawlspace	White Non-Fibrous Heterogeneous		80% Other	10% Chrysotile 10% Amosite
9A / 22016284-012 Insulation In Above Ground Boiler Rooms Wood Bldgs, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
9A / 22016284-012 Insulation In Above Ground Boiler Rooms Wood Bldgs, Wrap	White Non-Fibrous Heterogeneous	30% Cellulose 15% Glass	55% Other	None Detected
9B / 22016284-013 Insulation Wood Bldg Boiler Rooms, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
9B / 22016284-013 Insulation Wood Bldg Boiler Rooms, Wrap	White Non-Fibrous Heterogeneous	30% Cellulose	70% Other	None Detected
9C / 22016284-014 Insulation Wood Bldg Boiler Rooms, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
9C / 22016284-014 Insulation Wood Bldg Boiler Rooms, Wrap	White Non-Fibrous Heterogeneous	30% Cellulose 15% Glass	55% Other	None Detected
10A / 22016284-015 Breaching On New Furnaces - Bldg 30, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
10A / 22016284-015 Breaching On New Furnaces - Bldg 30, Wrap	White Fibrous Heterogeneous	85% Glass	15% Other	None Detected
10B / 22016284-016 Breaching On New Furnaces - Bldg 30, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected

Analyst: *Brandi Moore*Approved Signatory: *Jonathan Wilson*

Analysis Date: 4/11/2022

Date: 4/11/2022



SanAir ID Number

22016284

FINAL REPORT

4/11/2022 10:17:12 AM

Name: Environmental Consulting & Management Inc
Address: 50 Kickemuit Ave
Bristol, RI 02809
Phone: 401-438-1360

Project Number: 220155
P.O. Number:
Project Name: Galego Court - Crawlspace
Collected Date: 4/1/2022
Received Date: 4/4/2022 10:15:00 AM

Analyst: Moore, Brandi

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
10B / 22016284-016 Breaching On New Furnaces - Bldg 30, Wrap	White Fibrous Heterogeneous	85% Glass	15% Other	None Detected
11A / 22016284-017 Wallboard Bldg 20 Boiler Room, Wallboard	Grey Non-Fibrous Homogeneous	5% Cellulose	95% Other	None Detected
11A / 22016284-017 Wallboard Bldg 20 Boiler Room, Joint Compound	White Non-Fibrous Homogeneous		100% Other	None Detected

Analyst:

Brandi Moore

Approved Signatory:

Johnathan Wilson

Analysis Date: 4/11/2022

Date: 4/11/2022

Disclaimer

This report is the sole property of the client named on the SanAir Technologies Laboratory chain-of-custody (COC). Results in the report are confidential information intended only for the use by the customer listed on the COC. Neither results nor reports will be discussed with or released to any third party without our client's written permission. The final report shall not be reproduced except in full without written approval of the laboratory to assure that parts of the report are not taken out of context. The information provided in this report applies only to the samples submitted and is relevant only for the date, time, and location of sampling. The accuracy of the results is dependent upon the client's sampling procedure and information provided to the laboratory by the client. SanAir assumes no responsibility for the sampling procedure and will provide evaluation reports based solely on the sample(s) in the condition in which they arrived at the laboratory and information provided by the client on the COC, such as: project number, project name, collection dates, po number, special instructions, samples collected by, sample numbers, sample identifications, sample type, selected analysis type, flow rate, total volume or area, and start stop times that may affect the validity of the results in this report. Samples were received in good condition unless otherwise noted on the report. SanAir assumes no responsibility or liability for the manner in which the results are used or interpreted. This report does not constitute and shall not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any other U.S. governmental agencies and may not be certified by every local, state, and federal regulatory agencies.

Samples are held for a period of 60 days. Fibers smaller than 5 microns cannot be seen with this method due to scope limitations.

For NY state samples, method EPA 600/M4-82-020 is performed.

NYELAP Disclaimer:

Polarized- light microscopy is not consistently reliable in detecting asbestos in floor covering and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

Asbestos Certifications

NVLAP lab code 200870-0

City of Philadelphia: ALL-460

PA Department of Environmental Protection Number: 68-05397

California License Number: 2915

Colorado License Number: AL-23143

Connecticut License Number: PH-0105

Massachusetts License Number: AA000222

Maine License Number: LB-0075, LA-0084

New York ELAP lab ID: 11983

Rhode Island License Number: PCM00126, PLM00126, TEM00126

Texas Department of State Health Services License Number: 300440

Commonwealth of Virginia 3333000323

Washington State License Number: C989

West Virginia License Number: LT000616

Vermont License: AL166318

Louisiana Department of Environmental Quality: 212253, Cert 05088

Revision Date: 8/14/2020



10501 Trade Ct., Suite 100
N. Chesterfield, VA 23236
804.897.1177 / 888.895.1177
Fax 804.897.0070
sanair.com

Asbestos
Chain of Custody
Form 140, Rev 6, 1/26/2022

SanAir ID Number

22016284

Company: Environmental Consulting & Management Inc	Project #: 220155	Collected by: Joe Lepore
Address: 50 Kickemuit Ave	Project Name: Galego Court - Crawlspace	Phone #: 401-438-1380
City, St., Zip: Bristol, RI 02809	Date Collected: 4/1/2022	Fax #: 401-438-1316
State of Collection: RI Account#: 2667	P.O. Number:	Email: JLepore@ECMNE.com

Bulk			Air			Soil		
ABB	PLM EPA 600/R-93/116	<input checked="" type="checkbox"/>	ABA	PCM NIOSH 7400	<input type="checkbox"/>	ABSE	PLM EPA 600/R-93/116 (Qual.)	<input type="checkbox"/>
	Positive Stop	<input type="checkbox"/>	ABA-2	OSHA w/ TWA*	<input type="checkbox"/>	Soil		
ABEPA	PLM EPA 400 Point Count	<input type="checkbox"/>	ABTEM	TEM AHERA	<input type="checkbox"/>	ABSP	PLM CARB 435 (LOD <1%)	<input type="checkbox"/>
ABB1K	PLM EPA 1000 Point Count	<input type="checkbox"/>	ABATN	TEM NIOSH 7402	<input type="checkbox"/>	ABSP1	PLM CARB 435 (LOD 0.25%)	<input type="checkbox"/>
ABBen	PLM EPA NOB**	<input type="checkbox"/>	ABT2	TEM Level II	<input type="checkbox"/>	ABSP2	PLM CARB 435 (LOD 0.1%)	<input type="checkbox"/>
ABBCH	TEM Chatfield**	<input type="checkbox"/>	Other:		<input type="checkbox"/>	Dust		
ABBTM	TEM EPA NOB**	<input type="checkbox"/>	New York ELAP			ABWA	TEM Wipe ASTM D-6480	<input type="checkbox"/>
ABQ	PLM Qualitative	<input type="checkbox"/>	ABEPA2	NY ELAP 198.1	<input type="checkbox"/>	ABDMV	TEM Microvac ASTM D-5755	<input type="checkbox"/>
			ABENY	NY ELAP 198.6 PLM NOB	<input type="checkbox"/>			
			ABBNY	NY ELAP 198.4 TEM NOB	<input type="checkbox"/>			
Water						Matrix Other		
ABHE	EPA 100.2	<input type="checkbox"/>						

** Available on 24-hr. to 5-day TAT

Turn Around Times	3 HR (4 HR TEM) <input type="checkbox"/>	6 HR (8HR TEM) <input type="checkbox"/>	12 HR <input type="checkbox"/>	1 Day <input type="checkbox"/>
	<input type="checkbox"/> 2 Days	<input type="checkbox"/> 3 Days	<input checked="" type="checkbox"/> 4 Days	<input type="checkbox"/> 5 Days

Special Instructions



Sample #	Sample Identification/Location	Volume or Area	Sample Date	Flow Rate*	Start - Stop Time*
1A	Insulation Bldg 10 Crawlspace				
2A	Insulation Debris Bldg 10 Crawlspace				
3A	Insulation on Steam line Bldg 20				
3B	" "				
4A	Insulation on Steam line Bldg 40				
4B	" "				
5A	Insulation Debris Bldg 50				
6A	Insulation Debris Bldg 30				
7A	Steam Line Bldg 50				
8A	Debris - Bldg 100 Crawlspace				
8B	" "				
9A	Insulation in above Ground Boiler Rooms Wood Bldgs				

Relinquished by	Date	Time	Received by	Date	Time
	4/1/2022		ZAO	4/4/22	10:52

If no technician is provided, then the primary contact for your account will be selected. Unless scheduled, the turnaround time for all samples received after 3 pm EST will be logged in the next business day. Weekend or holiday work must be scheduled ahead of time and is charged at 150% of the 3hr TAT or a minimum charge of \$150. A courier charge will be applied for same day and one-day turnaround times for offsite work. SanAir covers Ground and Next Day Air shipping. Shipments billed to SanAir with a faster shipping rate will result in additional charges.

[illegible]

Special Instructions	
-----------------------------	--

Relinquished by	Date	Time	Received by	Date	Time
	4/1/2022			4/1/22	10:15

ATTACHMENT #3

Interim Operations & Maintenance Plan

The contractors associated with Galego Court are aware of the presence and location of ACM within the above stated areas. They have been instructed not to disturb the material due to the potential health hazards if fibers become airborne.

1. Notification

All building occupants, also any contractors entering the building and/or premises to perform work, shall be notified of the presence and location of asbestos-containing material(s) and cautioned regarding disturbance of the material(s). Also, the building occupants must be notified regarding the occurrence of asbestos abatement activities. If an emergency fiber release occurs, the following procedures shall be initiated.

2. Fiber Release Episodes

A. Minor Release Episode

If a minor fiber release episode occurs (release of less than 10 linear feet or 25 square feet of material), trained maintenance staff may perform the cleaning. Access to the area shall be restricted during clean-up. All debris shall be thoroughly wetted using amended water and placed in labeled, double six-mil polyethylene bags. The area shall then be cleaned using HEPA filtered vacuums and/or wet cleaning methods. Damaged material must be cleaned and repaired with non-asbestos-containing material. The area shall then be evaluated to decide if further action is necessary.

B. Major Release Episode

If a major fiber release episode occurs (falling or dislodging of more than 10 linear feet or 25 square feet of ACM), the cleaning must be carried out and directed by persons accredited to conduct and design response actions. After such an episode, the area shall be immediately restricted and entry to the area prevented. Warning signs shall be posted to caution people other than those qualified to deal with the problem. Air handling units in the area shall be shut down to prevent the spread of fibers beyond the problem area. A response action shall be designed and carried out by qualified personnel.

3. Training

Any employee who, because of their work, may disturb asbestos-containing material shall be trained and certified as a Competent Person as described by the RI Rules and Regulations for Asbestos Control. The program coordinator shall ensure that the procedures described above to protect the building occupants shall be followed for any operations and maintenance activities disturbing or involving ACM.

ATTACHMENT #4

Scope of Work / Description of Waivers

All proper OSHA, federal, state, and local safety regulations shall be followed.

Request of Waivers:

PHA and ECM are requesting a waiver of pre-abatement air samples for the crawlspace. The area is not meant for long term human occupancy. Due to dirt floor and miscellaneous debris within the space obtaining readable samples is not possible. All individuals entering the crawlspace prior to abatement must wear at a minimum half face respirator with HEPA filters and disposable coveralls.

B.11 (1.16 New Regulations) Alternate Procedures for removal of debris:

All doors, windows, floor drains, vents and other openings to the outside of the building and to areas within the building that do not contain asbestos materials shall be sealed off with 6-mil polyethylene sheeting and waterproof tape.

Negative pressure ventilation units with HEPA filtration shall be operated continuously from the time of barrier construction through the time acceptable final clearance air monitoring results are obtained. These units shall exhaust filtered air to the outside of the building. Filtered air shall not be exhausted to uncontaminated interior spaces.

Once the space is under negative pressure ventilation with all critical barriers installed, debris on floor within the crawlspace must be removed as asbestos containing material (ACM).

B.8.7 (1.14.7 New Regulations) - Glovebag Procedures:

After debris has been removed from the space the contractor shall install floor and wall sheeting.

Floors shall consist of at least one (1) layer of 6-mil polyethylene sheeting.

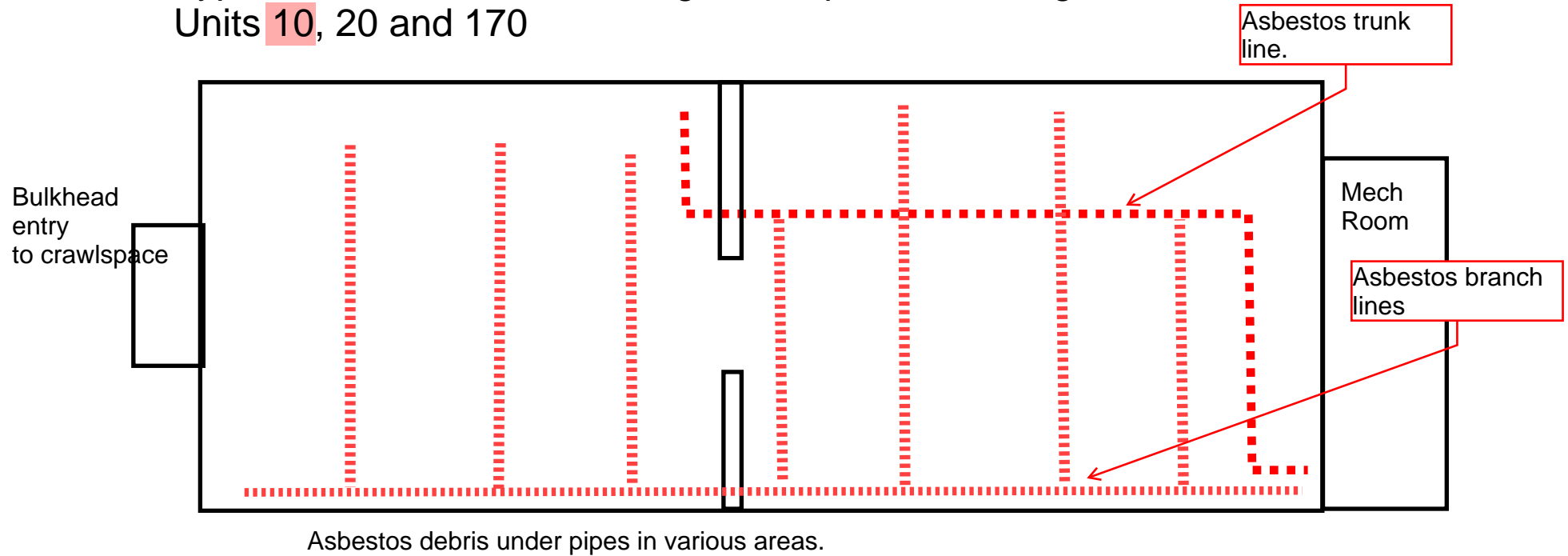
Wall sheeting shall consist of at least one (1) layer of 4-mil polyethylene sheeting.

Pipe insulation will be abated utilizing B.8.7 work procedures.

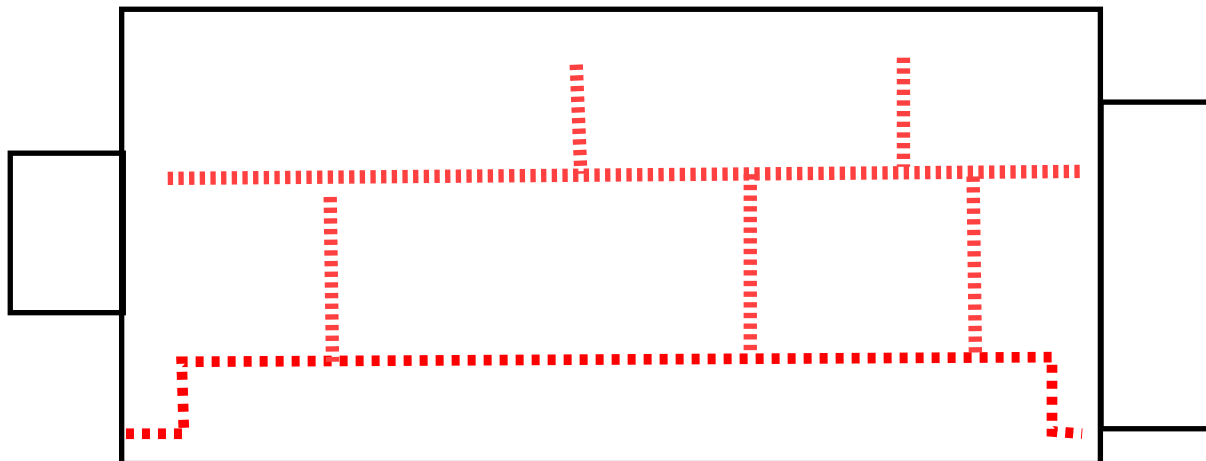
Manufacturer's instructions concerning preparation, sealing, utilization and removal of glovebags must be followed unless the abatement plan and/or these regulations specify more restrictive requirements.

A three chamber worker decontamination enclosure system, in accordance with 29 CFR 1926.58(j), must be available immediately adjacent to the abatement area.

Typical Wood Framed Building Crawlspace - 6 Living Units Units 10, 20 and 170



Typical Wood Framed Building Crawlspace - 3 Living Units (180 and 230)



Asbestos Abatement Plan

Pawtucket Housing Authority Galego Court Building 20 - Crawlspace

Prepared for:

**ESM
1005 Main Street
Pawtucket, RI 02860**

Prepared by:



June 2022

RHODE ISLAND DEPARTMENT OF HEALTH

NOTARIZED CERTIFICATION OF ASBESTOS AMENDED ABATEMENT PLAN

Facility: **Galego Court – Building 20**

Address: **483 Weeden Street**

City/Town: **Pawtucket**

Zip: **02860**

Amendment Phase No:

Abatement Plan Written By: **Joseph M. Lepore**

Certification No: **APD00661**

Summary of specific waivers/variances being requested: **Pre-abatement air samples**

Type of Asbestos Abatement ☒ Removal ☐ Enclosure ☐ Encapsulation
☐ Demolition ☒ Glovebag ☐ Asphalt Roofing
☐ Other (specify) _____

Is this plan being submitted in response to a Notice of Violation and/or a Notice of Requirement to Submit an Asbestos Abatement Plan? ☐ Yes ☒ No

If yes, Indicate Notice/Building Evaluation No(s):

Contractor: **To be determined**

License No:

Estimated Starting Date: **07/20/2022**

Pre-Abatement Sampling Information

Bulk Samples Collected By: **Joseph M. Lepore**

Certification No: **AI00661**

Bulk Samples Analyzed By: **San Air Labs.**

Certification No: **PLM00126**

Air Samples Analyzed By: **NA**

Certification No: **NA**

Clearance Air Sampling Information


Air Samples to be Collected By: **ECM Inc. Personal**

Air Samples to be Analyzed By: **ECM Inc.**

Certification No: **PCM00131**

CERTIFICATION

I certify that: this asbestos abatement plan is prepared and submitted under the provisions of Section 23-24.5-6 of the RI Asbestos Control Act and Parts A and C of the RI Rules and Regulations for Asbestos Control; all abatement/management activities performed in conjunction with this plan must be in compliance with the specifications prescribed in this plan (when approved) and the most current revision of all applicable federal and state regulations; and the asbestos abatement/management activities described in this plan must be performed by a RI licensed asbestos abatement contractor.

Certified by: 
(Signature of Building Owner or Agent)

Title: Executive Director

JESSICA A LIRIANO

Date: 7/13/22

(Type Name of Notary Public)

Subscribed and sworn to before me this 13 day of July, 20 22

My Commission Expires: 2/19/2024

(Notary Public)

AFFIX NOTARY SEAL HERE

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
Department of Health
Office of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

1. Building Owner's Name:

Pawtucket Housing Authority

2. Application Prepared By:

Joseph M. Lepore

RI certification No: **AAC-0661**

Telephone No: **401-304-6614**

3. Building Owner's Mailing Address and Telephone Number:

Street: **214 Roosevelt Ave**

City/Town: **Pawtucket**

Zip: **02860**

Telephone No.: **401-721-6000**

(Area Code, No., Ext.)

4. Person to be contacted regarding this application:

Name: **Nicholas Toth**

Telephone No: **401-721-6044**

(Area Code, No., Ext.)

5. Location where abatement work will be performed:

Name (if applicable): **Building 20 Crawlspace**

Street: **483 Weeden Street**

City/Town: **Pawtucket**

Zip: **02860**

6. Is this application being submitted in response to a "Notice of Requirement to Submit an Asbestos Abatement plan"? () Yes (X) No

If Yes, what is the due date for submittal of Abatement plan? _____
(Mo.) (Day) (Yr.)

Evaluation Number on the Notice: _____

7. Contractor who will be performing abatement work (if selected):

Name: **To be determined**

R.I. License No.:

8. Estimated Starting Date of Abatement Work

07
(Month)

20
(Day)

2022
(Year)

9. Estimated Completion Date of Abatement Work:

12
(Month)

31
(Day)

2022
(Year)

10. Type of Asbestos Abatement:

(Check all that apply)

☒ Removal

☐ Enclosure

☐ Encapsulation

☐ Demolition

☐ Operations and Maintenance Only

☐ Asphalt Roofing

11. Type of Building:

☐ School

☐ Privately Owned Building

☒ Publicly Owned Building

☐ Residence

☐ Other (Specify) _____

12. Building Access:

☐ Public Access (\geq 25% of Building Area)

☒ Limited Public Access ($<$ 25% of Building Area)

☐ No Public Access

13. Bulk Sample Collection and Analysis:

A. Person collecting bulk samples:

Name: **Joseph M. Lepore**

RI Certification No.: **AI00661**

B. Sampling Methodology:

☐ EPA AHERA Sampling requirements [40 CFR 763.86].

☒ EPA's Asbestos Containing Material in School Buildings: A Guidance Document (EPA-405/2-78-014) or Guidance for Controlling Asbestos Containing Materials – 1985 Edition (EPA-560-5-85-024)

☐ Other (Specify) _____

C. Laboratory performing the analysis of the bulk samples

Name: **San Air Labs**

RI Certification No.: **PLM00126**

D. Analytical Methodology:

☒ EPA Interim Method for the Determination of Asbestos in Bulk Insulation Samples [PLM method only].

☐ Other (Specify) _____

14. Pre-Abatement Air Sample Collection and Analysis:

A. Person collecting pre-abatement air samples:

Name: **NA**

Affiliation: **NA**

B. Laboratory performing analysis of pre-abatement air samples.

Name: **NA**

RI Certification No.: **NA**

C. Methodology used in the collection and analysis of pre-abatement samples:

☒ NIOSH Method 7400 [Most Current Revision]

☐ OSHA 29 CFR 1926.1101 – Appendix A & B

☐ Other (Specify)

15. A. Indicate how the regulated asbestos containing material (RACM) will be removed from the abatement site. If a hauler or broker will be used to transport the RACM to a disposal site, they must also be identified.

To be determined _____

- B. Provide the name and location of the authorized asbestos waste facility to which the removed material will be transferred for disposal (if known).

To be determined _____

16. Person designated as compliance monitor for abatement work. **[NOT REQUIRED]**

Name: **ECM Inc. Personnel**

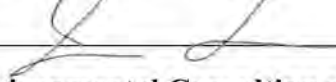
Affiliation: **Environmental Consulting and Management Inc. (ECM Inc.)**

1. In-Process & Clearance Air Sampling: **See Attachment #1**
 - A. Describe on an attachment the type, number and location of air samples that will be collected outside the work area during the abatement project.
 - B. Describe on an attachment the plan of action to be followed if the Indoor Non-Occupational Air Exposure Standard for Asbestos (0.01 fibers per cubic centimeter) is exceeded outside the work area during the abatement project.
 - C. Describe on an attachment the type, number and location of air samples that will be collected as part of the final clearance testing.
 - D. Describe on an attachment the plan of action to be followed if the Indoor Non-Occupational Air Exposure Standard for Asbestos (0.01 fiber per cubic centimeter) is exceed during final clearance testing.
-

2. A separate and fully completed Form ASB-16A must be submitted for each area to be abated. List below the entry in Item 1 from each attached ASB-16A.

Area 1 –Crawlspace

3. I certify that this plan was prepared by me and I am responsible for its content.

Signature:  Date 06 16 2022
(Month) (Day) (Year)
Affiliation: **Environmental Consulting and Management, Inc**

4. ASBESTOS ABATEMENT PLAN APPLICATION FEE:

- | | |
|--|--------|
| () Operation & Maintenance Only | \$ 75 |
| () Up to One (1) NESHAP Unit | \$ 75 |
| () Between One (1) & Ten (10) NESHAP Units | \$ 300 |
| () Between Ten (10) & Fifty (50) NESHAP Units | \$ 600 |
| () Over Fifty (50) NESHAP Units | \$ 900 |
| (X) RI State Agency Waived Application Fee | |

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Health

Office of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

SUPPLEMENTAL INFORMATION: AREA DESCRIPTION AND PROPOSED REMEDY

BUILDING LOCATION: 483 Weeden Street, Pawtucket, RI – Building 20

INSTRUCTIONS: All items on this form must be addressed. All references to attachments must be clearly identified. All attachments must be marked with the specific item numbers on this form to which they pertain.

1. Area Location/Identification (Room Name/No., Evaluation Number, etc.):

Area 1 – Crawlspace

2. Attach a description of each type (e.g. pipe, ceiling, etc.) of regulated asbestos containing material (RACM) in this area, including condition, location, quantity and asbestos content. Attach a copy of the laboratory report(s) for all samples. (NOTE: All laboratory reports must include the name of the building(s) and the location(s) of the sample(s).

Refer to Attachment #2

3. Attach a current scale drawing of this area, showing direction of North and East, which has been clearly annotated to show the type, location and quantity of all RACM in this area. This drawing must include a legend which acts as a guide to the scale, symbols and nomenclature used in the drawing. If a master plan or multiple drawings are provided, indicate the specific location(s) and drawing number(s) which depict this area. The location of the decontamination chamber must also be so indicated on the appropriate drawing(s).

Refer to Attached Building Drawing

4. PROPOSED REMEDIES:

- A. Attach a description of the interim Operations and Maintenance Plan that will be implemented in accordance with C.1.2 (b).

Refer to Attachment #3

(4) PROPOSED REMEDIES (cont.):

B. Will any portion of this area be abated by use of B.8 work procedures?

☒ Yes ☐ No

If Yes, indicate below which RACM in this area will be abated by use of the following B.8 work procedures:

B.8.2 & B.8.3 [REMOVAL]

B.8.2 & B.8.4 [ENCAPSULATION]

B.8.2 & B.8.5 [ENCLOSURE]

B.8.6 [DEMOLITION]

B.8.7 [GLOVEBAG] **Pipe insulation**

B.8.8 [ASP. ROOFING]

C. Are you requesting any waivers to the above selected B.8 procedure for any of the abatement activities in this area?

☒ Yes ☐ No **Pre-abatement air sampling**

If yes, attach a detailed description of the waivers requested you are proposing to utilize.

All items must be keyed to the specific section(s) of the regulations for which waivers are requested.

D. Are you proposing alternative procedures under B.11 for any of the abatement activities in this area?

☒ Yes ☐ No **See Attachment 4**

If yes, attach a detailed description of the alternate procedures requested you are proposing to utilize. Alternate procedures must include a justification for not following specific

section(s) of the regulations and be as protective of public health.

E. Will any RACM remain in this area after abatement?

☐ Yes ☐ No ☒ Beyond scope of inspection

If Yes, attach a description of the RACM that will remain and the details of the on-going Operations and Maintenance Plan that will be implemented in accordance with C.1.2(b).

AGENCY USE ONLY

ATTACHMENT #1

In Process and Clearance Air Sampling

- A. If requested by the building owner, ECM will be on site for part time monitoring and will collect one compliance air sample outside the containment area daily for the duration of asbestos removal operations inside this building. The sample will be collected outside the decontamination unit.
- B. Any deviation in proper procedures on the part of the contractor shall be reported to the building owner. This includes inadequate paperwork on site, disagreement and/or any deviation from previously outlined work procedures, or if compliance samples in the work area vicinity exceed 0.01 f/cc. The contractor's work shall then be stopped, without repercussion to the building owner or the project-monitoring firm until any conflicts and/or problems have been resolved.

- C. After the interior areas have passed the consultant's visual inspection, he or his authorized representative will collect the following air samples and the corresponding required blanks:

Area 1 – A minimum of 4 PCM clearance air samples will be collected from the crawlspace.

- D. If clearance monitoring after clean-up results in fiber concentrations in excess of the RI rules and regulation clearance air requirements, the project area shall be wet-cleaned, misted with water, and encapsulated with a liquid encapsulant. A period of no less than 24 hours shall elapse before the next set of clearance air samples can be collected. The sampling process shall be repeated until a satisfactory clearance air level is attained.

The asbestos contractor is held responsible for any costs associated with the re-cleaning and re-sampling of an area should clearance air samples exceed 0.01 f/cc.

ATTACHMENT #2

ASB-16A-2

POSITIVE ASBESTOS CONTAINING MATERIALS:

There is approximately 400lf of asbestos containing pipe insulation located within the crawlspace of building 20.

Visible pipe insulation debris was observed on the dirt floor within the crawlspace.

It is the contractor's responsibility to verify all quantities.

ATTACHMENT #2

(Continued)

1. Bulk Sample Results



Analysis Report
prepared for
Environmental Consulting & Management Inc

Report Date: 4/11/2022

Project Name: Galego Court - Crawlspace

Project #: 220155

SanAir ID#: 22016284



NVLAP LAB CODE 200870-0

10501 Trade Court | North Chesterfield, Virginia 23236
888.895.1177 | 804.897.1177 | fax: 804.897.0070 | IAQ@SanAir.com | SanAir.com



SanAir ID Number

22016284

FINAL REPORT

4/11/2022 10:17:12 AM

Name: Environmental Consulting & Management Inc
Address: 50 Kickemuit Ave
Bristol, RI 02809
Phone: 401-438-1360

Project Number: 220155

P.O. Number:

Project Name: Galego Court - Crawlspace

Collected Date: 4/1/2022

Received Date: 4/4/2022 10:15:00 AM

Dear Joseph M. Lepore,

We at SanAir would like to thank you for the work you recently submitted. The 17 sample(s) were received on Monday, April 04, 2022 via UPS. The final report(s) is enclosed for the following sample(s): 1A, 2A, 3A, 3B, 4A, 4B, 5A, 6A, 7A, 8A, 8B, 9A, 9B, 9C, 10A, 10B, 11A.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

A handwritten signature in black ink that reads "Sandra Sobrino". The signature is fluid and cursive, with the first name "Sandra" and last name "Sobrino" clearly distinguishable.

Sandra Sobrino
Asbestos & Materials Laboratory Manager
SanAir Technologies Laboratory

Final Report Includes:

- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

Sample conditions:

- 17 samples in Good condition.



SanAir ID Number
22016284
FINAL REPORT
4/11/2022 10:17:12 AM

Name: Environmental Consulting & Management Inc
Address: 50 Kickemuit Ave
Bristol, RI 02809
Phone: 401-438-1360

Project Number: 220155
P.O. Number:
Project Name: Galego Court - Crawlspace
Collected Date: 4/1/2022
Received Date: 4/4/2022 10:15:00 AM

Analyst: Moore, Brandi

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
1A / 22016284-001 Insulation Bldg 10 Crawlspace	White Non-Fibrous Homogeneous		80% Other	15% Chrysotile 5% Amosite
2A / 22016284-002 Insulation Debris Bld 10 Crawlspace	White Non-Fibrous Homogeneous	10% Cellulose	70% Other	15% Chrysotile 5% Amosite
3A / 22016284-003 Insulation On Steam Line Bldg 20	White Non-Fibrous Heterogeneous	5% Cellulose	82% Other	10% Amosite 3% Chrysotile
3B / 22016284-004 Insulation On Steam Line Bldg 20	White Non-Fibrous Heterogeneous	5% Cellulose	80% Other	10% Amosite 5% Chrysotile
4A / 22016284-005 Insulation On Steam Line Bldg 40	White Non-Fibrous Heterogeneous		85% Other	10% Amosite 5% Chrysotile
4B / 22016284-006 Insulation On Steam Line Bldg 40	White Non-Fibrous Homogeneous		84% Other	8% Amosite 8% Chrysotile
5A / 22016284-007 Insulation Debris Bldg 50	Grey Fibrous Homogeneous	15% Cellulose	63% Other	15% Amosite 7% Chrysotile
6A / 22016284-008 Insulation Debris Bldg 30	Grey Fibrous Homogeneous		40% Other	60% Chrysotile
7A / 22016284-009 Steam Line Bldg 50	White Non-Fibrous Homogeneous		70% Other	20% Chrysotile 10% Amosite
8A / 22016284-010 Debris - Bldg 100 Crawlspace	Grey Fibrous Homogeneous		40% Other	60% Chrysotile

Analyst: *Brandi Moore*

Approved Signatory: *Jonathan Wilson*

Analysis Date: 4/11/2022

Date: 4/11/2022



SanAir ID Number
22016284
FINAL REPORT
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Project Number: 220155
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Received Date: 4/4/2022 10:15:00 AM

Analyst: Moore, Brandi

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
8B / 22016284-011 Debris - Bldg 100 Crawlspace	White Non-Fibrous Heterogeneous		80% Other	10% Chrysotile 10% Amosite
9A / 22016284-012 Insulation In Above Ground Boiler Rooms Wood Bldgs, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
9A / 22016284-012 Insulation In Above Ground Boiler Rooms Wood Bldgs, Wrap	White Non-Fibrous Heterogeneous	30% Cellulose 15% Glass	55% Other	None Detected
9B / 22016284-013 Insulation Wood Bldg Boiler Rooms, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
9B / 22016284-013 Insulation Wood Bldg Boiler Rooms, Wrap	White Non-Fibrous Heterogeneous	30% Cellulose	70% Other	None Detected
9C / 22016284-014 Insulation Wood Bldg Boiler Rooms, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
9C / 22016284-014 Insulation Wood Bldg Boiler Rooms, Wrap	White Non-Fibrous Heterogeneous	30% Cellulose 15% Glass	55% Other	None Detected
10A / 22016284-015 Breaching On New Furnaces - Bldg 30, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
10A / 22016284-015 Breaching On New Furnaces - Bldg 30, Wrap	White Fibrous Heterogeneous	85% Glass	15% Other	None Detected
10B / 22016284-016 Breaching On New Furnaces - Bldg 30, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected

Analyst: *Brandi Moore*

Approved Signatory: *Jonathan Wilson*

Analysis Date: 4/11/2022

Date: 4/11/2022



SanAir ID Number

22016284

FINAL REPORT

4/11/2022 10:17:12 AM

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Address: 50 Kickemuit Ave
Bristol, RI 02809
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Project Number: 220155
P.O. Number:
Project Name: Galego Court - Crawlspace
Collected Date: 4/1/2022
Received Date: 4/4/2022 10:15:00 AM

Analyst: Moore, Brandi

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
10B / 22016284-016 Breaching On New Furnaces - Bldg 30, Wrap	White Fibrous Heterogeneous	85% Glass	15% Other	None Detected
11A / 22016284-017 Wallboard Bldg 20 Boiler Room, Wallboard	Grey Non-Fibrous Homogeneous	5% Cellulose	95% Other	None Detected
11A / 22016284-017 Wallboard Bldg 20 Boiler Room, Joint Compound	White Non-Fibrous Homogeneous		100% Other	None Detected

Analyst:

Brandi Moore

Approved Signatory:

Johnathan Wilson

Analysis Date: 4/11/2022

Date: 4/11/2022

Disclaimer

This report is the sole property of the client named on the SanAir Technologies Laboratory chain-of-custody (COC). Results in the report are confidential information intended only for the use by the customer listed on the COC. Neither results nor reports will be discussed with or released to any third party without our client's written permission. The final report shall not be reproduced except in full without written approval of the laboratory to assure that parts of the report are not taken out of context. The information provided in this report applies only to the samples submitted and is relevant only for the date, time, and location of sampling. The accuracy of the results is dependent upon the client's sampling procedure and information provided to the laboratory by the client. SanAir assumes no responsibility for the sampling procedure and will provide evaluation reports based solely on the sample(s) in the condition in which they arrived at the laboratory and information provided by the client on the COC, such as: project number, project name, collection dates, po number, special instructions, samples collected by, sample numbers, sample identifications, sample type, selected analysis type, flow rate, total volume or area, and start stop times that may affect the validity of the results in this report. Samples were received in good condition unless otherwise noted on the report. SanAir assumes no responsibility or liability for the manner in which the results are used or interpreted. This report does not constitute and shall not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any other U.S. governmental agencies and may not be certified by every local, state, and federal regulatory agencies.

Samples are held for a period of 60 days. Fibers smaller than 5 microns cannot be seen with this method due to scope limitations.

For NY state samples, method EPA 600/M4-82-020 is performed.

NYELAP Disclaimer:

Polarized- light microscopy is not consistently reliable in detecting asbestos in floor covering and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

Asbestos Certifications

NVLAP lab code 200870-0

City of Philadelphia: ALL-460

PA Department of Environmental Protection Number: 68-05397

California License Number: 2915

Colorado License Number: AL-23143

Connecticut License Number: PH-0105

Massachusetts License Number: AA000222

Maine License Number: LB-0075, LA-0084

New York ELAP lab ID: 11983

Rhode Island License Number: PCM00126, PLM00126, TEM00126

Texas Department of State Health Services License Number: 300440

Commonwealth of Virginia 3333000323

Washington State License Number: C989

West Virginia License Number: LT000616

Vermont License: AL166318

Louisiana Department of Environmental Quality: 212253, Cert 05088

Revision Date: 8/14/2020



10501 Trade Ct., Suite 100
N. Chesterfield, VA 23236
804.897.1177 / 888.895.1177
Fax 804.897.0070
sanair.com

Asbestos
Chain of Custody
Form 140, Rev 6, 1/26/2022

SanAir ID Number

22016284

Company: Environmental Consulting & Management Inc	Project #: 220155	Collected by: Joe Lepore
Address: 50 Kickemuit Ave	Project Name: Galego Court - Crawlspace	Phone #: 401-438-1380
City, St., Zip: Bristol, RI 02809	Date Collected: 4/1/2022	Fax #: 401-438-1316
State of Collection: RI Account#: 2667	P.O. Number:	Email: JLepore@ECMNE.com

Bulk			Air			Soil		
ABB	PLM EPA 600/R-93/116	<input checked="" type="checkbox"/>	ABA	PCM NIOSH 7400	<input type="checkbox"/>	ABSE	PLM EPA 600/R-93/116 (Qual.)	<input type="checkbox"/>
	Positive Stop	<input type="checkbox"/>	ABA-2	OSHA w/ TWA*	<input type="checkbox"/>	Soil		
ABEPA	PLM EPA 400 Point Count	<input type="checkbox"/>	ABTEM	TEM AHERA	<input type="checkbox"/>	ABSP	PLM CARB 435 (LOD <1%)	<input type="checkbox"/>
ABB1K	PLM EPA 1000 Point Count	<input type="checkbox"/>	ABATN	TEM NIOSH 7402	<input type="checkbox"/>	ABSP1	PLM CARB 435 (LOD 0.25%)	<input type="checkbox"/>
ABBen	PLM EPA NOB**	<input type="checkbox"/>	ABT2	TEM Level II	<input type="checkbox"/>	ABSP2	PLM CARB 435 (LOD 0.1%)	<input type="checkbox"/>
ABBCH	TEM Chatfield**	<input type="checkbox"/>	Other:		<input type="checkbox"/>	Dust		
ABBTM	TEM EPA NOB**	<input type="checkbox"/>	New York ELAP			ABWA	TEM Wipe ASTM D-6480	<input type="checkbox"/>
ABQ	PLM Qualitative	<input type="checkbox"/>	ABEPA2	NY ELAP 198.1	<input type="checkbox"/>	ABDMV	TEM Microvac ASTM D-5755	<input type="checkbox"/>
			ABENY	NY ELAP 198.6 PLM NOB	<input type="checkbox"/>			
			ABBNY	NY ELAP 198.4 TEM NOB	<input type="checkbox"/>			
Water						Matrix Other		
ABHE	EPA 100.2	<input type="checkbox"/>				<input type="checkbox"/>		

** Available on 24-hr. to 5-day TAT

Turn Around Times	3 HR (4 HR TEM) <input type="checkbox"/>	6 HR (8HR TEM) <input type="checkbox"/>	12 HR <input type="checkbox"/>	1 Day <input type="checkbox"/>
	<input type="checkbox"/> 2 Days	<input type="checkbox"/> 3 Days	<input checked="" type="checkbox"/> 4 Days	<input type="checkbox"/> 5 Days

Special Instructions

Sample #	Sample Identification/Location	Volume or Area	Sample Date	Flow Rate*	Start - Stop Time*
1A	Insulation Bldg 10 Crawlspace				
2A	Insulation Debris Bldg 10 Crawlspace				
3A	Insulation on Steam line Bldg 20				
3B	" "				
4A	Insulation on Steam line Bldg 40				
4B	" "				
5A	Insulation Debris Bldg 50				
6A	Insulation Debris Bldg 30				
7A	Steam Line Bldg 50				
8A	Debris - Bldg 100 Crawlspace				
8B	" "				
9A	Insulation in above Ground Boiler Rooms Wood Bldgs				

Relinquished by	Date	Time	Received by	Date	Time
	4/1/2022		ZAO	4/4/22	10:52

If no technician is provided, then the primary contact for your account will be selected. Unless scheduled, the turnaround time for all samples received after 3 pm EST will be logged in the next business day. Weekend or holiday work must be scheduled ahead of time and is charged at 150% of the 3hr TAT or a minimum charge of \$150. A courier charge will be applied for same day and one-day turnaround times for offsite work. SanAir covers Ground and Next Day Air shipping. Shipments billed to SanAir with a faster shipping rate will result in additional charges.

[illegible]

Special Instructions	
-----------------------------	--

Relinquished by	Date	Time	Received by	Date	Time
<i>[Signature]</i>	4/1/2022		<i>[Signature]</i>	4/1/22	10:15

ATTACHMENT #3

Interim Operations & Maintenance Plan

The contractors associated with Galego Court are aware of the presence and location of ACM within the above stated areas. They have been instructed not to disturb the material due to the potential health hazards if fibers become airborne.

1. Notification

All building occupants, also any contractors entering the building and/or premises to perform work, shall be notified of the presence and location of asbestos-containing material(s) and cautioned regarding disturbance of the material(s). Also, the building occupants must be notified regarding the occurrence of asbestos abatement activities. If an emergency fiber release occurs, the following procedures shall be initiated.

2. Fiber Release Episodes

A. Minor Release Episode

If a minor fiber release episode occurs (release of less than 10 linear feet or 25 square feet of material), trained maintenance staff may perform the cleaning. Access to the area shall be restricted during clean-up. All debris shall be thoroughly wetted using amended water and placed in labeled, double six-mil polyethylene bags. The area shall then be cleaned using HEPA filtered vacuums and/or wet cleaning methods. Damaged material must be cleaned and repaired with non-asbestos-containing material. The area shall then be evaluated to decide if further action is necessary.

B. Major Release Episode

If a major fiber release episode occurs (falling or dislodging of more than 10 linear feet or 25 square feet of ACM), the cleaning must be carried out and directed by persons accredited to conduct and design response actions. After such an episode, the area shall be immediately restricted and entry to the area prevented. Warning signs shall be posted to caution people other than those qualified to deal with the problem. Air handling units in the area shall be shut down to prevent the spread of fibers beyond the problem area. A response action shall be designed and carried out by qualified personnel.

3. Training

Any employee who, because of their work, may disturb asbestos-containing material shall be trained and certified as a Competent Person as described by the RI Rules and Regulations for Asbestos Control. The program coordinator shall ensure that the procedures described above to protect the building occupants shall be followed for any operations and maintenance activities disturbing or involving ACM.

ATTACHMENT #4

Scope of Work / Description of Waivers

All proper OSHA, federal, state, and local safety regulations shall be followed.

Request of Waivers:

PHA and ECM are requesting a waiver of pre-abatement air samples for the crawlspace. The area is not meant for long term human occupancy. Due to dirt floor and miscellaneous debris within the space obtaining readable samples is not possible. All individuals entering the crawlspace prior to abatement must wear at a minimum half face respirator with HEPA filters and disposable coveralls.

B.11 (1.16 New Regulations) Alternate Procedures for removal of debris:

All doors, windows, floor drains, vents and other openings to the outside of the building and to areas within the building that do not contain asbestos materials shall be sealed off with 6-mil polyethylene sheeting and waterproof tape.

Negative pressure ventilation units with HEPA filtration shall be operated continuously from the time of barrier construction through the time acceptable final clearance air monitoring results are obtained. These units shall exhaust filtered air to the outside of the building. Filtered air shall not be exhausted to uncontaminated interior spaces.

Once the space is under negative pressure ventilation with all critical barriers installed, debris on floor within the crawlspace must be removed as asbestos containing material (ACM).

B.8.7 (1.14.7 New Regulations) - Glovebag Procedures:

After debris has been removed from the space the contractor shall install floor and wall sheeting.

Floors shall consist of at least one (1) layer of 6-mil polyethylene sheeting.

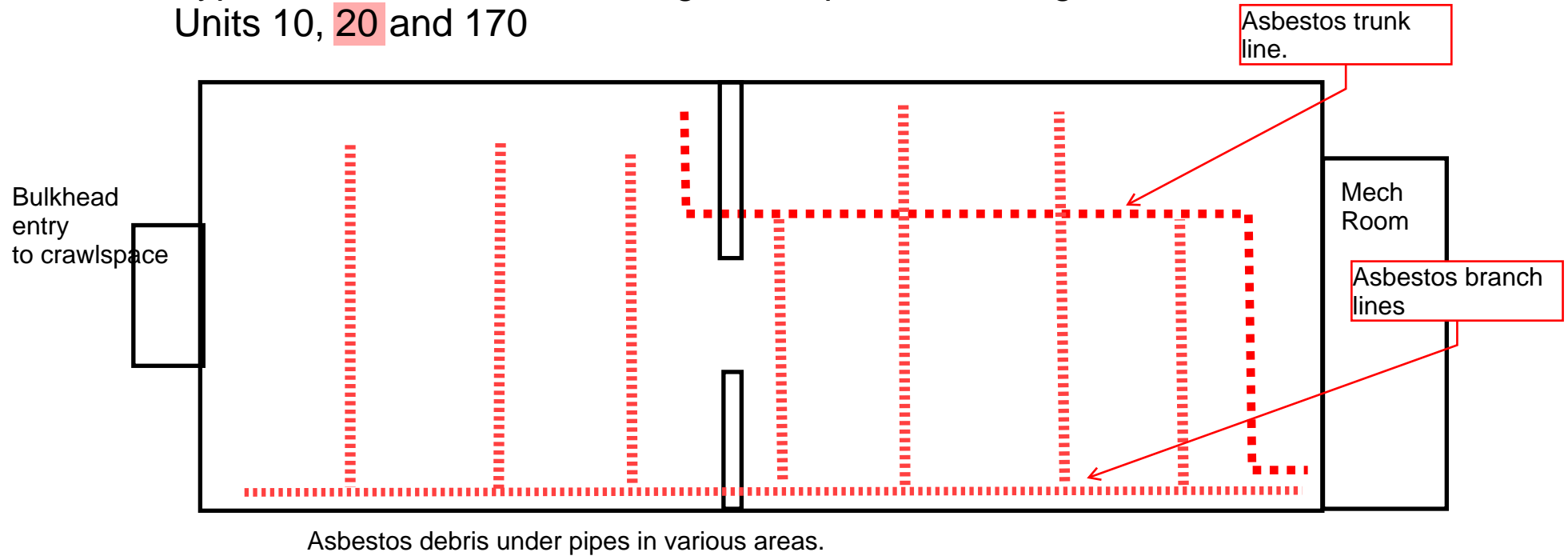
Wall sheeting shall consist of at least one (1) layer of 4-mil polyethylene sheeting.

Pipe insulation will be abated utilizing B.8.7 work procedures.

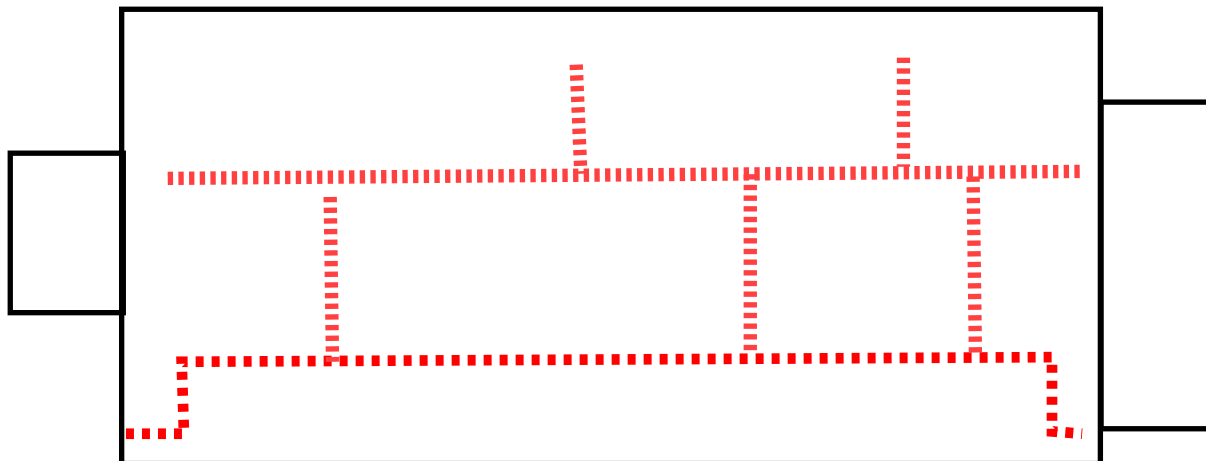
Manufacturer's instructions concerning preparation, sealing, utilization and removal of glovebags must be followed unless the abatement plan and/or these regulations specify more restrictive requirements.

A three chamber worker decontamination enclosure system, in accordance with 29 CFR 1926.58(j), must be available immediately adjacent to the abatement area.

Typical Wood Framed Building Crawlspace - 6 Living Units Units 10, 20 and 170



Typical Wood Framed Building Crawlspace - 3 Living Units (180 and 230)



Asbestos Abatement Plan

Pawtucket Housing Authority Galego Court Building 30-40

Prepared for:

**ESM
1005 Main Street
Pawtucket, RI 02860**

Prepared by:



June 2022

RHODE ISLAND DEPARTMENT OF HEALTH

NOTARIZED CERTIFICATION OF ASBESTOS AMENDED ABATEMENT PLAN

Facility: **Galego Court – Building 30-40**

Address: **483 Weeden Street**

City/Town: **Pawtucket**

Zip: **02860**

Amendment Phase No:

Abatement Plan Written By: **Joseph M. Lepore**

Certification No: **APD00661**

Summary of specific waivers/variances being requested: **Pre-abatement air samples**

Type of Asbestos Abatement ☒ Removal ☐ Enclosure ☐ Encapsulation
☐ Demolition ☒ Glovebag ☐ Asphalt Roofing
☐ Other (specify) _____

Is this plan being submitted in response to a Notice of Violation and/or a Notice of Requirement to Submit an Asbestos Abatement Plan? ☐ Yes ☒ No

If yes, Indicate Notice/Building Evaluation No(s):

Contractor: **To be determined**

License No:

Estimated Starting Date: **07/20/2022**

Pre-Abatement Sampling Information

Bulk Samples Collected By: **Joseph M. Lepore**

Certification No: **AI00661**

Bulk Samples Analyzed By: **San Air Labs.**

Certification No: **PLM00126**

Air Samples Analyzed By: **NA**

Certification No: **NA**

Clearance Air Sampling Information

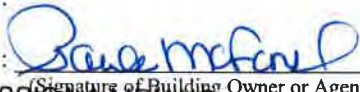
Air Samples to be Collected By: **ECM Inc. Personal**

Air Samples to be Analyzed By: **ECM Inc.**

Certification No: **PCM00131**

CERTIFICATION

I certify that: this asbestos abatement plan is prepared and submitted under the provisions of Section 23-24.5-6 of the RI Asbestos Control Act and Parts A and C of the RI Rules and Regulations for Asbestos Control; all abatement/management activities performed in conjunction with this plan must be in compliance with the specifications prescribed in this plan (when approved) and the most current revision of all applicable federal and state regulations; and the asbestos abatement/management activities described in this plan must be performed by a RI licensed asbestos abatement contractor.

Certified by:  Title: Executive Director
(Signature of Building Owner or Agent)
JESSICA A LIRIANO Date: 7/13/22
NOTARY PUBLIC
(Typed/Printed Name of Certifier)
STATE OF RHODE ISLAND
Subscribed and sworn before me this 13 day of July, 20 22
My Commission Expires: 2/19/2024

(Notary Public)

AFFIX NOTARY SEAL HERE

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
Department of Health
Office of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

1. Building Owner's Name:

Pawtucket Housing Authority

2. Application Prepared By:

Joseph M. Lepore

RI certification No: **AAC-0661**

Telephone No: **401-304-6614**

3. Building Owner's Mailing Address and Telephone Number:

Street: **214 Roosevelt Ave**

City/Town: **Pawtucket**

Zip: **02860**

Telephone No.: **401-721-6000**

(Area Code, No., Ext.)

4. Person to be contacted regarding this application:

Name: **Nicholas Toth**

Telephone No: **401-721-6044**

(Area Code, No., Ext.)

5. Location where abatement work will be performed:

Name (if applicable): **Building 30-40 Crawlspace and Mechanical Room**

Street: **483 Weeden Street**

City/Town: **Pawtucket**

Zip: **02860**

6. Is this application being submitted in response to a "Notice of Requirement to Submit an Asbestos Abatement plan"? () Yes (X) No

If Yes, what is the due date for submittal of Abatement plan? _____
(Mo.) (Day) (Yr.)

Evaluation Number on the Notice: _____

7. Contractor who will be performing abatement work (if selected):

Name: **To be determined**

R.I. License No.:

8. Estimated Starting Date of Abatement Work

07
(Month)

20
(Day)

2022
(Year)

9. Estimated Completion Date of Abatement Work:

12
(Month)

31
(Day)

2022
(Year)

10. Type of Asbestos Abatement:

(Check all that apply)

☒ Removal

☐ Enclosure

☐ Encapsulation

☐ Demolition

☐ Operations and Maintenance Only

☐ Asphalt Roofing

11. Type of Building:

☐ School

☐ Privately Owned Building

☒ Publicly Owned Building

☐ Residence

☐ Other (Specify) _____

12. Building Access:

☐ Public Access (\geq 25% of Building Area)

☒ Limited Public Access ($<$ 25% of Building Area)

☐ No Public Access

13. Bulk Sample Collection and Analysis:

A. Person collecting bulk samples:

Name: **Joseph M. Lepore**

RI Certification No.: **AI00661**

B. Sampling Methodology:

☐ EPA AHERA Sampling requirements [40 CFR 763.86].

☒ EPA's Asbestos Containing Material in School Buildings: A Guidance Document (EPA-405/2-78-014) or Guidance for Controlling Asbestos Containing Materials – 1985 Edition (EPA-560-5-85-024)

☐ Other (Specify) _____

C. Laboratory performing the analysis of the bulk samples

Name: **San Air Labs**

RI Certification No.: **PLM00126**

D. Analytical Methodology:

☒ EPA Interim Method for the Determination of Asbestos in Bulk Insulation Samples [PLM method only].

☐ Other (Specify) _____

14. Pre-Abatement Air Sample Collection and Analysis:

A. Person collecting pre-abatement air samples:

Name: **NA**

Affiliation: **NA**

B. Laboratory performing analysis of pre-abatement air samples.

Name: **NA**

RI Certification No.: **NA**

C. Methodology used in the collection and analysis of pre-abatement samples:

☒ NIOSH Method 7400 [Most Current Revision]

☐ OSHA 29 CFR 1926.1101 – Appendix A & B

☐ Other (Specify)

15. A. Indicate how the regulated asbestos containing material (RACM) will be removed from the abatement site. If a hauler or broker will be used to transport the RACM to a disposal site, they must also be identified.

To be determined _____

- B. Provide the name and location of the authorized asbestos waste facility to which the removed material will be transferred for disposal (if known).

To be determined _____

16. Person designated as compliance monitor for abatement work. **[NOT REQUIRED]**

Name: **ECM Inc. Personnel**

Affiliation: **Environmental Consulting and Management Inc. (ECM Inc.)**

1. In-Process & Clearance Air Sampling: **See Attachment #1**
 - A. Describe on an attachment the type, number and location of air samples that will be collected outside the work area during the abatement project.
 - B. Describe on an attachment the plan of action to be followed if the Indoor Non-Occupational Air Exposure Standard for Asbestos (0.01 fibers per cubic centimeter) is exceeded outside the work area during the abatement project.
 - C. Describe on an attachment the type, number and location of air samples that will be collected as part of the final clearance testing.
 - D. Describe on an attachment the plan of action to be followed if the Indoor Non-Occupational Air Exposure Standard for Asbestos (0.01 fiber per cubic centimeter) is exceed during final clearance testing.
-

2. A separate and fully completed Form ASB-16A must be submitted for each area to be abated. List below the entry in Item 1 from each attached ASB-16A.

Area 1 –Crawlspace

Area 2- Mechanical Room/Boiler Room

3. I certify that this plan was prepared by me and I am responsible for its content.

Signature:  Date 06 16 2022
(Month) (Day) (Year)
Affiliation: **Environmental Consulting and Management, Inc**

4. ASBESTOS ABATEMENT PLAN APPLICATION FEE:

- | | |
|--|--------|
| <input type="checkbox"/> Operation & Maintenance Only | \$ 75 |
| <input type="checkbox"/> Up to One (1) NESHAP Unit | \$ 75 |
| <input type="checkbox"/> Between One (1) & Ten (10) NESHAP Units | \$ 300 |
| <input type="checkbox"/> Between Ten (10) & Fifty (50) NESHAP Units | \$ 600 |
| <input type="checkbox"/> Over Fifty (50) NESHAP Units | \$ 900 |
| <input checked="" type="checkbox"/> RI State Agency Waived Application Fee | |

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Health

Office of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

SUPPLEMENTAL INFORMATION: AREA DESCRIPTION AND PROPOSED REMEDY

BUILDING LOCATION: **483 Weeden Street, Pawtucket, RI – Building 30-40**

INSTRUCTIONS: All items on this form must be addressed. All references to attachments must be clearly identified. All attachments must be marked with the specific item numbers on this form to which they pertain.

1. Area Location/Identification (Room Name/No., Evaluation Number, etc.):

Area 1 – Crawlspace

2. Attach a description of each type (e.g. pipe, ceiling, etc.) of regulated asbestos containing material (RACM) in this area, including condition, location, quantity and asbestos content. Attach a copy of the laboratory report(s) for all samples. (NOTE: All laboratory reports must include the name of the building(s) and the location(s) of the sample(s).

Refer to Attachment #2

3. Attach a current scale drawing of this area, showing direction of North and East, which has been clearly annotated to show the type, location and quantity of all RACM in this area. This drawing must include a legend which acts as a guide to the scale, symbols and nomenclature used in the drawing. If a master plan or multiple drawings are provided, indicate the specific location(s) and drawing number(s) which depict this area. The location of the decontamination chamber must also be so indicated on the appropriate drawing(s).

Refer to Attached Building Drawing

4. PROPOSED REMEDIES:

- A. Attach a description of the interim Operations and Maintenance Plan that will be implemented in accordance with C.1.2 (b).

Refer to Attachment #3

(4) PROPOSED REMEDIES (cont.):

B. Will any portion of this area be abated by use of B.8 work procedures?

☒ Yes ☐ No

If Yes, indicate below which RACM in this area will be abated by use of the following B.8 work procedures:

B.8.2 & B.8.3 [REMOVAL]

B.8.2 & B.8.4 [ENCAPSULATION]

B.8.2 & B.8.5 [ENCLOSURE]

B.8.6 [DEMOLITION]

B.8.7 [GLOVEBAG] **Pipe insulation**

B.8.8 [ASP. ROOFING]

C. Are you requesting any waivers to the above selected B.8 procedure for any of the abatement activities in this area?

☒ Yes ☐ No **Pre-abatement air sampling**

If yes, attach a detailed description of the waivers requested you are proposing to utilize.

All items must be keyed to the specific section(s) of the regulations for which waivers are requested.

D. Are you proposing alternative procedures under B.11 for any of the abatement activities in this area?

☒ Yes ☐ No **See Attachment 4**

If yes, attach a detailed description of the alternate procedures requested you are proposing to utilize. Alternate procedures must include a justification for not following specific

section(s) of the regulations and be as protective of public health.

E. Will any RACM remain in this area after abatement?

☐ Yes ☐ No ☒ Beyond scope of inspection

If Yes, attach a description of the RACM that will remain and the details of the on-going Operations and Maintenance Plan that will be implemented in accordance with C.1.2(b).

AGENCY USE ONLY

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Health

Office of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

SUPPLEMENTAL INFORMATION: AREA DESCRIPTION AND PROPOSED REMEDY

BUILDING LOCATION: **483 Weeden Street, Pawtucket, RI – Building 30-40**

INSTRUCTIONS: All items on this form must be addressed. All references to attachments must be clearly identified. All attachments must be marked with the specific item numbers on this form to which they pertain.

5. Area Location/Identification (Room Name/No., Evaluation Number, etc.):

Area 2 – Mechanical Room/Boiler Room

6. Attach a description of each type (e.g. pipe, ceiling, etc.) of regulated asbestos containing material (RACM) in this area, including condition, location, quantity and asbestos content. Attach a copy of the laboratory report(s) for all samples. (NOTE: All laboratory reports must include the name of the building(s) and the location(s) of the sample(s).

Refer to Attachment #2

7. Attach a current scale drawing of this area, showing direction of North and East, which has been clearly annotated to show the type, location and quantity of all RACM in this area. This drawing must include a legend which acts as a guide to the scale, symbols and nomenclature used in the drawing. If a master plan or multiple drawings are provided, indicate the specific location(s) and drawing number(s) which depict this area. The location of the decontamination chamber must also be so indicated on the appropriate drawing(s).

Refer to Attached Building Drawing

8. PROPOSED REMEDIES:

F. Attach a description of the interim Operations and Maintenance Plan that will be implemented in accordance with C.1.2 (b).

Refer to Attachment #3

(4) PROPOSED REMEDIES (cont.):

G. Will any portion of this area be abated by use of B.8 work procedures?

☒ Yes ☐ No

If Yes, indicate below which RACM in this area will be abated by use of the following B.8 work procedures:

B.8.2 & B.8.3	[REMOVAL]	
B.8.2 & B.8.4	[ENCAPSULATION]	
B.8.2 & B.8.5	[ENCLOSURE]	
B.8.6	[DEMOLITION]	
B.8.7	[GLOVEBAG]	Pipe insulation
B.8.8	[ASP. ROOFING]	

H. Are you requesting any waivers to the above selected B.8 procedure for any of the abatement activities in this area?

☒ Yes ☐ No **Pre-abatement air sampling**

If yes, attach a detailed description of the waivers requested you are proposing to utilize. All items must be keyed to the specific section(s) of the regulations for which waivers are requested.

I. Are you proposing alternative procedures under B.11 for any of the abatement activities in this area?

☐ Yes ☒ No

If yes, attach a detailed description of the alternate procedures requested you are proposing to utilize. Alternate procedures must include a justification for not following specific section(s) of the regulations and be as protective of public health.

J. Will any RACM remain in this area after abatement?

☐ Yes ☐ No ☒ Beyond scope of inspection

If Yes, attach a description of the RACM that will remain and the details of the on-going Operations and Maintenance Plan that will be implemented in accordance with C.1.2(b).

AGENCY USE ONLY

ATTACHMENT #1

In Process and Clearance Air Sampling

- A. If requested by the building owner, ECM will be on site for part time monitoring and will collect one compliance air sample outside the containment area daily for the duration of asbestos removal operations inside this building. The sample will be collected outside the decontamination unit.
- B. Any deviation in proper procedures on the part of the contractor shall be reported to the building owner. This includes inadequate paperwork on site, disagreement and/or any deviation from previously outlined work procedures, or if compliance samples in the work area vicinity exceed 0.01 f/cc. The contractor's work shall then be stopped, without repercussion to the building owner or the project-monitoring firm until any conflicts and/or problems have been resolved.
- C. After the interior areas have passed the consultant's visual inspection, he or his authorized representative will collect the following air samples and the corresponding required blanks:
 - Area 1 – A minimum of 4 PCM clearance air samples will be collected from the crawlspace.**
 - Area 2 – A minimum of 2 PCM clearance air samples will be collected from the mechanical/boiler room.**
- D. If clearance monitoring after clean-up results in fiber concentrations in excess of the RI rules and regulation clearance air requirements, the project area shall be wet-cleaned, misted with water, and encapsulated with a liquid encapsulant. A period of no less than 24 hours shall elapse before the next set of clearance air samples can be collected. The sampling process shall be repeated until a satisfactory clearance air level is attained.

The asbestos contractor is held responsible for any costs associated with the re-cleaning and re-sampling of an area should clearance air samples exceed 0.01 f/cc.

ATTACHMENT #2

ASB-16A-2

POSITIVE ASBESTOS CONTAINING MATERIALS:

There is approximately 600lf of asbestos containing pipe insulation located within the crawlspace and boiler room of building 30-40.

Visible pipe insulation debris was observed on the dirt floor within the crawlspace.

It is the contractor's responsibility to verify all quantities.

ATTACHMENT #2

(Continued)

1. Bulk Sample Results



Analysis Report
prepared for
Environmental Consulting & Management Inc

Report Date: 4/11/2022

Project Name: Galego Court - Crawlspace

Project #: 220155

SanAir ID#: 22016284



NVLAP LAB CODE 200870-0

10501 Trade Court | North Chesterfield, Virginia 23236
888.895.1177 | 804.897.1177 | fax: 804.897.0070 | IAQ@SanAir.com | SanAir.com



SanAir ID Number

22016284

FINAL REPORT

4/11/2022 10:17:12 AM

Name: Environmental Consulting & Management Inc
Address: 50 Kickemuit Ave
Bristol, RI 02809
Phone: 401-438-1360

Project Number: 220155

P.O. Number:

Project Name: Galego Court - Crawlspace

Collected Date: 4/1/2022

Received Date: 4/4/2022 10:15:00 AM

Dear Joseph M. Lepore,

We at SanAir would like to thank you for the work you recently submitted. The 17 sample(s) were received on Monday, April 04, 2022 via UPS. The final report(s) is enclosed for the following sample(s): 1A, 2A, 3A, 3B, 4A, 4B, 5A, 6A, 7A, 8A, 8B, 9A, 9B, 9C, 10A, 10B, 11A.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

A handwritten signature in black ink that reads "Sandra Sobrino". The signature is written in a cursive, flowing style.

Sandra Sobrino
Asbestos & Materials Laboratory Manager
SanAir Technologies Laboratory

Final Report Includes:

- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

Sample conditions:

- 17 samples in Good condition.



SanAir ID Number
22016284
FINAL REPORT
4/11/2022 10:17:12 AM

Name: Environmental Consulting & Management Inc
Address: 50 Kickemuit Ave
Bristol, RI 02809
Phone: 401-438-1360

Project Number: 220155
P.O. Number:
Project Name: Galego Court - Crawlspace
Collected Date: 4/1/2022
Received Date: 4/4/2022 10:15:00 AM

Analyst: Moore, Brandi

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
1A / 22016284-001 Insulation Bldg 10 Crawlspace	White Non-Fibrous Homogeneous		80% Other	15% Chrysotile 5% Amosite
2A / 22016284-002 Insulation Debris Bld 10 Crawlspace	White Non-Fibrous Homogeneous	10% Cellulose	70% Other	15% Chrysotile 5% Amosite
3A / 22016284-003 Insulation On Steam Line Bldg 20	White Non-Fibrous Heterogeneous	5% Cellulose	82% Other	10% Amosite 3% Chrysotile
3B / 22016284-004 Insulation On Steam Line Bldg 20	White Non-Fibrous Heterogeneous	5% Cellulose	80% Other	10% Amosite 5% Chrysotile
4A / 22016284-005 Insulation On Steam Line Bldg 40	White Non-Fibrous Heterogeneous		85% Other	10% Amosite 5% Chrysotile
4B / 22016284-006 Insulation On Steam Line Bldg 40	White Non-Fibrous Homogeneous		84% Other	8% Amosite 8% Chrysotile
5A / 22016284-007 Insulation Debris Bldg 50	Grey Fibrous Homogeneous	15% Cellulose	63% Other	15% Amosite 7% Chrysotile
6A / 22016284-008 Insulation Debris Bldg 30	Grey Fibrous Homogeneous		40% Other	60% Chrysotile
7A / 22016284-009 Steam Line Bldg 50	White Non-Fibrous Homogeneous		70% Other	20% Chrysotile 10% Amosite
8A / 22016284-010 Debris - Bldg 100 Crawlspace	Grey Fibrous Homogeneous		40% Other	60% Chrysotile

Analyst: *Brandi Moore*

Approved Signatory: *Jonathan Wilson*

Analysis Date: 4/11/2022

Date: 4/11/2022



SanAir ID Number

22016284

FINAL REPORT

4/11/2022 10:17:12 AM

Name: Environmental Consulting & Management Inc
Address: 50 Kickemuit Ave
Bristol, RI 02809
Phone: 401-438-1360

Project Number: 220155**P.O. Number:****Project Name:** Galego Court - Crawlspace**Collected Date:** 4/1/2022**Received Date:** 4/4/2022 10:15:00 AM

Analyst: Moore, Brandi

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
8B / 22016284-011 Debris - Bldg 100 Crawlspace	White Non-Fibrous Heterogeneous		80% Other	10% Chrysotile 10% Amosite
9A / 22016284-012 Insulation In Above Ground Boiler Rooms Wood Bldgs, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
9A / 22016284-012 Insulation In Above Ground Boiler Rooms Wood Bldgs, Wrap	White Non-Fibrous Heterogeneous	30% Cellulose 15% Glass	55% Other	None Detected
9B / 22016284-013 Insulation Wood Bldg Boiler Rooms, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
9B / 22016284-013 Insulation Wood Bldg Boiler Rooms, Wrap	White Non-Fibrous Heterogeneous	30% Cellulose	70% Other	None Detected
9C / 22016284-014 Insulation Wood Bldg Boiler Rooms, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
9C / 22016284-014 Insulation Wood Bldg Boiler Rooms, Wrap	White Non-Fibrous Heterogeneous	30% Cellulose 15% Glass	55% Other	None Detected
10A / 22016284-015 Breaching On New Furnaces - Bldg 30, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
10A / 22016284-015 Breaching On New Furnaces - Bldg 30, Wrap	White Fibrous Heterogeneous	85% Glass	15% Other	None Detected
10B / 22016284-016 Breaching On New Furnaces - Bldg 30, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected

Analyst: *Brandi Moore*Approved Signatory: *Jonathan Wilson*

Analysis Date: 4/11/2022

Date: 4/11/2022



SanAir ID Number

22016284

FINAL REPORT

4/11/2022 10:17:12 AM

Name: Environmental Consulting & Management Inc
Address: 50 Kickemuit Ave
Bristol, RI 02809
Phone: 401-438-1360

Project Number: 220155
P.O. Number:
Project Name: Galego Court - Crawlspace
Collected Date: 4/1/2022
Received Date: 4/4/2022 10:15:00 AM

Analyst: Moore, Brandi

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
10B / 22016284-016 Breaching On New Furnaces - Bldg 30, Wrap	White Fibrous Heterogeneous	85% Glass	15% Other	None Detected
11A / 22016284-017 Wallboard Bldg 20 Boiler Room, Wallboard	Grey Non-Fibrous Homogeneous	5% Cellulose	95% Other	None Detected
11A / 22016284-017 Wallboard Bldg 20 Boiler Room, Joint Compound	White Non-Fibrous Homogeneous		100% Other	None Detected

Analyst:

Brandi Moore

Approved Signatory:

Johnathan Wilson

Analysis Date: 4/11/2022

Date: 4/11/2022

Disclaimer

This report is the sole property of the client named on the SanAir Technologies Laboratory chain-of-custody (COC). Results in the report are confidential information intended only for the use by the customer listed on the COC. Neither results nor reports will be discussed with or released to any third party without our client's written permission. The final report shall not be reproduced except in full without written approval of the laboratory to assure that parts of the report are not taken out of context. The information provided in this report applies only to the samples submitted and is relevant only for the date, time, and location of sampling. The accuracy of the results is dependent upon the client's sampling procedure and information provided to the laboratory by the client. SanAir assumes no responsibility for the sampling procedure and will provide evaluation reports based solely on the sample(s) in the condition in which they arrived at the laboratory and information provided by the client on the COC, such as: project number, project name, collection dates, po number, special instructions, samples collected by, sample numbers, sample identifications, sample type, selected analysis type, flow rate, total volume or area, and start stop times that may affect the validity of the results in this report. Samples were received in good condition unless otherwise noted on the report. SanAir assumes no responsibility or liability for the manner in which the results are used or interpreted. This report does not constitute and shall not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any other U.S. governmental agencies and may not be certified by every local, state, and federal regulatory agencies.

Samples are held for a period of 60 days. Fibers smaller than 5 microns cannot be seen with this method due to scope limitations.

For NY state samples, method EPA 600/M4-82-020 is performed.

NYELAP Disclaimer:

Polarized- light microscopy is not consistently reliable in detecting asbestos in floor covering and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

Asbestos Certifications

NVLAP lab code 200870-0

City of Philadelphia: ALL-460

PA Department of Environmental Protection Number: 68-05397

California License Number: 2915

Colorado License Number: AL-23143

Connecticut License Number: PH-0105

Massachusetts License Number: AA000222

Maine License Number: LB-0075, LA-0084

New York ELAP lab ID: 11983

Rhode Island License Number: PCM00126, PLM00126, TEM00126

Texas Department of State Health Services License Number: 300440

Commonwealth of Virginia 3333000323

Washington State License Number: C989

West Virginia License Number: LT000616

Vermont License: AL166318

Louisiana Department of Environmental Quality: 212253, Cert 05088

Revision Date: 8/14/2020



10501 Trade Ct., Suite 100
N. Chesterfield, VA 23236
804.897.1177 / 888.895.1177
Fax 804.897.0070
sanair.com

Asbestos
Chain of Custody
Form 140, Rev 6, 1/26/2022

SanAir ID Number

22016284

Company: Environmental Consulting & Management Inc	Project #: 220155	Collected by: Joe Lepore
Address: 50 Kickemuit Ave	Project Name: Galego Court - Crawlspace	Phone #: 401-438-1380
City, St., Zip: Bristol, RI 02809	Date Collected: 4/1/2022	Fax #: 401-438-1316
State of Collection: RI Account#: 2667	P.O. Number:	Email: JLepore@ECMNE.com

Bulk			Air			Soil		
ABB	PLM EPA 600/R-93/116	<input checked="" type="checkbox"/>	ABA	PCM NIOSH 7400	<input type="checkbox"/>	ABSE	PLM EPA 600/R-93/116 (Qual.)	<input type="checkbox"/>
	Positive Stop	<input type="checkbox"/>	ABA-2	OSHA w/ TWA*	<input type="checkbox"/>	Soil		
ABEPA	PLM EPA 400 Point Count	<input type="checkbox"/>	ABTEM	TEM AHERA	<input type="checkbox"/>	ABSP	PLM CARB 435 (LOD <1%)	<input type="checkbox"/>
ABB1K	PLM EPA 1000 Point Count	<input type="checkbox"/>	ABATN	TEM NIOSH 7402	<input type="checkbox"/>	ABSP1	PLM CARB 435 (LOD 0.25%)	<input type="checkbox"/>
ABBen	PLM EPA NOB**	<input type="checkbox"/>	ABT2	TEM Level II	<input type="checkbox"/>	ABSP2	PLM CARB 435 (LOD 0.1%)	<input type="checkbox"/>
ABBCH	TEM Chatfield**	<input type="checkbox"/>	Other:		<input type="checkbox"/>	Dust		
ABBTM	TEM EPA NOB**	<input type="checkbox"/>	New York ELAP			ABWA	TEM Wipe ASTM D-6480	<input type="checkbox"/>
ABQ	PLM Qualitative	<input type="checkbox"/>	ABEPA2	NY ELAP 198.1	<input type="checkbox"/>	ABDMV	TEM Microvac ASTM D-5755	<input type="checkbox"/>
			ABENY	NY ELAP 198.6 PLM NOB	<input type="checkbox"/>			
			ABBNY	NY ELAP 198.4 TEM NOB	<input type="checkbox"/>			
Water						Matrix Other		
ABHE	EPA 100.2	<input type="checkbox"/>				<input type="checkbox"/>		

** Available on 24-hr. to 5-day TAT

Turn Around Times	3 HR (4 HR TEM) <input type="checkbox"/>	6 HR (8HR TEM) <input type="checkbox"/>	12 HR <input type="checkbox"/>	1 Day <input type="checkbox"/>
	<input type="checkbox"/> 2 Days	<input type="checkbox"/> 3 Days	<input checked="" type="checkbox"/> 4 Days	<input type="checkbox"/> 5 Days

Special Instructions



Sample #	Sample Identification/Location	Volume or Area	Sample Date	Flow Rate*	Start - Stop Time*
1A	Insulation Bldg 10 Crawlspace				
2A	Insulation Debris Bldg 10 Crawlspace				
3A	Insulation on Steam line Bldg 20				
3B	" "				
4A	Insulation on Steam line Bldg 40				
4B	" "				
5A	Insulation Debris Bldg 50				
6A	Insulation Debris Bldg 30				
7A	Steam Line Bldg 50				
8A	Debris - Bldg 100 Crawlspace				
8B	" "				
9A	Insulation in above Ground Boiler Rooms Wood Bldgs				

Relinquished by	Date	Time	Received by	Date	Time
	4/1/2022		ZAO	4/4/22	10:52

If no technician is provided, then the primary contact for your account will be selected. Unless scheduled, the turnaround time for all samples received after 3 pm EST will be logged in the next business day. Weekend or holiday work must be scheduled ahead of time and is charged at 150% of the 3hr TAT or a minimum charge of \$150. A courier charge will be applied for same day and one-day turnaround times for offsite work. SanAir covers Ground and Next Day Air shipping. Shipments billed to SanAir with a faster shipping rate will result in additional charges.

[illegible]

Special Instructions	
-----------------------------	--

Relinquished by	Date	Time	Received by	Date	Time
	4/1/2022			4/1/22	10:15

ATTACHMENT #3

Interim Operations & Maintenance Plan

The contractors associated with Galego Court are aware of the presence and location of ACM within the above stated areas. They have been instructed not to disturb the material due to the potential health hazards if fibers become airborne.

1. Notification

All building occupants, also any contractors entering the building and/or premises to perform work, shall be notified of the presence and location of asbestos-containing material(s) and cautioned regarding disturbance of the material(s). Also, the building occupants must be notified regarding the occurrence of asbestos abatement activities. If an emergency fiber release occurs, the following procedures shall be initiated.

2. Fiber Release Episodes

A. Minor Release Episode

If a minor fiber release episode occurs (release of less than 10 linear feet or 25 square feet of material), trained maintenance staff may perform the cleaning. Access to the area shall be restricted during clean-up. All debris shall be thoroughly wetted using amended water and placed in labeled, double six-mil polyethylene bags. The area shall then be cleaned using HEPA filtered vacuums and/or wet cleaning methods. Damaged material must be cleaned and repaired with non-asbestos-containing material. The area shall then be evaluated to decide if further action is necessary.

B. Major Release Episode

If a major fiber release episode occurs (falling or dislodging of more than 10 linear feet or 25 square feet of ACM), the cleaning must be carried out and directed by persons accredited to conduct and design response actions. After such an episode, the area shall be immediately restricted and entry to the area prevented. Warning signs shall be posted to caution people other than those qualified to deal with the problem. Air handling units in the area shall be shut down to prevent the spread of fibers beyond the problem area. A response action shall be designed and carried out by qualified personnel.

3. Training

Any employee who, because of their work, may disturb asbestos-containing material shall be trained and certified as a Competent Person as described by the RI Rules and Regulations for Asbestos Control. The program coordinator shall ensure that the procedures described above to protect the building occupants shall be followed for any operations and maintenance activities disturbing or involving ACM.

ATTACHMENT #4

Scope of Work / Description of Waivers

All proper OSHA, federal, state, and local safety regulations shall be followed.

Request of Waivers:

PHA and ECM are requesting a waiver of pre-abatement air samples for the crawlspace. The area is not meant for long term human occupancy. Due to dirt floor and miscellaneous debris within the space obtaining readable samples is not possible. All individuals entering the crawlspace prior to abatement must wear at a minimum half face respirator with HEPA filters and disposable coveralls.

Area 1:

B.11 (1.16 New Regulations) Alternate Procedures for removal of debris:

All doors, windows, floor drains, vents and other openings to the outside of the building and to areas within the building that do not contain asbestos materials shall be sealed off with 6-mil polyethylene sheeting and waterproof tape.

Negative pressure ventilation units with HEPA filtration shall be operated continuously from the time of barrier construction through the time acceptable final clearance air monitoring results are obtained. These units shall exhaust filtered air to the outside of the building. Filtered air shall not be exhausted to uncontaminated interior spaces.

Once the space is under negative pressure ventilation with all critical barriers installed, debris on floor within the crawlspace must be removed as asbestos containing material (ACM).

B.8.7 (1.14.7 New Regulations) - Glovebag Procedures:

After debris has been removed from the space the contractor shall install floor and wall sheeting.

Floors shall consist of at least one (1) layer of 6-mil polyethylene sheeting.

Wall sheeting shall consist of at least one (1) layer of 4-mil polyethylene sheeting.

Pipe insulation will be abated utilizing B.8.7 work procedures.

Manufacturer's instructions concerning preparation, sealing, utilization and removal of glovebags must be followed unless the abatement plan and/or these regulations specify more restrictive requirements.

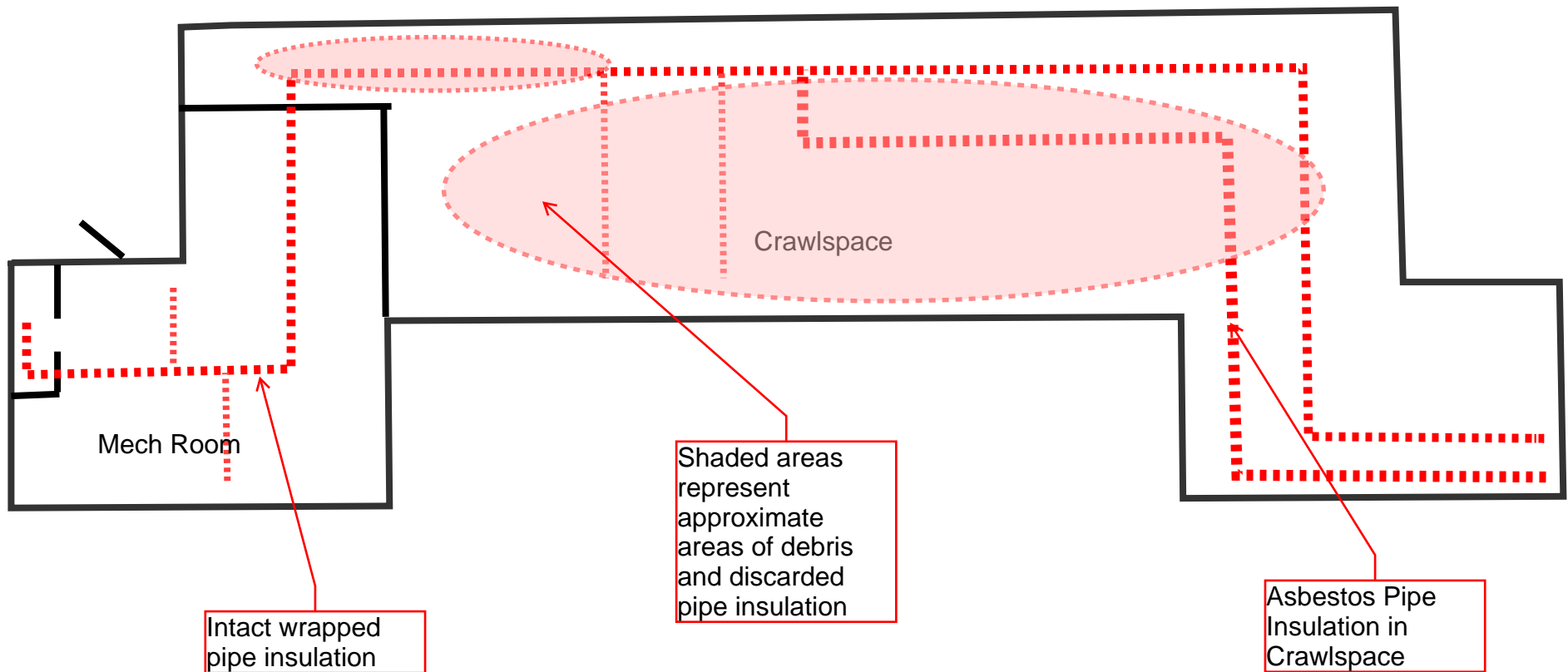
A three chamber worker decontamination enclosure system, in accordance with 29 CFR 1926.58(j), must be available immediately adjacent to the abatement area.

Area 2:

All pipe insulation located in the Mechanical Room/Boiler Room will be abated utilizing B.8.7 Glovebag Procedures.

Typical Brick Building Crawlspace and Mechanical Room

Buildings; 30-40, 50-60, 80-90, 100-110, 130-140
150-160, 190-200, 210-220



Asbestos Abatement Plan

Pawtucket Housing Authority Galego Court Building 50-60

Prepared for:

**ESM
1005 Main Street
Pawtucket, RI 02860**

Prepared by:



June 2022

RHODE ISLAND DEPARTMENT OF HEALTH

NOTARIZED CERTIFICATION OF ASBESTOS AMENDED ABATEMENT PLAN

Facility: **Galego Court – Building 50-60**

Address: **483 Weeden Street**

City/Town: **Pawtucket**

Zip: **02860**

Amendment Phase No:

Abatement Plan Written By: **Joseph M. Lepore**

Certification No: **APD00661**

Summary of specific waivers/variances being requested: **Pre-abatement air samples**

Type of Asbestos Abatement ☒ Removal ☐ Enclosure ☐ Encapsulation
☐ Demolition ☒ Glovebag ☐ Asphalt Roofing
☐ Other (specify) _____

Is this plan being submitted in response to a Notice of Violation and/or a Notice of Requirement to Submit an Asbestos Abatement Plan? ☐ Yes ☒ No

If yes, Indicate Notice/Building Evaluation No(s):

Contractor: **To be determined**

License No:

Estimated Starting Date: **07/20/2022**

Pre-Abatement Sampling Information

Bulk Samples Collected By: **Joseph M. Lepore**

Certification No: **AI00661**

Bulk Samples Analyzed By: **San Air Labs.**

Certification No: **PLM00126**

Air Samples Analyzed By: **NA**

Certification No: **NA**

Clearance Air Sampling Information

Air Samples to be Collected By: **ECM Inc. Personal**

Air Samples to be Analyzed By: **ECM Inc.**

Certification No: **PCM00131**

CERTIFICATION

I certify that: this asbestos abatement plan is prepared and submitted under the provisions of Section 23-24.5-6 of the RI Asbestos Control Act and Parts A and C of the RI Rules and Regulations for Asbestos Control; all abatement/management activities performed in conjunction with this plan must be in compliance with the specifications prescribed in this plan (when approved) and the most current revision of all applicable federal and state regulations; and the asbestos abatement/management activities described in this plan must be performed by a RI licensed asbestos abatement contractor.

Certified by: *Jessica A Liriano* Title: *Executive Director*
(Signature of Building Owner or Agent)

JESSICA A LIRIANO

Date: *7/13/22*

(Type or Printed Name of Certifier)

Subscribed and sworn to before me this *13* day of *July*, 20 *22*
STATE OF RHODE ISLAND

My Commission Expires: *2/19/2024*

(Notary Public)

AFFIX NOTARY SEAL HERE

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
Department of Health
Office of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

1. Building Owner's Name:

Pawtucket Housing Authority

2. Application Prepared By:

Joseph M. Lepore

RI certification No: **AAC-0661**

Telephone No: **401-304-6614**

3. Building Owner's Mailing Address and Telephone Number:

Street: **214 Roosevelt Ave**

City/Town: **Pawtucket**

Zip: **02860**

Telephone No.: **401-721-6000**

(Area Code, No., Ext.)

4. Person to be contacted regarding this application:

Name: **Nicholas Toth**

Telephone No: **401-721-6044**

(Area Code, No., Ext.)

5. Location where abatement work will be performed:

Name (if applicable): **Building 50-60 Crawlspace and Mechanical Room**

Street: **483 Weeden Street**

City/Town: **Pawtucket**

Zip: **02860**

6. Is this application being submitted in response to a "Notice of Requirement to Submit an Asbestos Abatement plan"? () Yes (X) No

If Yes, what is the due date for submittal of Abatement plan? _____
(Mo.) (Day) (Yr.)

Evaluation Number on the Notice: _____

7. Contractor who will be performing abatement work (if selected):

Name: **To be determined**

R.I. License No.:

8. Estimated Starting Date of Abatement Work

07
(Month)

20
(Day)

2022
(Year)

9. Estimated Completion Date of Abatement Work:

12
(Month)

31
(Day)

2022
(Year)

10. Type of Asbestos Abatement:

(Check all that apply)

☒ Removal

☐ Enclosure

☐ Encapsulation

☐ Demolition

☐ Operations and Maintenance Only

☐ Asphalt Roofing

11. Type of Building:

☐ School

☐ Privately Owned Building

☒ Publicly Owned Building

☐ Residence

☐ Other (Specify) _____

12. Building Access:

☐ Public Access (\geq 25% of Building Area)

☒ Limited Public Access ($<$ 25% of Building Area)

☐ No Public Access

13. Bulk Sample Collection and Analysis:

A. Person collecting bulk samples:

Name: **Joseph M. Lepore**

RI Certification No.: **AI00661**

B. Sampling Methodology:

☐ EPA AHERA Sampling requirements [40 CFR 763.86].

☒ EPA's Asbestos Containing Material in School Buildings: A Guidance Document (EPA-405/2-78-014) or Guidance for Controlling Asbestos Containing Materials – 1985 Edition (EPA-560-5-85-024)

☐ Other (Specify) _____

C. Laboratory performing the analysis of the bulk samples

Name: **San Air Labs**

RI Certification No.: **PLM00126**

D. Analytical Methodology:

☒ EPA Interim Method for the Determination of Asbestos in Bulk Insulation Samples [PLM method only].

☐ Other (Specify) _____

14. Pre-Abatement Air Sample Collection and Analysis:

A. Person collecting pre-abatement air samples:

Name: **NA**

Affiliation: **NA**

B. Laboratory performing analysis of pre-abatement air samples.

Name: **NA**

RI Certification No.: **NA**

C. Methodology used in the collection and analysis of pre-abatement samples:

☒ NIOSH Method 7400 [Most Current Revision]

☐ OSHA 29 CFR 1926.1101 – Appendix A & B

☐ Other (Specify)

15. A. Indicate how the regulated asbestos containing material (RACM) will be removed from the abatement site. If a hauler or broker will be used to transport the RACM to a disposal site, they must also be identified.

To be determined _____

- B. Provide the name and location of the authorized asbestos waste facility to which the removed material will be transferred for disposal (if known).

To be determined _____

16. Person designated as compliance monitor for abatement work. **[NOT REQUIRED]**

Name: **ECM Inc. Personnel**

Affiliation: **Environmental Consulting and Management Inc. (ECM Inc.)**

1. In-Process & Clearance Air Sampling: **See Attachment #1**
 - A. Describe on an attachment the type, number and location of air samples that will be collected outside the work area during the abatement project.
 - B. Describe on an attachment the plan of action to be followed if the Indoor Non-Occupational Air Exposure Standard for Asbestos (0.01 fibers per cubic centimeter) is exceeded outside the work area during the abatement project.
 - C. Describe on an attachment the type, number and location of air samples that will be collected as part of the final clearance testing.
 - D. Describe on an attachment the plan of action to be followed if the Indoor Non-Occupational Air Exposure Standard for Asbestos (0.01 fiber per cubic centimeter) is exceed during final clearance testing.
-

2. A separate and fully completed Form ASB-16A must be submitted for each area to be abated. List below the entry in Item 1 from each attached ASB-16A.

Area 1 –Crawlspace

Area 2- Mechanical Room/Boiler Room

3. I certify that this plan was prepared by me and I am responsible for its content.

Signature:  Date 06 16 2022
(Month) (Day) (Year)
Affiliation: **Environmental Consulting and Management, Inc**

4. ASBESTOS ABATEMENT PLAN APPLICATION FEE:

() Operation & Maintenance Only	\$ 75
() Up to One (1) NESHAP Unit	\$ 75
() Between One (1) & Ten (10) NESHAP Units	\$ 300
() Between Ten (10) & Fifty (50) NESHAP Units	\$ 600
() Over Fifty (50) NESHAP Units	\$ 900
(X) RI State Agency Waived Application Fee	

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Health

Office of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

SUPPLEMENTAL INFORMATION: AREA DESCRIPTION AND PROPOSED REMEDY

BUILDING LOCATION: **483 Weeden Street, Pawtucket, RI – Building 50-60**

INSTRUCTIONS: All items on this form must be addressed. All references to attachments must be clearly identified. All attachments must be marked with the specific item numbers on this form to which they pertain.

1. Area Location/Identification (Room Name/No., Evaluation Number, etc.):

Area 1 – Crawlspace

2. Attach a description of each type (e.g. pipe, ceiling, etc.) of regulated asbestos containing material (RACM) in this area, including condition, location, quantity and asbestos content. Attach a copy of the laboratory report(s) for all samples. (NOTE: All laboratory reports must include the name of the building(s) and the location(s) of the sample(s).

Refer to Attachment #2

3. Attach a current scale drawing of this area, showing direction of North and East, which has been clearly annotated to show the type, location and quantity of all RACM in this area. This drawing must include a legend which acts as a guide to the scale, symbols and nomenclature used in the drawing. If a master plan or multiple drawings are provided, indicate the specific location(s) and drawing number(s) which depict this area. The location of the decontamination chamber must also be so indicated on the appropriate drawing(s).

Refer to Attached Building Drawing

4. PROPOSED REMEDIES:

- A. Attach a description of the interim Operations and Maintenance Plan that will be implemented in accordance with C.1.2 (b).

Refer to Attachment #3

(4) PROPOSED REMEDIES (cont.):

B. Will any portion of this area be abated by use of B.8 work procedures?

☒ Yes ☐ No

If Yes, indicate below which RACM in this area will be abated by use of the following B.8 work procedures:

B.8.2 & B.8.3 [REMOVAL]

B.8.2 & B.8.4 [ENCAPSULATION]

B.8.2 & B.8.5 [ENCLOSURE]

B.8.6 [DEMOLITION]

B.8.7 [GLOVEBAG] **Pipe insulation**

B.8.8 [ASP. ROOFING]

C. Are you requesting any waivers to the above selected B.8 procedure for any of the abatement activities in this area?

☒ Yes ☐ No **Pre-abatement air sampling**

If yes, attach a detailed description of the waivers requested you are proposing to utilize.

All items must be keyed to the specific section(s) of the regulations for which waivers are requested.

D. Are you proposing alternative procedures under B.11 for any of the abatement activities in this area?

☒ Yes ☐ No **See Attachment 4**

If yes, attach a detailed description of the alternate procedures requested you are proposing to utilize. Alternate procedures must include a justification for not following specific

section(s) of the regulations and be as protective of public health.

E. Will any RACM remain in this area after abatement?

☐ Yes ☐ No ☒ Beyond scope of inspection

If Yes, attach a description of the RACM that will remain and the details of the on-going Operations and Maintenance Plan that will be implemented in accordance with C.1.2(b).

AGENCY USE ONLY

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Health

Office of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

SUPPLEMENTAL INFORMATION: AREA DESCRIPTION AND PROPOSED REMEDY

BUILDING LOCATION: **483 Weeden Street, Pawtucket, RI – Building 50-60**

INSTRUCTIONS: All items on this form must be addressed. All references to attachments must be clearly identified. All attachments must be marked with the specific item numbers on this form to which they pertain.

5. Area Location/Identification (Room Name/No., Evaluation Number, etc.):

Area 2 – Mechanical Room/Boiler Room

6. Attach a description of each type (e.g. pipe, ceiling, etc.) of regulated asbestos containing material (RACM) in this area, including condition, location, quantity and asbestos content. Attach a copy of the laboratory report(s) for all samples. (NOTE: All laboratory reports must include the name of the building(s) and the location(s) of the sample(s).

Refer to Attachment #2

7. Attach a current scale drawing of this area, showing direction of North and East, which has been clearly annotated to show the type, location and quantity of all RACM in this area. This drawing must include a legend which acts as a guide to the scale, symbols and nomenclature used in the drawing. If a master plan or multiple drawings are provided, indicate the specific location(s) and drawing number(s) which depict this area. The location of the decontamination chamber must also be so indicated on the appropriate drawing(s).

Refer to Attached Building Drawing

8. PROPOSED REMEDIES:

F. Attach a description of the interim Operations and Maintenance Plan that will be implemented in accordance with C.1.2 (b).

Refer to Attachment #3

(4) PROPOSED REMEDIES (cont.):

G. Will any portion of this area be abated by use of B.8 work procedures?

☒ Yes ☐ No

If Yes, indicate below which RACM in this area will be abated by use of the following B.8 work procedures:

B.8.2 & B.8.3 [REMOVAL]

B.8.2 & B.8.4 [ENCAPSULATION]

B.8.2 & B.8.5 [ENCLOSURE]

B.8.6 [DEMOLITION]

B.8.7 [GLOVEBAG] **Pipe insulation**

B.8.8 [ASP. ROOFING]

H. Are you requesting any waivers to the above selected B.8 procedure for any of the abatement activities in this area?

☒ Yes ☐ No **Pre-abatement air sampling**

If yes, attach a detailed description of the waivers requested you are proposing to utilize.

All items must be keyed to the specific section(s) of the regulations for which waivers are requested.

I. Are you proposing alternative procedures under B.11 for any of the abatement activities in this area?

☐ Yes ☒ No

If yes, attach a detailed description of the alternate procedures requested you are proposing to utilize. Alternate procedures must include a justification for not following specific

section(s) of the regulations and be as protective of public health.

J. Will any RACM remain in this area after abatement?

☐ Yes ☐ No ☒ Beyond scope of inspection

If Yes, attach a description of the RACM that will remain and the details of the on-going Operations and Maintenance Plan that will be implemented in accordance with C.1.2(b).

AGENCY USE ONLY

ATTACHMENT #1

In Process and Clearance Air Sampling

- A. If requested by the building owner, ECM will be on site for part time monitoring and will collect one compliance air sample outside the containment area daily for the duration of asbestos removal operations inside this building. The sample will be collected outside the decontamination unit.
- B. Any deviation in proper procedures on the part of the contractor shall be reported to the building owner. This includes inadequate paperwork on site, disagreement and/or any deviation from previously outlined work procedures, or if compliance samples in the work area vicinity exceed 0.01 f/cc. The contractor's work shall then be stopped, without repercussion to the building owner or the project-monitoring firm until any conflicts and/or problems have been resolved.
- C. After the interior areas have passed the consultant's visual inspection, he or his authorized representative will collect the following air samples and the corresponding required blanks:
 - Area 1 – A minimum of 4 PCM clearance air samples will be collected from the crawlspace.**
 - Area 2 – A minimum of 2 PCM clearance air samples will be collected from the mechanical/boiler room.**
- D. If clearance monitoring after clean-up results in fiber concentrations in excess of the RI rules and regulation clearance air requirements, the project area shall be wet-cleaned, misted with water, and encapsulated with a liquid encapsulant. A period of no less than 24 hours shall elapse before the next set of clearance air samples can be collected. The sampling process shall be repeated until a satisfactory clearance air level is attained.

The asbestos contractor is held responsible for any costs associated with the re-cleaning and re-sampling of an area should clearance air samples exceed 0.01 f/cc.

ATTACHMENT #2

ASB-16A-2

POSITIVE ASBESTOS CONTAINING MATERIALS:

There is approximately 600lf of asbestos containing pipe insulation located within the crawlspace and boiler room of building 50-60.

Visible pipe insulation debris was observed on the dirt floor within the crawlspace.

It is the contractor's responsibility to verify all quantities.

ATTACHMENT #2

(Continued)

1. Bulk Sample Results



Analysis Report
prepared for
Environmental Consulting & Management Inc

Report Date: 4/11/2022

Project Name: Galego Court - Crawlspace

Project #: 220155

SanAir ID#: 22016284



NVLAP LAB CODE 200870-0

10501 Trade Court | North Chesterfield, Virginia 23236
888.895.1177 | 804.897.1177 | fax: 804.897.0070 | IAQ@SanAir.com | SanAir.com



SanAir ID Number

22016284

FINAL REPORT

4/11/2022 10:17:12 AM

Name: Environmental Consulting & Management Inc
Address: 50 Kickemuit Ave
Bristol, RI 02809
Phone: 401-438-1360

Project Number: 220155

P.O. Number:

Project Name: Galego Court - Crawlspace

Collected Date: 4/1/2022

Received Date: 4/4/2022 10:15:00 AM

Dear Joseph M. Lepore,

We at SanAir would like to thank you for the work you recently submitted. The 17 sample(s) were received on Monday, April 04, 2022 via UPS. The final report(s) is enclosed for the following sample(s): 1A, 2A, 3A, 3B, 4A, 4B, 5A, 6A, 7A, 8A, 8B, 9A, 9B, 9C, 10A, 10B, 11A.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

A handwritten signature in black ink that reads "Sandra Sobrino". The signature is written in a cursive, flowing style.

Sandra Sobrino
Asbestos & Materials Laboratory Manager
SanAir Technologies Laboratory

Final Report Includes:

- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

Sample conditions:

- 17 samples in Good condition.



SanAir ID Number
22016284
FINAL REPORT
4/11/2022 10:17:12 AM

Name: Environmental Consulting & Management Inc
Address: 50 Kickemuit Ave
Bristol, RI 02809
Phone: 401-438-1360

Project Number: 220155
P.O. Number:
Project Name: Galego Court - Crawlspace
Collected Date: 4/1/2022
Received Date: 4/4/2022 10:15:00 AM

Analyst: Moore, Brandi

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
1A / 22016284-001 Insulation Bldg 10 Crawlspace	White Non-Fibrous Homogeneous		80% Other	15% Chrysotile 5% Amosite
2A / 22016284-002 Insulation Debris Bld 10 Crawlspace	White Non-Fibrous Homogeneous	10% Cellulose	70% Other	15% Chrysotile 5% Amosite
3A / 22016284-003 Insulation On Steam Line Bldg 20	White Non-Fibrous Heterogeneous	5% Cellulose	82% Other	10% Amosite 3% Chrysotile
3B / 22016284-004 Insulation On Steam Line Bldg 20	White Non-Fibrous Heterogeneous	5% Cellulose	80% Other	10% Amosite 5% Chrysotile
4A / 22016284-005 Insulation On Steam Line Bldg 40	White Non-Fibrous Heterogeneous		85% Other	10% Amosite 5% Chrysotile
4B / 22016284-006 Insulation On Steam Line Bldg 40	White Non-Fibrous Homogeneous		84% Other	8% Amosite 8% Chrysotile
5A / 22016284-007 Insulation Debris Bldg 50	Grey Fibrous Homogeneous	15% Cellulose	63% Other	15% Amosite 7% Chrysotile
6A / 22016284-008 Insulation Debris Bldg 30	Grey Fibrous Homogeneous		40% Other	60% Chrysotile
7A / 22016284-009 Steam Line Bldg 50	White Non-Fibrous Homogeneous		70% Other	20% Chrysotile 10% Amosite
8A / 22016284-010 Debris - Bldg 100 Crawlspace	Grey Fibrous Homogeneous		40% Other	60% Chrysotile

Analyst: *Brandi Moore*

Approved Signatory: *Jonathan Wilson*

Analysis Date: 4/11/2022

Date: 4/11/2022



SanAir ID Number

22016284

FINAL REPORT

4/11/2022 10:17:12 AM

Name: Environmental Consulting & Management Inc
Address: 50 Kickemuit Ave
Bristol, RI 02809
Phone: 401-438-1360

Project Number: 220155**P.O. Number:****Project Name:** Galego Court - Crawlspace**Collected Date:** 4/1/2022**Received Date:** 4/4/2022 10:15:00 AM

Analyst: Moore, Brandi

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
8B / 22016284-011 Debris - Bldg 100 Crawlspace	White Non-Fibrous Heterogeneous		80% Other	10% Chrysotile 10% Amosite
9A / 22016284-012 Insulation In Above Ground Boiler Rooms Wood Bldgs, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
9A / 22016284-012 Insulation In Above Ground Boiler Rooms Wood Bldgs, Wrap	White Non-Fibrous Heterogeneous	30% Cellulose 15% Glass	55% Other	None Detected
9B / 22016284-013 Insulation Wood Bldg Boiler Rooms, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
9B / 22016284-013 Insulation Wood Bldg Boiler Rooms, Wrap	White Non-Fibrous Heterogeneous	30% Cellulose	70% Other	None Detected
9C / 22016284-014 Insulation Wood Bldg Boiler Rooms, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
9C / 22016284-014 Insulation Wood Bldg Boiler Rooms, Wrap	White Non-Fibrous Heterogeneous	30% Cellulose 15% Glass	55% Other	None Detected
10A / 22016284-015 Breaching On New Furnaces - Bldg 30, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
10A / 22016284-015 Breaching On New Furnaces - Bldg 30, Wrap	White Fibrous Heterogeneous	85% Glass	15% Other	None Detected
10B / 22016284-016 Breaching On New Furnaces - Bldg 30, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected

Analyst: *Brandi Moore*Approved Signatory: *Jonathan Wilson*

Analysis Date: 4/11/2022

Date: 4/11/2022



SanAir ID Number

22016284

FINAL REPORT

4/11/2022 10:17:12 AM

Name: Environmental Consulting & Management Inc
Address: 50 Kickemuit Ave
Bristol, RI 02809
Phone: 401-438-1360

Project Number: 220155
P.O. Number:
Project Name: Galego Court - Crawlspace
Collected Date: 4/1/2022
Received Date: 4/4/2022 10:15:00 AM

Analyst: Moore, Brandi

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
10B / 22016284-016 Breaching On New Furnaces - Bldg 30, Wrap	White Fibrous Heterogeneous	85% Glass	15% Other	None Detected
11A / 22016284-017 Wallboard Bldg 20 Boiler Room, Wallboard	Grey Non-Fibrous Homogeneous	5% Cellulose	95% Other	None Detected
11A / 22016284-017 Wallboard Bldg 20 Boiler Room, Joint Compound	White Non-Fibrous Homogeneous		100% Other	None Detected

Analyst:

Brandi Moore

Approved Signatory:

Johnathan Wilson

Analysis Date: 4/11/2022

Date: 4/11/2022

Disclaimer

This report is the sole property of the client named on the SanAir Technologies Laboratory chain-of-custody (COC). Results in the report are confidential information intended only for the use by the customer listed on the COC. Neither results nor reports will be discussed with or released to any third party without our client's written permission. The final report shall not be reproduced except in full without written approval of the laboratory to assure that parts of the report are not taken out of context. The information provided in this report applies only to the samples submitted and is relevant only for the date, time, and location of sampling. The accuracy of the results is dependent upon the client's sampling procedure and information provided to the laboratory by the client. SanAir assumes no responsibility for the sampling procedure and will provide evaluation reports based solely on the sample(s) in the condition in which they arrived at the laboratory and information provided by the client on the COC, such as: project number, project name, collection dates, po number, special instructions, samples collected by, sample numbers, sample identifications, sample type, selected analysis type, flow rate, total volume or area, and start stop times that may affect the validity of the results in this report. Samples were received in good condition unless otherwise noted on the report. SanAir assumes no responsibility or liability for the manner in which the results are used or interpreted. This report does not constitute and shall not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any other U.S. governmental agencies and may not be certified by every local, state, and federal regulatory agencies.

Samples are held for a period of 60 days. Fibers smaller than 5 microns cannot be seen with this method due to scope limitations.

For NY state samples, method EPA 600/M4-82-020 is performed.

NYELAP Disclaimer:

Polarized- light microscopy is not consistently reliable in detecting asbestos in floor covering and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

Asbestos Certifications

NVLAP lab code 200870-0

City of Philadelphia: ALL-460

PA Department of Environmental Protection Number: 68-05397

California License Number: 2915

Colorado License Number: AL-23143

Connecticut License Number: PH-0105

Massachusetts License Number: AA000222

Maine License Number: LB-0075, LA-0084

New York ELAP lab ID: 11983

Rhode Island License Number: PCM00126, PLM00126, TEM00126

Texas Department of State Health Services License Number: 300440

Commonwealth of Virginia 3333000323

Washington State License Number: C989

West Virginia License Number: LT000616

Vermont License: AL166318

Louisiana Department of Environmental Quality: 212253, Cert 05088

Revision Date: 8/14/2020



10501 Trade Ct., Suite 100
N. Chesterfield, VA 23236
804.897.1177 / 888.895.1177
Fax 804.897.0070
sanair.com

Asbestos
Chain of Custody
Form 140, Rev 6, 1/26/2022

SanAir ID Number

22016284

Company: Environmental Consulting & Management Inc	Project #: 220155	Collected by: Joe Lepore
Address: 50 Kickemuit Ave	Project Name: Galego Court - Crawlspace	Phone #: 401-438-1360
City, St., Zip: Bristol, RI 02809	Date Collected: 4/1/2022	Fax #: 401-438-1316
State of Collection: RI Account#: 2667	P.O. Number:	Email: JLepore@ECMNE.com

Bulk			Air			Soil		
ABB	PLM EPA 600/R-93/116	<input checked="" type="checkbox"/>	ABA	PCM NIOSH 7400	<input type="checkbox"/>	ABSE	PLM EPA 600/R-93/116 (Qual.)	<input type="checkbox"/>
	Positive Stop	<input type="checkbox"/>	ABA-2	OSHA w/ TWA*	<input type="checkbox"/>	Soil		
ABEPA	PLM EPA 400 Point Count	<input type="checkbox"/>	ABTEM	TEM AHERA	<input type="checkbox"/>	ABSP	PLM CARB 435 (LOD <1%)	<input type="checkbox"/>
ABB1K	PLM EPA 1000 Point Count	<input type="checkbox"/>	ABATN	TEM NIOSH 7402	<input type="checkbox"/>	ABSP1	PLM CARB 435 (LOD 0.25%)	<input type="checkbox"/>
ABBN	PLM EPA NOB**	<input type="checkbox"/>	ABT2	TEM Level II	<input type="checkbox"/>	ABSP2	PLM CARB 435 (LOD 0.1%)	<input type="checkbox"/>
ABBCH	TEM Chatfield**	<input type="checkbox"/>	Other:		<input type="checkbox"/>	Dust		
ABBTM	TEM EPA NOB**	<input type="checkbox"/>	New York ELAP			ABWA	TEM Wipe ASTM D-6480	<input type="checkbox"/>
ABQ	PLM Qualitative	<input type="checkbox"/>	ABEPA2	NY ELAP 198.1	<input type="checkbox"/>	ABDMV	TEM Microvac ASTM D-5755	<input type="checkbox"/>
			ABENY	NY ELAP 198.6 PLM NOB	<input type="checkbox"/>			
			ABBNY	NY ELAP 198.4 TEM NOB	<input type="checkbox"/>			
Water						Matrix Other		
ABHE	EPA 100.2	<input type="checkbox"/>						

** Available on 24-hr. to 5-day TAT

Turn Around Times	3 HR (4 HR TEM) <input type="checkbox"/>	6 HR (8HR TEM) <input type="checkbox"/>	12 HR <input type="checkbox"/>	1 Day <input type="checkbox"/>
	<input type="checkbox"/> 2 Days	<input type="checkbox"/> 3 Days	<input checked="" type="checkbox"/> 4 Days	<input type="checkbox"/> 5 Days

Special Instructions



Sample #	Sample Identification/Location	Volume or Area	Sample Date	Flow Rate*	Start - Stop Time*
1A	Insulation Bldg 10 Crawlspace				
2A	Insulation Debris Bldg 10 Crawlspace				
3A	Insulation on Steam line Bldg 20				
3B	" "				
4A	Insulation on Steam line Bldg 40				
4B	" "				
5A	Insulation Debris Bldg 50				
6A	Insulation Debris Bldg 30				
7A	Steam Line Bldg 50				
8A	Debris - Bldg 100 Crawlspace				
8B	" "				
9A	Insulation in above Ground Boiler Rooms Wood Bldgs				

Relinquished by	Date	Time	Received by	Date	Time
	4/1/2022		ZAO	4/4/22	10:52

If no technician is provided, then the primary contact for your account will be selected. Unless scheduled, the turnaround time for all samples received after 3 pm EST will be logged in the next business day. Weekend or holiday work must be scheduled ahead of time and is charged at 150% of the 3hr TAT or a minimum charge of \$150. A courier charge will be applied for same day and one-day turnaround times for offsite work. SanAir covers Ground and Next Day Air shipping. Shipments billed to SanAir with a faster shipping rate will result in additional charges.

[illegible]

Special Instructions	
-----------------------------	--

Relinquished by	Date	Time	Received by	Date	Time
	4/1/2022			4/1/22	10:15

ATTACHMENT #3

Interim Operations & Maintenance Plan

The contractors associated with Galego Court are aware of the presence and location of ACM within the above stated areas. They have been instructed not to disturb the material due to the potential health hazards if fibers become airborne.

1. Notification

All building occupants, also any contractors entering the building and/or premises to perform work, shall be notified of the presence and location of asbestos-containing material(s) and cautioned regarding disturbance of the material(s). Also, the building occupants must be notified regarding the occurrence of asbestos abatement activities. If an emergency fiber release occurs, the following procedures shall be initiated.

2. Fiber Release Episodes

A. Minor Release Episode

If a minor fiber release episode occurs (release of less than 10 linear feet or 25 square feet of material), trained maintenance staff may perform the cleaning. Access to the area shall be restricted during clean-up. All debris shall be thoroughly wetted using amended water and placed in labeled, double six-mil polyethylene bags. The area shall then be cleaned using HEPA filtered vacuums and/or wet cleaning methods. Damaged material must be cleaned and repaired with non-asbestos-containing material. The area shall then be evaluated to decide if further action is necessary.

B. Major Release Episode

If a major fiber release episode occurs (falling or dislodging of more than 10 linear feet or 25 square feet of ACM), the cleaning must be carried out and directed by persons accredited to conduct and design response actions. After such an episode, the area shall be immediately restricted and entry to the area prevented. Warning signs shall be posted to caution people other than those qualified to deal with the problem. Air handling units in the area shall be shut down to prevent the spread of fibers beyond the problem area. A response action shall be designed and carried out by qualified personnel.

3. Training

Any employee who, because of their work, may disturb asbestos-containing material shall be trained and certified as a Competent Person as described by the RI Rules and Regulations for Asbestos Control. The program coordinator shall ensure that the procedures described above to protect the building occupants shall be followed for any operations and maintenance activities disturbing or involving ACM.

ATTACHMENT #4

Scope of Work / Description of Waivers

All proper OSHA, federal, state, and local safety regulations shall be followed.

Request of Waivers:

PHA and ECM are requesting a waiver of pre-abatement air samples for the crawlspace. The area is not meant for long term human occupancy. Due to dirt floor and miscellaneous debris within the space obtaining readable samples is not possible. All individuals entering the crawlspace prior to abatement must wear at a minimum half face respirator with HEPA filters and disposable coveralls.

Area 1:

B.11 (1.16 New Regulations) Alternate Procedures for removal of debris:

All doors, windows, floor drains, vents and other openings to the outside of the building and to areas within the building that do not contain asbestos materials shall be sealed off with 6-mil polyethylene sheeting and waterproof tape.

Negative pressure ventilation units with HEPA filtration shall be operated continuously from the time of barrier construction through the time acceptable final clearance air monitoring results are obtained. These units shall exhaust filtered air to the outside of the building. Filtered air shall not be exhausted to uncontaminated interior spaces.

Once the space is under negative pressure ventilation with all critical barriers installed, debris on floor within the crawlspace must be removed as asbestos containing material (ACM).

B.8.7 (1.14.7 New Regulations) - Glovebag Procedures:

After debris has been removed from the space the contractor shall install floor and wall sheeting.

Floors shall consist of at least one (1) layer of 6-mil polyethylene sheeting.

Wall sheeting shall consist of at least one (1) layer of 4-mil polyethylene sheeting.

Pipe insulation will be abated utilizing B.8.7 work procedures.

Manufacturer's instructions concerning preparation, sealing, utilization and removal of glovebags must be followed unless the abatement plan and/or these regulations specify more restrictive requirements.

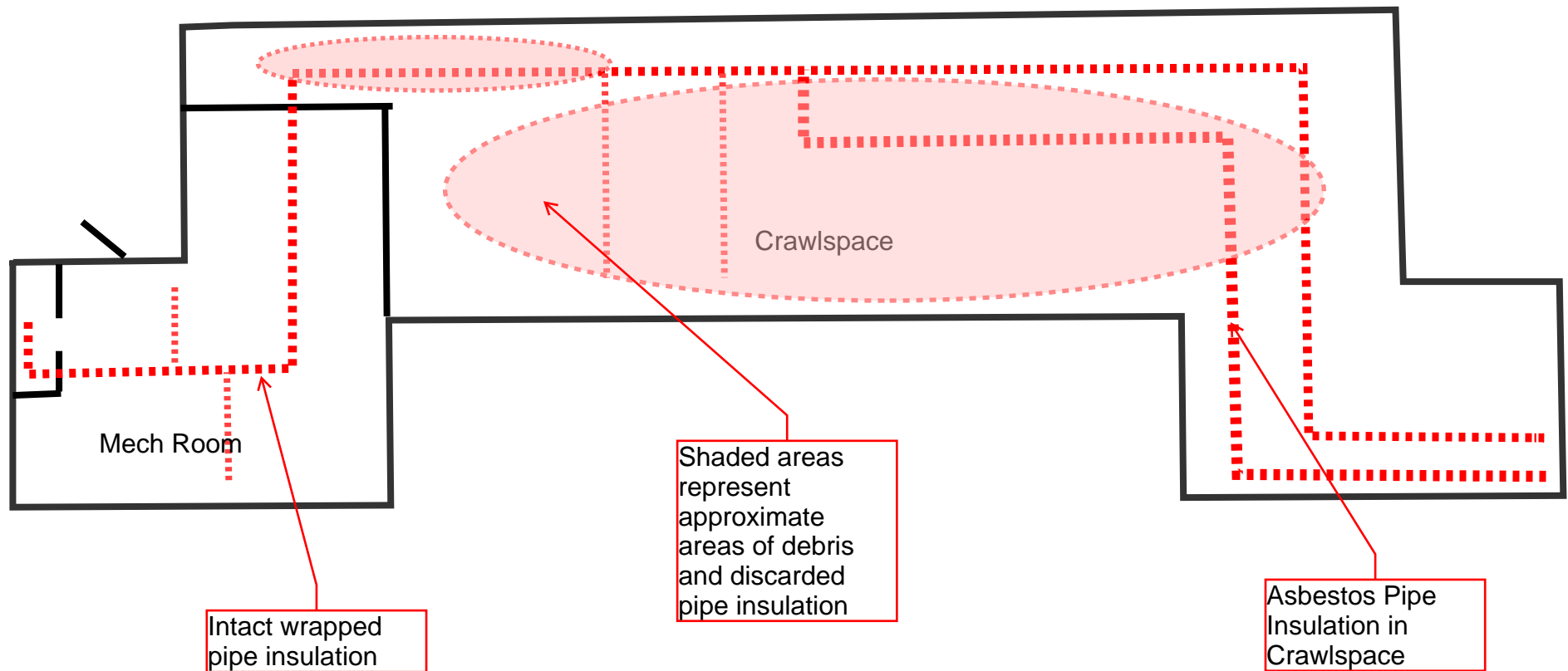
A three chamber worker decontamination enclosure system, in accordance with 29 CFR 1926.58(j), must be available immediately adjacent to the abatement area.

Area 2:

All pipe insulation located in the Mechanical Room/Boiler Room will be abated utilizing B.8.7 Glovebag Procedures.

Typical Brick Building Crawlspace and Mechanical Room

Buildings; 30-40, 50-60, 80-90, 100-110, 130-140
150-160, 190-200, 210-220



Asbestos Abatement Plan

Pawtucket Housing Authority Galego Court Building 80-90

Prepared for:

**ESM
1005 Main Street
Pawtucket, RI 02860**

Prepared by:



June 2022

RHODE ISLAND DEPARTMENT OF HEALTH

NOTARIZED CERTIFICATION OF ASBESTOS AMENDED ABATEMENT PLAN

Facility: **Galego Court – Building 80-90**

Address: **483 Weeden Street**

City/Town: **Pawtucket**

Zip: **02860**

Amendment Phase No:

Abatement Plan Written By: **Joseph M. Lepore**

Certification No: **APD00661**

Summary of specific waivers/variances being requested: **Pre-abatement air samples**

Type of Asbestos Abatement ☒ Removal ☐ Enclosure ☐ Encapsulation
☐ Demolition ☒ Glovebag ☐ Asphalt Roofing
☐ Other (specify) _____

Is this plan being submitted in response to a Notice of Violation and/or a Notice of Requirement to Submit an Asbestos Abatement Plan? ☐ Yes ☒ No

If yes, Indicate Notice/Building Evaluation No(s):

Contractor: **To be determined**

License No:

Estimated Starting Date: **07/20/2022**

Pre-Abatement Sampling Information

Bulk Samples Collected By: **Joseph M. Lepore**

Certification No: **AI00661**

Bulk Samples Analyzed By: **San Air Labs.**

Certification No: **PLM00126**

Air Samples Analyzed By: **NA**

Certification No: **NA**

Clearance Air Sampling Information

Air Samples to be Collected By: **ECM Inc. Personal**

Air Samples to be Analyzed By: **ECM Inc.**

Certification No: **PCM00131**

CERTIFICATION

I certify that: this asbestos abatement plan is prepared and submitted under the provisions of Section 23-24.5-6 of the RI Asbestos Control Act and Parts A and C of the RI Rules and Regulations for Asbestos Control; all abatement/management activities performed in conjunction with this plan must be in compliance with the specifications prescribed in this plan (when approved) and the most current revision of all applicable federal and state regulations; and the asbestos abatement/management activities described in this plan must be performed by a RI licensed asbestos abatement contractor.

Certified by: 
(Signature of Building Owner or Agent)

Title: Executive Director

Date: 7/13/22

JESSICA A. NERI (Notary Public)

Subscribed and sworn to before me this 13 day of July, 20 22

STATE OF RHODE ISLAND

My Commission Expires: 2/19/2024

(Notary Public)

AFFIX NOTARY SEAL HERE

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
Department of Health
Office of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

1. Building Owner's Name:

Pawtucket Housing Authority

2. Application Prepared By:

Joseph M. Lepore

RI certification No: **AAC-0661**

Telephone No: **401-304-6614**

3. Building Owner's Mailing Address and Telephone Number:

Street: **214 Roosevelt Ave**

City/Town: **Pawtucket**

Zip: **02860**

Telephone No.: **401-721-6000**

(Area Code, No., Ext.)

4. Person to be contacted regarding this application:

Name: **Nicholas Toth**

Telephone No: **401-721-6044**

(Area Code, No., Ext.)

5. Location where abatement work will be performed:

Name (if applicable): **Building 80-90 Crawlspace and Mechanical Room**

Street: **483 Weeden Street**

City/Town: **Pawtucket**

Zip: **02860**

6. Is this application being submitted in response to a "Notice of Requirement to Submit an Asbestos Abatement plan"? () Yes (X) No

If Yes, what is the due date for submittal of Abatement plan? _____
(Mo.) (Day) (Yr.)

Evaluation Number on the Notice: _____

7. Contractor who will be performing abatement work (if selected):

Name: **To be determined**

R.I. License No.:

8. Estimated Starting Date of Abatement Work

07
(Month)

20
(Day)

2022
(Year)

9. Estimated Completion Date of Abatement Work:

12
(Month)

31
(Day)

2022
(Year)

10. Type of Asbestos Abatement:

(Check all that apply)

☒ Removal

☐ Enclosure

☐ Encapsulation

☐ Demolition

☐ Operations and Maintenance Only

☐ Asphalt Roofing

11. Type of Building:

☐ School

☐ Privately Owned Building

☒ Publicly Owned Building

☐ Residence

☐ Other (Specify) _____

12. Building Access:

☐ Public Access (\geq 25% of Building Area)

☒ Limited Public Access ($<$ 25% of Building Area)

☐ No Public Access

13. Bulk Sample Collection and Analysis:

A. Person collecting bulk samples:

Name: **Joseph M. Lepore**

RI Certification No.: **AI00661**

B. Sampling Methodology:

☐ EPA AHERA Sampling requirements [40 CFR 763.86].

☒ EPA's Asbestos Containing Material in School Buildings: A Guidance Document (EPA-405/2-78-014) or Guidance for Controlling Asbestos Containing Materials – 1985 Edition (EPA-560-5-85-024)

☐ Other (Specify) _____

C. Laboratory performing the analysis of the bulk samples

Name: **San Air Labs**

RI Certification No.: **PLM00126**

D. Analytical Methodology:

☒ EPA Interim Method for the Determination of Asbestos in Bulk Insulation Samples [PLM method only].

☐ Other (Specify) _____

14. Pre-Abatement Air Sample Collection and Analysis:

A. Person collecting pre-abatement air samples:

Name: **NA**

Affiliation: **NA**

B. Laboratory performing analysis of pre-abatement air samples.

Name: **NA**

RI Certification No.: **NA**

C. Methodology used in the collection and analysis of pre-abatement samples:

☒ NIOSH Method 7400 [Most Current Revision]

☐ OSHA 29 CFR 1926.1101 – Appendix A & B

☐ Other (Specify)

15. A. Indicate how the regulated asbestos containing material (RACM) will be removed from the abatement site. If a hauler or broker will be used to transport the RACM to a disposal site, they must also be identified.

To be determined _____

- B. Provide the name and location of the authorized asbestos waste facility to which the removed material will be transferred for disposal (if known).

To be determined _____

16. Person designated as compliance monitor for abatement work. **[NOT REQUIRED]**

Name: **ECM Inc. Personnel**

Affiliation: **Environmental Consulting and Management Inc. (ECM Inc.)**

1. In-Process & Clearance Air Sampling: **See Attachment #1**
 - A. Describe on an attachment the type, number and location of air samples that will be collected outside the work area during the abatement project.
 - B. Describe on an attachment the plan of action to be followed if the Indoor Non-Occupational Air Exposure Standard for Asbestos (0.01 fibers per cubic centimeter) is exceeded outside the work area during the abatement project.
 - C. Describe on an attachment the type, number and location of air samples that will be collected as part of the final clearance testing.
 - D. Describe on an attachment the plan of action to be followed if the Indoor Non-Occupational Air Exposure Standard for Asbestos (0.01 fiber per cubic centimeter) is exceed during final clearance testing.
-

2. A separate and fully completed Form ASB-16A must be submitted for each area to be abated. List below the entry in Item 1 from each attached ASB-16A.

Area 1 –Crawlspace

Area 2- Mechanical Room/Boiler Room

3. I certify that this plan was prepared by me and I am responsible for its content.

Signature:  Date 06 16 2022
(Month) (Day) (Year)
Affiliation: **Environmental Consulting and Management, Inc**

4. ASBESTOS ABATEMENT PLAN APPLICATION FEE:

() Operation & Maintenance Only	\$ 75
() Up to One (1) NESHAP Unit	\$ 75
() Between One (1) & Ten (10) NESHAP Units	\$ 300
() Between Ten (10) & Fifty (50) NESHAP Units	\$ 600
() Over Fifty (50) NESHAP Units	\$ 900
(X) RI State Agency Waived Application Fee	

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Health

Office of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

SUPPLEMENTAL INFORMATION: AREA DESCRIPTION AND PROPOSED REMEDY

BUILDING LOCATION: 483 Weeden Street, Pawtucket, RI – Building 80-90

INSTRUCTIONS: All items on this form must be addressed. All references to attachments must be clearly identified. All attachments must be marked with the specific item numbers on this form to which they pertain.

1. Area Location/Identification (Room Name/No., Evaluation Number, etc.):

Area 1 – Crawlspace

2. Attach a description of each type (e.g. pipe, ceiling, etc.) of regulated asbestos containing material (RACM) in this area, including condition, location, quantity and asbestos content. Attach a copy of the laboratory report(s) for all samples. (NOTE: All laboratory reports must include the name of the building(s) and the location(s) of the sample(s).

Refer to Attachment #2

3. Attach a current scale drawing of this area, showing direction of North and East, which has been clearly annotated to show the type, location and quantity of all RACM in this area. This drawing must include a legend which acts as a guide to the scale, symbols and nomenclature used in the drawing. If a master plan or multiple drawings are provided, indicate the specific location(s) and drawing number(s) which depict this area. The location of the decontamination chamber must also be so indicated on the appropriate drawing(s).

Refer to Attached Building Drawing

4. PROPOSED REMEDIES:

- A. Attach a description of the interim Operations and Maintenance Plan that will be implemented in accordance with C.1.2 (b).

Refer to Attachment #3

(4) PROPOSED REMEDIES (cont.):

B. Will any portion of this area be abated by use of B.8 work procedures?

☒ Yes ☐ No

If Yes, indicate below which RACM in this area will be abated by use of the following B.8 work procedures:

B.8.2 & B.8.3 [REMOVAL]

B.8.2 & B.8.4 [ENCAPSULATION]

B.8.2 & B.8.5 [ENCLOSURE]

B.8.6 [DEMOLITION]

B.8.7 [GLOVEBAG] **Pipe insulation**

B.8.8 [ASP. ROOFING]

C. Are you requesting any waivers to the above selected B.8 procedure for any of the abatement activities in this area?

☒ Yes ☐ No **Pre-abatement air sampling**

If yes, attach a detailed description of the waivers requested you are proposing to utilize.

All items must be keyed to the specific section(s) of the regulations for which waivers are requested.

D. Are you proposing alternative procedures under B.11 for any of the abatement activities in this area?

☒ Yes ☐ No **See Attachment 4**

If yes, attach a detailed description of the alternate procedures requested you are proposing to utilize. Alternate procedures must include a justification for not following specific

section(s) of the regulations and be as protective of public health.

E. Will any RACM remain in this area after abatement?

☐ Yes ☐ No ☒ Beyond scope of inspection

If Yes, attach a description of the RACM that will remain and the details of the on-going Operations and Maintenance Plan that will be implemented in accordance with C.1.2(b).

AGENCY USE ONLY

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Health

Office of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

SUPPLEMENTAL INFORMATION: AREA DESCRIPTION AND PROPOSED REMEDY

BUILDING LOCATION: **483 Weeden Street, Pawtucket, RI – Building 80-90**

INSTRUCTIONS: All items on this form must be addressed. All references to attachments must be clearly identified. All attachments must be marked with the specific item numbers on this form to which they pertain.

5. Area Location/Identification (Room Name/No., Evaluation Number, etc.):

Area 2 – Mechanical Room/Boiler Room

6. Attach a description of each type (e.g. pipe, ceiling, etc.) of regulated asbestos containing material (RACM) in this area, including condition, location, quantity and asbestos content. Attach a copy of the laboratory report(s) for all samples. (NOTE: All laboratory reports must include the name of the building(s) and the location(s) of the sample(s).

Refer to Attachment #2

7. Attach a current scale drawing of this area, showing direction of North and East, which has been clearly annotated to show the type, location and quantity of all RACM in this area. This drawing must include a legend which acts as a guide to the scale, symbols and nomenclature used in the drawing. If a master plan or multiple drawings are provided, indicate the specific location(s) and drawing number(s) which depict this area. The location of the decontamination chamber must also be so indicated on the appropriate drawing(s).

Refer to Attached Building Drawing

8. PROPOSED REMEDIES:

F. Attach a description of the interim Operations and Maintenance Plan that will be implemented in accordance with C.1.2 (b).

Refer to Attachment #3

(4) PROPOSED REMEDIES (cont.):

G. Will any portion of this area be abated by use of B.8 work procedures?

☒ Yes ☐ No

If Yes, indicate below which RACM in this area will be abated by use of the following B.8 work procedures:

B.8.2 & B.8.3 [REMOVAL]

B.8.2 & B.8.4 [ENCAPSULATION]

B.8.2 & B.8.5 [ENCLOSURE]

B.8.6 [DEMOLITION]

B.8.7 [GLOVEBAG] **Pipe insulation**

B.8.8 [ASP. ROOFING]

H. Are you requesting any waivers to the above selected B.8 procedure for any of the abatement activities in this area?

☒ Yes ☐ No **Pre-abatement air sampling**

If yes, attach a detailed description of the waivers requested you are proposing to utilize.

All items must be keyed to the specific section(s) of the regulations for which waivers are requested.

I. Are you proposing alternative procedures under B.11 for any of the abatement activities in this area?

☐ Yes ☒ No

If yes, attach a detailed description of the alternate procedures requested you are proposing to utilize. Alternate procedures must include a justification for not following specific

section(s) of the regulations and be as protective of public health.

J. Will any RACM remain in this area after abatement?

☐ Yes ☐ No ☒ Beyond scope of inspection

If Yes, attach a description of the RACM that will remain and the details of the on-going Operations and Maintenance Plan that will be implemented in accordance with C.1.2(b).

AGENCY USE ONLY

ATTACHMENT #1

In Process and Clearance Air Sampling

- A. If requested by the building owner, ECM will be on site for part time monitoring and will collect one compliance air sample outside the containment area daily for the duration of asbestos removal operations inside this building. The sample will be collected outside the decontamination unit.
- B. Any deviation in proper procedures on the part of the contractor shall be reported to the building owner. This includes inadequate paperwork on site, disagreement and/or any deviation from previously outlined work procedures, or if compliance samples in the work area vicinity exceed 0.01 f/cc. The contractor's work shall then be stopped, without repercussion to the building owner or the project-monitoring firm until any conflicts and/or problems have been resolved.
- C. After the interior areas have passed the consultant's visual inspection, he or his authorized representative will collect the following air samples and the corresponding required blanks:
 - Area 1 – A minimum of 4 PCM clearance air samples will be collected from the crawlspace.**
 - Area 2 – A minimum of 2 PCM clearance air samples will be collected from the mechanical/boiler room.**
- D. If clearance monitoring after clean-up results in fiber concentrations in excess of the RI rules and regulation clearance air requirements, the project area shall be wet-cleaned, misted with water, and encapsulated with a liquid encapsulant. A period of no less than 24 hours shall elapse before the next set of clearance air samples can be collected. The sampling process shall be repeated until a satisfactory clearance air level is attained.

The asbestos contractor is held responsible for any costs associated with the re-cleaning and re-sampling of an area should clearance air samples exceed 0.01 f/cc.

ATTACHMENT #2

ASB-16A-2

POSITIVE ASBESTOS CONTAINING MATERIALS:

There is approximately 600lf of asbestos containing pipe insulation located within the crawlspace and boiler room of building 80-90.

Visible pipe insulation debris was observed on the dirt floor within the crawlspace.

It is the contractor's responsibility to verify all quantities.

ATTACHMENT #2

(Continued)

1. Bulk Sample Results



Analysis Report
prepared for
Environmental Consulting & Management Inc

Report Date: 4/11/2022

Project Name: Galego Court - Crawlspace

Project #: 220155

SanAir ID#: 22016284



NVLAP LAB CODE 200870-0

10501 Trade Court | North Chesterfield, Virginia 23236
888.895.1177 | 804.897.1177 | fax: 804.897.0070 | IAQ@SanAir.com | SanAir.com



SanAir ID Number

22016284

FINAL REPORT

4/11/2022 10:17:12 AM

Name: Environmental Consulting & Management Inc
Address: 50 Kickemuit Ave
Bristol, RI 02809
Phone: 401-438-1360

Project Number: 220155
P.O. Number:
Project Name: Galego Court - Crawlspace
Collected Date: 4/1/2022
Received Date: 4/4/2022 10:15:00 AM

Dear Joseph M. Lepore,

We at SanAir would like to thank you for the work you recently submitted. The 17 sample(s) were received on Monday, April 04, 2022 via UPS. The final report(s) is enclosed for the following sample(s): 1A, 2A, 3A, 3B, 4A, 4B, 5A, 6A, 7A, 8A, 8B, 9A, 9B, 9C, 10A, 10B, 11A.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

A handwritten signature in black ink that reads "Sandra Sobrino". The signature is written in a cursive, flowing style.

Sandra Sobrino
Asbestos & Materials Laboratory Manager
SanAir Technologies Laboratory

Final Report Includes:

- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

Sample conditions:

- 17 samples in Good condition.



SanAir ID Number
22016284
FINAL REPORT
4/11/2022 10:17:12 AM

Name: Environmental Consulting & Management Inc
Address: 50 Kickemuit Ave
Bristol, RI 02809
Phone: 401-438-1360

Project Number: 220155
P.O. Number:
Project Name: Galego Court - Crawlspace
Collected Date: 4/1/2022
Received Date: 4/4/2022 10:15:00 AM

Analyst: Moore, Brandi

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
1A / 22016284-001 Insulation Bldg 10 Crawlspace	White Non-Fibrous Homogeneous		80% Other	15% Chrysotile 5% Amosite
2A / 22016284-002 Insulation Debris Bld 10 Crawlspace	White Non-Fibrous Homogeneous	10% Cellulose	70% Other	15% Chrysotile 5% Amosite
3A / 22016284-003 Insulation On Steam Line Bldg 20	White Non-Fibrous Heterogeneous	5% Cellulose	82% Other	10% Amosite 3% Chrysotile
3B / 22016284-004 Insulation On Steam Line Bldg 20	White Non-Fibrous Heterogeneous	5% Cellulose	80% Other	10% Amosite 5% Chrysotile
4A / 22016284-005 Insulation On Steam Line Bldg 40	White Non-Fibrous Heterogeneous		85% Other	10% Amosite 5% Chrysotile
4B / 22016284-006 Insulation On Steam Line Bldg 40	White Non-Fibrous Homogeneous		84% Other	8% Amosite 8% Chrysotile
5A / 22016284-007 Insulation Debris Bldg 50	Grey Fibrous Homogeneous	15% Cellulose	63% Other	15% Amosite 7% Chrysotile
6A / 22016284-008 Insulation Debris Bldg 30	Grey Fibrous Homogeneous		40% Other	60% Chrysotile
7A / 22016284-009 Steam Line Bldg 50	White Non-Fibrous Homogeneous		70% Other	20% Chrysotile 10% Amosite
8A / 22016284-010 Debris - Bldg 100 Crawlspace	Grey Fibrous Homogeneous		40% Other	60% Chrysotile

Analyst: *Brandi Moore*

Approved Signatory: *Jonathan Wilson*

Analysis Date: 4/11/2022

Date: 4/11/2022



SanAir ID Number

22016284

FINAL REPORT

4/11/2022 10:17:12 AM

Name: Environmental Consulting & Management Inc
Address: 50 Kickemuit Ave
Bristol, RI 02809
Phone: 401-438-1360

Project Number: 220155**P.O. Number:****Project Name:** Galego Court - Crawlspace**Collected Date:** 4/1/2022**Received Date:** 4/4/2022 10:15:00 AM

Analyst: Moore, Brandi

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
8B / 22016284-011 Debris - Bldg 100 Crawlspace	White Non-Fibrous Heterogeneous		80% Other	10% Chrysotile 10% Amosite
9A / 22016284-012 Insulation In Above Ground Boiler Rooms Wood Bldgs, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
9A / 22016284-012 Insulation In Above Ground Boiler Rooms Wood Bldgs, Wrap	White Non-Fibrous Heterogeneous	30% Cellulose 15% Glass	55% Other	None Detected
9B / 22016284-013 Insulation Wood Bldg Boiler Rooms, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
9B / 22016284-013 Insulation Wood Bldg Boiler Rooms, Wrap	White Non-Fibrous Heterogeneous	30% Cellulose	70% Other	None Detected
9C / 22016284-014 Insulation Wood Bldg Boiler Rooms, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
9C / 22016284-014 Insulation Wood Bldg Boiler Rooms, Wrap	White Non-Fibrous Heterogeneous	30% Cellulose 15% Glass	55% Other	None Detected
10A / 22016284-015 Breaching On New Furnaces - Bldg 30, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
10A / 22016284-015 Breaching On New Furnaces - Bldg 30, Wrap	White Fibrous Heterogeneous	85% Glass	15% Other	None Detected
10B / 22016284-016 Breaching On New Furnaces - Bldg 30, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected

Analyst: *Brandi Moore*Approved Signatory: *Jonathan Wilson*

Analysis Date: 4/11/2022

Date: 4/11/2022



SanAir ID Number

22016284

FINAL REPORT

4/11/2022 10:17:12 AM

Name: Environmental Consulting & Management Inc
Address: 50 Kickemuit Ave
Bristol, RI 02809
Phone: 401-438-1360

Project Number: 220155
P.O. Number:
Project Name: Galego Court - Crawlspace
Collected Date: 4/1/2022
Received Date: 4/4/2022 10:15:00 AM

Analyst: Moore, Brandi

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
10B / 22016284-016 Breaching On New Furnaces - Bldg 30, Wrap	White Fibrous Heterogeneous	85% Glass	15% Other	None Detected
11A / 22016284-017 Wallboard Bldg 20 Boiler Room, Wallboard	Grey Non-Fibrous Homogeneous	5% Cellulose	95% Other	None Detected
11A / 22016284-017 Wallboard Bldg 20 Boiler Room, Joint Compound	White Non-Fibrous Homogeneous		100% Other	None Detected

Analyst:

Brandi Moore

Approved Signatory:

Johnathan Wilson

Analysis Date: 4/11/2022

Date: 4/11/2022

Disclaimer

This report is the sole property of the client named on the SanAir Technologies Laboratory chain-of-custody (COC). Results in the report are confidential information intended only for the use by the customer listed on the COC. Neither results nor reports will be discussed with or released to any third party without our client's written permission. The final report shall not be reproduced except in full without written approval of the laboratory to assure that parts of the report are not taken out of context. The information provided in this report applies only to the samples submitted and is relevant only for the date, time, and location of sampling. The accuracy of the results is dependent upon the client's sampling procedure and information provided to the laboratory by the client. SanAir assumes no responsibility for the sampling procedure and will provide evaluation reports based solely on the sample(s) in the condition in which they arrived at the laboratory and information provided by the client on the COC, such as: project number, project name, collection dates, po number, special instructions, samples collected by, sample numbers, sample identifications, sample type, selected analysis type, flow rate, total volume or area, and start stop times that may affect the validity of the results in this report. Samples were received in good condition unless otherwise noted on the report. SanAir assumes no responsibility or liability for the manner in which the results are used or interpreted. This report does not constitute and shall not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any other U.S. governmental agencies and may not be certified by every local, state, and federal regulatory agencies.

Samples are held for a period of 60 days. Fibers smaller than 5 microns cannot be seen with this method due to scope limitations.

For NY state samples, method EPA 600/M4-82-020 is performed.

NYELAP Disclaimer:

Polarized- light microscopy is not consistently reliable in detecting asbestos in floor covering and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

Asbestos Certifications

NVLAP lab code 200870-0

City of Philadelphia: ALL-460

PA Department of Environmental Protection Number: 68-05397

California License Number: 2915

Colorado License Number: AL-23143

Connecticut License Number: PH-0105

Massachusetts License Number: AA000222

Maine License Number: LB-0075, LA-0084

New York ELAP lab ID: 11983

Rhode Island License Number: PCM00126, PLM00126, TEM00126

Texas Department of State Health Services License Number: 300440

Commonwealth of Virginia 3333000323

Washington State License Number: C989

West Virginia License Number: LT000616

Vermont License: AL166318

Louisiana Department of Environmental Quality: 212253, Cert 05088

Revision Date: 8/14/2020



10501 Trade Ct., Suite 100
N. Chesterfield, VA 23236
804.897.1177 / 888.895.1177
Fax 804.897.0070
sanair.com

Asbestos
Chain of Custody
Form 140, Rev 6, 1/26/2022

SanAir ID Number

22016284

Company: Environmental Consulting & Management Inc	Project #: 220155	Collected by: Joe Lepore
Address: 50 Kickemuit Ave	Project Name: Galego Court - Crawlspace	Phone #: 401-438-1380
City, St., Zip: Bristol, RI 02809	Date Collected: 4/1/2022	Fax #: 401-438-1316
State of Collection: RI Account#: 2667	P.O. Number:	Email: JLepore@ECMNE.com

Bulk			Air			Soil		
ABB	PLM EPA 600/R-93/116	<input checked="" type="checkbox"/>	ABA	PCM NIOSH 7400	<input type="checkbox"/>	ABSE	PLM EPA 600/R-93/116 (Qual.)	<input type="checkbox"/>
	Positive Stop	<input type="checkbox"/>	ABA-2	OSHA w/ TWA*	<input type="checkbox"/>	Soil		
ABEPA	PLM EPA 400 Point Count	<input type="checkbox"/>	ABTEM	TEM AHERA	<input type="checkbox"/>	ABSP	PLM CARB 435 (LOD <1%)	<input type="checkbox"/>
ABB1K	PLM EPA 1000 Point Count	<input type="checkbox"/>	ABATN	TEM NIOSH 7402	<input type="checkbox"/>	ABSP1	PLM CARB 435 (LOD 0.25%)	<input type="checkbox"/>
ABBN	PLM EPA NOB**	<input type="checkbox"/>	ABT2	TEM Level II	<input type="checkbox"/>	ABSP2	PLM CARB 435 (LOD 0.1%)	<input type="checkbox"/>
ABBCH	TEM Chatfield**	<input type="checkbox"/>	Other:		<input type="checkbox"/>	Dust		
ABBTM	TEM EPA NOB**	<input type="checkbox"/>	New York ELAP			ABWA	TEM Wipe ASTM D-6480	<input type="checkbox"/>
ABQ	PLM Qualitative	<input type="checkbox"/>	ABEPA2	NY ELAP 198.1	<input type="checkbox"/>	ABDMV	TEM Microvac ASTM D-5755	<input type="checkbox"/>
			ABENY	NY ELAP 198.6 PLM NOB	<input type="checkbox"/>			
			ABBNY	NY ELAP 198.4 TEM NOB	<input type="checkbox"/>			
Water						Matrix Other		
ABHE	EPA 100.2	<input type="checkbox"/>						

** Available on 24-hr. to 5-day TAT

Turn Around Times	3 HR (4 HR TEM) <input type="checkbox"/>	6 HR (8HR TEM) <input type="checkbox"/>	12 HR <input type="checkbox"/>	1 Day <input type="checkbox"/>
	<input type="checkbox"/> 2 Days	<input type="checkbox"/> 3 Days	<input checked="" type="checkbox"/> 4 Days	<input type="checkbox"/> 5 Days

Special Instructions

Sample #	Sample Identification/Location	Volume or Area	Sample Date	Flow Rate*	Start - Stop Time*
1A	Insulation Bldg 10 Crawlspace				
2A	Insulation Debris Bldg 10 Crawlspace				
3A	Insulation on Steam line Bldg 20				
3B	" "				
4A	Insulation on Steam line Bldg 40				
4B	" "				
5A	Insulation Debris Bldg 50				
6A	Insulation Debris Bldg 30				
7A	Steam Line Bldg 50				
8A	Debris - Bldg 100 Crawlspace				
8B	" "				
9A	Insulation in above Ground Boiler Rooms Wood Bldgs				

Relinquished by	Date	Time	Received by	Date	Time
	4/1/2022		ZAO	4/4/22	10:52

If no technician is provided, then the primary contact for your account will be selected. Unless scheduled, the turnaround time for all samples received after 3 pm EST will be logged in the next business day. Weekend or holiday work must be scheduled ahead of time and is charged at 150% of the 3hr TAT or a minimum charge of \$150. A courier charge will be applied for same day and one-day turnaround times for offsite work. SanAir covers Ground and Next Day Air shipping. Shipments billed to SanAir with a faster shipping rate will result in additional charges.

[illegible]

Special Instructions	
-----------------------------	--

Relinquished by	Date	Time	Received by	Date	Time
<i>[Signature]</i>	4/1/2022		<i>[Signature]</i>	4/1/22	10:15

ATTACHMENT #3

Interim Operations & Maintenance Plan

The contractors associated with Galego Court are aware of the presence and location of ACM within the above stated areas. They have been instructed not to disturb the material due to the potential health hazards if fibers become airborne.

1. Notification

All building occupants, also any contractors entering the building and/or premises to perform work, shall be notified of the presence and location of asbestos-containing material(s) and cautioned regarding disturbance of the material(s). Also, the building occupants must be notified regarding the occurrence of asbestos abatement activities. If an emergency fiber release occurs, the following procedures shall be initiated.

2. Fiber Release Episodes

A. Minor Release Episode

If a minor fiber release episode occurs (release of less than 10 linear feet or 25 square feet of material), trained maintenance staff may perform the cleaning. Access to the area shall be restricted during clean-up. All debris shall be thoroughly wetted using amended water and placed in labeled, double six-mil polyethylene bags. The area shall then be cleaned using HEPA filtered vacuums and/or wet cleaning methods. Damaged material must be cleaned and repaired with non-asbestos-containing material. The area shall then be evaluated to decide if further action is necessary.

B. Major Release Episode

If a major fiber release episode occurs (falling or dislodging of more than 10 linear feet or 25 square feet of ACM), the cleaning must be carried out and directed by persons accredited to conduct and design response actions. After such an episode, the area shall be immediately restricted and entry to the area prevented. Warning signs shall be posted to caution people other than those qualified to deal with the problem. Air handling units in the area shall be shut down to prevent the spread of fibers beyond the problem area. A response action shall be designed and carried out by qualified personnel.

3. Training

Any employee who, because of their work, may disturb asbestos-containing material shall be trained and certified as a Competent Person as described by the RI Rules and Regulations for Asbestos Control. The program coordinator shall ensure that the procedures described above to protect the building occupants shall be followed for any operations and maintenance activities disturbing or involving ACM.

ATTACHMENT #4

Scope of Work / Description of Waivers

All proper OSHA, federal, state, and local safety regulations shall be followed.

Request of Waivers:

PHA and ECM are requesting a waiver of pre-abatement air samples for the crawlspace. The area is not meant for long term human occupancy. Due to dirt floor and miscellaneous debris within the space obtaining readable samples is not possible. All individuals entering the crawlspace prior to abatement must wear at a minimum half face respirator with HEPA filters and disposable coveralls.

Area 1:

B.11 (1.16 New Regulations) Alternate Procedures for removal of debris:

All doors, windows, floor drains, vents and other openings to the outside of the building and to areas within the building that do not contain asbestos materials shall be sealed off with 6-mil polyethylene sheeting and waterproof tape.

Negative pressure ventilation units with HEPA filtration shall be operated continuously from the time of barrier construction through the time acceptable final clearance air monitoring results are obtained. These units shall exhaust filtered air to the outside of the building. Filtered air shall not be exhausted to uncontaminated interior spaces.

Once the space is under negative pressure ventilation with all critical barriers installed, debris on floor within the crawlspace must be removed as asbestos containing material (ACM).

B.8.7 (1.14.7 New Regulations) - Glovebag Procedures:

After debris has been removed from the space the contractor shall install floor and wall sheeting.

Floors shall consist of at least one (1) layer of 6-mil polyethylene sheeting.

Wall sheeting shall consist of at least one (1) layer of 4-mil polyethylene sheeting.

Pipe insulation will be abated utilizing B.8.7 work procedures.

Manufacturer's instructions concerning preparation, sealing, utilization and removal of glovebags must be followed unless the abatement plan and/or these regulations specify more restrictive requirements.

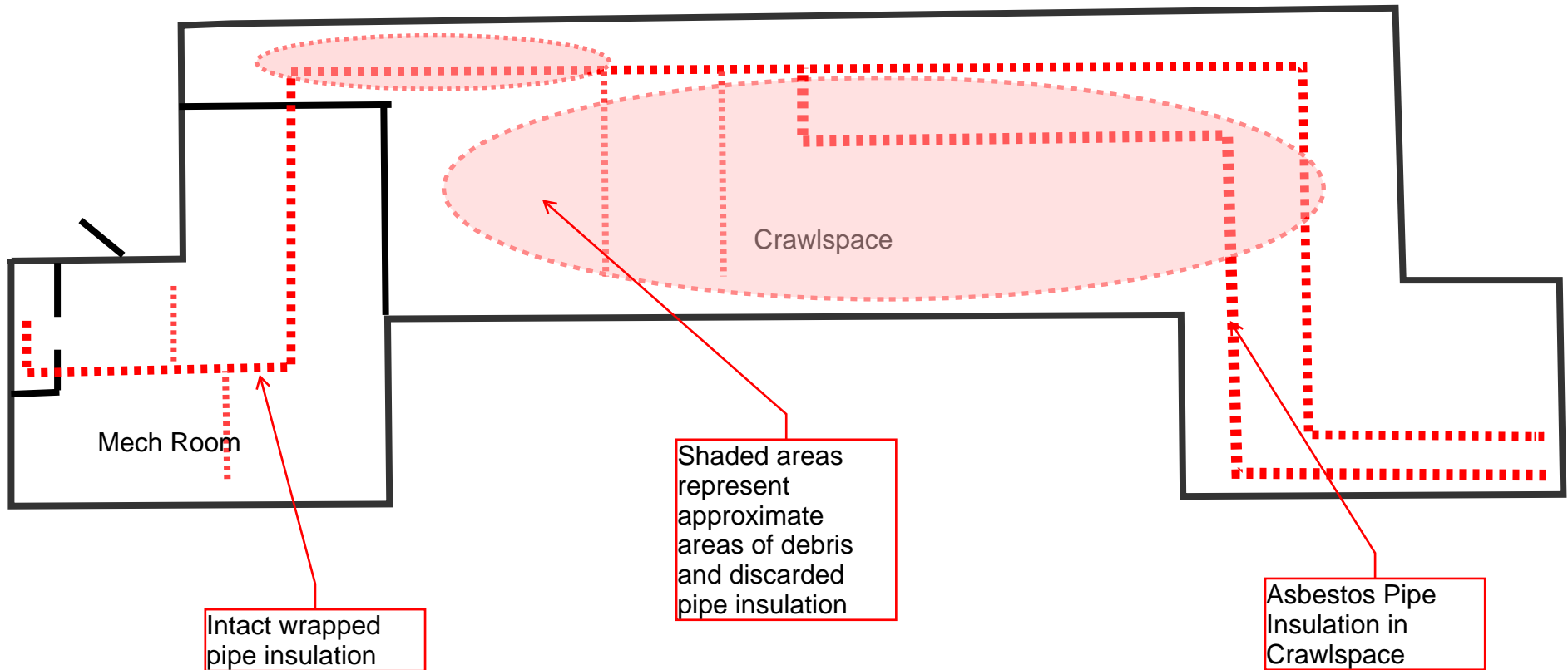
A three chamber worker decontamination enclosure system, in accordance with 29 CFR 1926.58(j), must be available immediately adjacent to the abatement area.

Area 2:

All pipe insulation located in the Mechanical Room/Boiler Room will be abated utilizing B.8.7 Glovebag Procedures.

Typical Brick Building Crawlspace and Mechanical Room

Buildings; 30-40, 50-60, 80-90, 100-110, 130-140
150-160, 190-200, 210-220



Asbestos Abatement Plan

Pawtucket Housing Authority Galego Court Building 100-110

Prepared for:

**ESM
1005 Main Street
Pawtucket, RI 02860**

Prepared by:



June 2022

RHODE ISLAND DEPARTMENT OF HEALTH

NOTARIZED CERTIFICATION OF ASBESTOS AMENDED ABATEMENT PLAN

Facility: **Galego Court – Building 100-110**

Address: **483 Weeden Street**

City/Town: **Pawtucket**

Zip: **02860**

Amendment Phase No:

Abatement Plan Written By: **Joseph M. Lepore**

Certification No: **APD00661**

Summary of specific waivers/variances being requested: **Pre-abatement air samples**

Type of Asbestos Abatement ☒ Removal ☐ Enclosure ☐ Encapsulation
☐ Demolition ☒ Glovebag ☐ Asphalt Roofing
☐ Other (specify) _____

Is this plan being submitted in response to a Notice of Violation and/or a Notice of Requirement to Submit an Asbestos Abatement Plan? ☐ Yes ☒ No

If yes, Indicate Notice/Building Evaluation No(s):

Contractor: **To be determined**

License No:

Estimated Starting Date: **07/20/2022**

Pre-Abatement Sampling Information

Bulk Samples Collected By: **Joseph M. Lepore**

Certification No: **AI00661**

Bulk Samples Analyzed By: **San Air Labs.**

Certification No: **PLM00126**

Air Samples Analyzed By: **NA**

Certification No: **NA**

Clearance Air Sampling Information

Air Samples to be Collected By: **ECM Inc. Personal**

Air Samples to be Analyzed By: **ECM Inc.**

Certification No: **PCM00131**

CERTIFICATION

I certify that: this asbestos abatement plan is prepared and submitted under the provisions of Section 23-24.5-6 of the RI Asbestos Control Act and Parts A and C of the RI Rules and Regulations for Asbestos Control; all abatement/management activities performed in conjunction with this plan must be in compliance with the specifications prescribed in this plan (when approved) and the most current revision of all applicable federal and state regulations; and the asbestos abatement/management activities described in this plan must be performed by a RI licensed asbestos abatement contractor.

Certified by: 
(Signature of Building Owner or Agent)

Title: Executive Director

Date: 7/13/22

(Typed/Printed Name of Certifier)

Subscribed to and sworn before this 13 day of July, 20 22

NOTARY PUBLIC

STATE OF RHODE ISLAND

(Notary Public)

My Commission Expires: 2/19/2024

AFFIX NOTARY SEAL HERE

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
Department of Health
Office of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

1. Building Owner's Name:

Pawtucket Housing Authority

2. Application Prepared By:

Joseph M. Lepore

RI certification No: **AAC-0661**

Telephone No: **401-304-6614**

3. Building Owner's Mailing Address and Telephone Number:

Street: **214 Roosevelt Ave**

City/Town: **Pawtucket**

Zip: **02860**

Telephone No.: **401-721-6000**

(Area Code, No., Ext.)

4. Person to be contacted regarding this application:

Name: **Nicholas Toth**

Telephone No: **401-721-6044**

(Area Code, No., Ext.)

5. Location where abatement work will be performed:

Name (if applicable): **Building 100-110 Crawlspace and Mechanical Room**

Street: **483 Weeden Street**

City/Town: **Pawtucket**

Zip: **02860**

6. Is this application being submitted in response to a "Notice of Requirement to Submit an Asbestos Abatement plan"? () Yes (X) No

If Yes, what is the due date for submittal of Abatement plan? _____
(Mo.) (Day) (Yr.)

Evaluation Number on the Notice: _____

7. Contractor who will be performing abatement work (if selected):

Name: **To be determined**

R.I. License No.:

8. Estimated Starting Date of Abatement Work

07 **20** **2022**
(Month) (Day) (Year)

9. Estimated Completion Date of Abatement Work:

12 **31** **2022**
(Month) (Day) (Year)

10. Type of Asbestos Abatement:

(Check all that apply)

☒ Removal

☐ Enclosure

☐ Encapsulation

☐ Demolition

☐ Operations and Maintenance Only

☐ Asphalt Roofing

11. Type of Building:

☐ School

☐ Privately Owned Building

☒ Publicly Owned Building

☐ Residence

☐ Other (Specify) _____

12. Building Access:

☐ Public Access (\geq 25% of Building Area)

☒ Limited Public Access ($<$ 25% of Building Area)

☐ No Public Access

13. Bulk Sample Collection and Analysis:

A. Person collecting bulk samples:

Name: **Joseph M. Lepore**

RI Certification No.: **AI00661**

B. Sampling Methodology:

☐ EPA AHERA Sampling requirements [40 CFR 763.86].

☒ EPA's Asbestos Containing Material in School Buildings: A Guidance Document (EPA-405/2-78-014) or Guidance for Controlling Asbestos Containing Materials – 1985 Edition (EPA-560-5-85-024)

☐ Other (Specify) _____

C. Laboratory performing the analysis of the bulk samples

Name: **San Air Labs**

RI Certification No.: **PLM00126**

D. Analytical Methodology:

☒ EPA Interim Method for the Determination of Asbestos in Bulk Insulation Samples [PLM method only].

☐ Other (Specify) _____

14. Pre-Abatement Air Sample Collection and Analysis:

A. Person collecting pre-abatement air samples:

Name: **NA**

Affiliation: **NA**

B. Laboratory performing analysis of pre-abatement air samples.

Name: **NA**

RI Certification No.: **NA**

C. Methodology used in the collection and analysis of pre-abatement samples:

☒ NIOSH Method 7400 [Most Current Revision]

☐ OSHA 29 CFR 1926.1101 – Appendix A & B

☐ Other (Specify)

15. A. Indicate how the regulated asbestos containing material (RACM) will be removed from the abatement site. If a hauler or broker will be used to transport the RACM to a disposal site, they must also be identified.

To be determined _____

B. Provide the name and location of the authorized asbestos waste facility to which the removed material will be transferred for disposal (if known).

To be determined _____

16. Person designated as compliance monitor for abatement work. **[NOT REQUIRED]**

Name: **ECM Inc. Personnel**

Affiliation: **Environmental Consulting and Management Inc. (ECM Inc.)**

1. In-Process & Clearance Air Sampling: **See Attachment #1**
 - A. Describe on an attachment the type, number and location of air samples that will be collected outside the work area during the abatement project.
 - B. Describe on an attachment the plan of action to be followed if the Indoor Non-Occupational Air Exposure Standard for Asbestos (0.01 fibers per cubic centimeter) is exceeded outside the work area during the abatement project.
 - C. Describe on an attachment the type, number and location of air samples that will be collected as part of the final clearance testing.
 - D. Describe on an attachment the plan of action to be followed if the Indoor Non-Occupational Air Exposure Standard for Asbestos (0.01 fiber per cubic centimeter) is exceed during final clearance testing.
-

2. A separate and fully completed Form ASB-16A must be submitted for each area to be abated. List below the entry in Item 1 from each attached ASB-16A.

Area 1 –Crawlspace

Area 2- Mechanical Room/Boiler Room

3. I certify that this plan was prepared by me and I am responsible for its content.

Signature:  Date 06 16 2022
(Month) (Day) (Year)
Affiliation: **Environmental Consulting and Management, Inc**

4. ASBESTOS ABATEMENT PLAN APPLICATION FEE:

() Operation & Maintenance Only	\$ 75
() Up to One (1) NESHAP Unit	\$ 75
() Between One (1) & Ten (10) NESHAP Units	\$ 300
() Between Ten (10) & Fifty (50) NESHAP Units	\$ 600
() Over Fifty (50) NESHAP Units	\$ 900
(X) RI State Agency Waived Application Fee	

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Health

Office of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

SUPPLEMENTAL INFORMATION: AREA DESCRIPTION AND PROPOSED REMEDY

BUILDING LOCATION: 483 Weeden Street, Pawtucket, RI – Building 100-110

INSTRUCTIONS: All items on this form must be addressed. All references to attachments must be clearly identified. All attachments must be marked with the specific item numbers on this form to which they pertain.

1. Area Location/Identification (Room Name/No., Evaluation Number, etc.):

Area 1 – Crawlspace

2. Attach a description of each type (e.g. pipe, ceiling, etc.) of regulated asbestos containing material (RACM) in this area, including condition, location, quantity and asbestos content. Attach a copy of the laboratory report(s) for all samples. (NOTE: All laboratory reports must include the name of the building(s) and the location(s) of the sample(s).

Refer to Attachment #2

3. Attach a current scale drawing of this area, showing direction of North and East, which has been clearly annotated to show the type, location and quantity of all RACM in this area. This drawing must include a legend which acts as a guide to the scale, symbols and nomenclature used in the drawing. If a master plan or multiple drawings are provided, indicate the specific location(s) and drawing number(s) which depict this area. The location of the decontamination chamber must also be so indicated on the appropriate drawing(s).

Refer to Attached Building Drawing

4. PROPOSED REMEDIES:

- A. Attach a description of the interim Operations and Maintenance Plan that will be implemented in accordance with C.1.2 (b).

Refer to Attachment #3

(4) PROPOSED REMEDIES (cont.):

B. Will any portion of this area be abated by use of B.8 work procedures?

☒ Yes ☐ No

If Yes, indicate below which RACM in this area will be abated by use of the following B.8 work procedures:

B.8.2 & B.8.3 [REMOVAL]

B.8.2 & B.8.4 [ENCAPSULATION]

B.8.2 & B.8.5 [ENCLOSURE]

B.8.6 [DEMOLITION]

B.8.7 [GLOVEBAG] **Pipe insulation**

B.8.8 [ASP. ROOFING]

C. Are you requesting any waivers to the above selected B.8 procedure for any of the abatement activities in this area?

☒ Yes ☐ No **Pre-abatement air sampling**

If yes, attach a detailed description of the waivers requested you are proposing to utilize.

All items must be keyed to the specific section(s) of the regulations for which waivers are requested.

D. Are you proposing alternative procedures under B.11 for any of the abatement activities in this area?

☒ Yes ☐ No **See Attachment 4**

If yes, attach a detailed description of the alternate procedures requested you are proposing to utilize. Alternate procedures must include a justification for not following specific

section(s) of the regulations and be as protective of public health.

E. Will any RACM remain in this area after abatement?

☐ Yes ☐ No ☒ Beyond scope of inspection

If Yes, attach a description of the RACM that will remain and the details of the on-going Operations and Maintenance Plan that will be implemented in accordance with C.1.2(b).

AGENCY USE ONLY

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Health

Office of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

SUPPLEMENTAL INFORMATION: AREA DESCRIPTION AND PROPOSED REMEDY

BUILDING LOCATION: **483 Weeden Street, Pawtucket, RI – Building 100-110**

INSTRUCTIONS: All items on this form must be addressed. All references to attachments must be clearly identified. All attachments must be marked with the specific item numbers on this form to which they pertain.

5. Area Location/Identification (Room Name/No., Evaluation Number, etc.):

Area 2 – Mechanical Room/Boiler Room

6. Attach a description of each type (e.g. pipe, ceiling, etc.) of regulated asbestos containing material (RACM) in this area, including condition, location, quantity and asbestos content. Attach a copy of the laboratory report(s) for all samples. (NOTE: All laboratory reports must include the name of the building(s) and the location(s) of the sample(s).

Refer to Attachment #2

7. Attach a current scale drawing of this area, showing direction of North and East, which has been clearly annotated to show the type, location and quantity of all RACM in this area. This drawing must include a legend which acts as a guide to the scale, symbols and nomenclature used in the drawing. If a master plan or multiple drawings are provided, indicate the specific location(s) and drawing number(s) which depict this area. The location of the decontamination chamber must also be so indicated on the appropriate drawing(s).

Refer to Attached Building Drawing

8. PROPOSED REMEDIES:

F. Attach a description of the interim Operations and Maintenance Plan that will be implemented in accordance with C.1.2 (b).

Refer to Attachment #3

(4) PROPOSED REMEDIES (cont.):

G. Will any portion of this area be abated by use of B.8 work procedures?

☒ Yes ☐ No

If Yes, indicate below which RACM in this area will be abated by use of the following B.8 work procedures:

B.8.2 & B.8.3 [REMOVAL]

B.8.2 & B.8.4 [ENCAPSULATION]

B.8.2 & B.8.5 [ENCLOSURE]

B.8.6 [DEMOLITION]

B.8.7 [GLOVEBAG] **Pipe insulation**

B.8.8 [ASP. ROOFING]

H. Are you requesting any waivers to the above selected B.8 procedure for any of the abatement activities in this area?

☒ Yes ☐ No **Pre-abatement air sampling**

If yes, attach a detailed description of the waivers requested you are proposing to utilize.

All items must be keyed to the specific section(s) of the regulations for which waivers are requested.

I. Are you proposing alternative procedures under B.11 for any of the abatement activities in this area?

☐ Yes ☒ No

If yes, attach a detailed description of the alternate procedures requested you are proposing to utilize. Alternate procedures must include a justification for not following specific

section(s) of the regulations and be as protective of public health.

J. Will any RACM remain in this area after abatement?

☐ Yes ☐ No ☒ Beyond scope of inspection

If Yes, attach a description of the RACM that will remain and the details of the on-going Operations and Maintenance Plan that will be implemented in accordance with C.1.2(b).

AGENCY USE ONLY

ATTACHMENT #1

In Process and Clearance Air Sampling

- A. If requested by the building owner, ECM will be on site for part time monitoring and will collect one compliance air sample outside the containment area daily for the duration of asbestos removal operations inside this building. The sample will be collected outside the decontamination unit.
- B. Any deviation in proper procedures on the part of the contractor shall be reported to the building owner. This includes inadequate paperwork on site, disagreement and/or any deviation from previously outlined work procedures, or if compliance samples in the work area vicinity exceed 0.01 f/cc. The contractor's work shall then be stopped, without repercussion to the building owner or the project-monitoring firm until any conflicts and/or problems have been resolved.
- C. After the interior areas have passed the consultant's visual inspection, he or his authorized representative will collect the following air samples and the corresponding required blanks:
 - Area 1 – A minimum of 4 PCM clearance air samples will be collected from the crawlspace.**
 - Area 2 – A minimum of 2 PCM clearance air samples will be collected from the mechanical/boiler room.**
- D. If clearance monitoring after clean-up results in fiber concentrations in excess of the RI rules and regulation clearance air requirements, the project area shall be wet-cleaned, misted with water, and encapsulated with a liquid encapsulant. A period of no less than 24 hours shall elapse before the next set of clearance air samples can be collected. The sampling process shall be repeated until a satisfactory clearance air level is attained.

The asbestos contractor is held responsible for any costs associated with the re-cleaning and re-sampling of an area should clearance air samples exceed 0.01 f/cc.

ATTACHMENT #2

ASB-16A-2

POSITIVE ASBESTOS CONTAINING MATERIALS:

There is approximately 600lf of asbestos containing pipe insulation located within the crawlspace and boiler room of building 100-110.

Visible pipe insulation debris was observed on the dirt floor within the crawlspace.

It is the contractor's responsibility to verify all quantities.

ATTACHMENT #2

(Continued)

1. Bulk Sample Results



Analysis Report
prepared for
Environmental Consulting & Management Inc

Report Date: 4/11/2022

Project Name: Galego Court - Crawlspace

Project #: 220155

SanAir ID#: 22016284



NVLAP LAB CODE 200870-0

10501 Trade Court | North Chesterfield, Virginia 23236
888.895.1177 | 804.897.1177 | fax: 804.897.0070 | IAQ@SanAir.com | SanAir.com



SanAir ID Number

22016284

FINAL REPORT

4/11/2022 10:17:12 AM

Name: Environmental Consulting & Management Inc
Address: 50 Kickemuit Ave
Bristol, RI 02809
Phone: 401-438-1360

Project Number: 220155

P.O. Number:

Project Name: Galego Court - Crawlspace

Collected Date: 4/1/2022

Received Date: 4/4/2022 10:15:00 AM

Dear Joseph M. Lepore,

We at SanAir would like to thank you for the work you recently submitted. The 17 sample(s) were received on Monday, April 04, 2022 via UPS. The final report(s) is enclosed for the following sample(s): 1A, 2A, 3A, 3B, 4A, 4B, 5A, 6A, 7A, 8A, 8B, 9A, 9B, 9C, 10A, 10B, 11A.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

A handwritten signature in black ink that reads "Sandra Sobrino". The signature is written in a cursive, flowing style.

Sandra Sobrino
Asbestos & Materials Laboratory Manager
SanAir Technologies Laboratory

Final Report Includes:

- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

Sample conditions:

- 17 samples in Good condition.



SanAir ID Number
22016284
FINAL REPORT
4/11/2022 10:17:12 AM

Name: Environmental Consulting & Management Inc
Address: 50 Kickemuit Ave
Bristol, RI 02809
Phone: 401-438-1360

Project Number: 220155
P.O. Number:
Project Name: Galego Court - Crawlspace
Collected Date: 4/1/2022
Received Date: 4/4/2022 10:15:00 AM

Analyst: Moore, Brandi

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
1A / 22016284-001 Insulation Bldg 10 Crawlspace	White Non-Fibrous Homogeneous		80% Other	15% Chrysotile 5% Amosite
2A / 22016284-002 Insulation Debris Bld 10 Crawlspace	White Non-Fibrous Homogeneous	10% Cellulose	70% Other	15% Chrysotile 5% Amosite
3A / 22016284-003 Insulation On Steam Line Bldg 20	White Non-Fibrous Heterogeneous	5% Cellulose	82% Other	10% Amosite 3% Chrysotile
3B / 22016284-004 Insulation On Steam Line Bldg 20	White Non-Fibrous Heterogeneous	5% Cellulose	80% Other	10% Amosite 5% Chrysotile
4A / 22016284-005 Insulation On Steam Line Bldg 40	White Non-Fibrous Heterogeneous		85% Other	10% Amosite 5% Chrysotile
4B / 22016284-006 Insulation On Steam Line Bldg 40	White Non-Fibrous Homogeneous		84% Other	8% Amosite 8% Chrysotile
5A / 22016284-007 Insulation Debris Bldg 50	Grey Fibrous Homogeneous	15% Cellulose	63% Other	15% Amosite 7% Chrysotile
6A / 22016284-008 Insulation Debris Bldg 30	Grey Fibrous Homogeneous		40% Other	60% Chrysotile
7A / 22016284-009 Steam Line Bldg 50	White Non-Fibrous Homogeneous		70% Other	20% Chrysotile 10% Amosite
8A / 22016284-010 Debris - Bldg 100 Crawlspace	Grey Fibrous Homogeneous		40% Other	60% Chrysotile

Analyst: *Brandi Moore*

Approved Signatory: *Jonathan Wilson*

Analysis Date: 4/11/2022

Date: 4/11/2022



SanAir ID Number

22016284

FINAL REPORT

4/11/2022 10:17:12 AM

Name: Environmental Consulting & Management Inc
Address: 50 Kickemuit Ave
Bristol, RI 02809
Phone: 401-438-1360

Project Number: 220155**P.O. Number:****Project Name:** Galego Court - Crawlspace**Collected Date:** 4/1/2022**Received Date:** 4/4/2022 10:15:00 AM

Analyst: Moore, Brandi

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
8B / 22016284-011 Debris - Bldg 100 Crawlspace	White Non-Fibrous Heterogeneous		80% Other	10% Chrysotile 10% Amosite
9A / 22016284-012 Insulation In Above Ground Boiler Rooms Wood Bldgs, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
9A / 22016284-012 Insulation In Above Ground Boiler Rooms Wood Bldgs, Wrap	White Non-Fibrous Heterogeneous	30% Cellulose 15% Glass	55% Other	None Detected
9B / 22016284-013 Insulation Wood Bldg Boiler Rooms, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
9B / 22016284-013 Insulation Wood Bldg Boiler Rooms, Wrap	White Non-Fibrous Heterogeneous	30% Cellulose	70% Other	None Detected
9C / 22016284-014 Insulation Wood Bldg Boiler Rooms, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
9C / 22016284-014 Insulation Wood Bldg Boiler Rooms, Wrap	White Non-Fibrous Heterogeneous	30% Cellulose 15% Glass	55% Other	None Detected
10A / 22016284-015 Breaching On New Furnaces - Bldg 30, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
10A / 22016284-015 Breaching On New Furnaces - Bldg 30, Wrap	White Fibrous Heterogeneous	85% Glass	15% Other	None Detected
10B / 22016284-016 Breaching On New Furnaces - Bldg 30, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected

Analyst: *Brandi Moore*Approved Signatory: *Jonathan Wilson*

Analysis Date: 4/11/2022

Date: 4/11/2022



SanAir ID Number

22016284

FINAL REPORT

4/11/2022 10:17:12 AM

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Project Number: 220155
P.O. Number:
Project Name: Galego Court - Crawlspace
Collected Date: 4/1/2022
Received Date: 4/4/2022 10:15:00 AM

Analyst: Moore, Brandi

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
10B / 22016284-016 Breaching On New Furnaces - Bldg 30, Wrap	White Fibrous Heterogeneous	85% Glass	15% Other	None Detected
11A / 22016284-017 Wallboard Bldg 20 Boiler Room, Wallboard	Grey Non-Fibrous Homogeneous	5% Cellulose	95% Other	None Detected
11A / 22016284-017 Wallboard Bldg 20 Boiler Room, Joint Compound	White Non-Fibrous Homogeneous		100% Other	None Detected

Analyst:

Brandi Moore

Approved Signatory:

Johnathan Wilson

Analysis Date: 4/11/2022

Date: 4/11/2022

Disclaimer

This report is the sole property of the client named on the SanAir Technologies Laboratory chain-of-custody (COC). Results in the report are confidential information intended only for the use by the customer listed on the COC. Neither results nor reports will be discussed with or released to any third party without our client's written permission. The final report shall not be reproduced except in full without written approval of the laboratory to assure that parts of the report are not taken out of context. The information provided in this report applies only to the samples submitted and is relevant only for the date, time, and location of sampling. The accuracy of the results is dependent upon the client's sampling procedure and information provided to the laboratory by the client. SanAir assumes no responsibility for the sampling procedure and will provide evaluation reports based solely on the sample(s) in the condition in which they arrived at the laboratory and information provided by the client on the COC, such as: project number, project name, collection dates, po number, special instructions, samples collected by, sample numbers, sample identifications, sample type, selected analysis type, flow rate, total volume or area, and start stop times that may affect the validity of the results in this report. Samples were received in good condition unless otherwise noted on the report. SanAir assumes no responsibility or liability for the manner in which the results are used or interpreted. This report does not constitute and shall not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any other U.S. governmental agencies and may not be certified by every local, state, and federal regulatory agencies.

Samples are held for a period of 60 days. Fibers smaller than 5 microns cannot be seen with this method due to scope limitations.

For NY state samples, method EPA 600/M4-82-020 is performed.

NYELAP Disclaimer:

Polarized- light microscopy is not consistently reliable in detecting asbestos in floor covering and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

Asbestos Certifications

NVLAP lab code 200870-0

City of Philadelphia: ALL-460

PA Department of Environmental Protection Number: 68-05397

California License Number: 2915

Colorado License Number: AL-23143

Connecticut License Number: PH-0105

Massachusetts License Number: AA000222

Maine License Number: LB-0075, LA-0084

New York ELAP lab ID: 11983

Rhode Island License Number: PCM00126, PLM00126, TEM00126

Texas Department of State Health Services License Number: 300440

Commonwealth of Virginia 3333000323

Washington State License Number: C989

West Virginia License Number: LT000616

Vermont License: AL166318

Louisiana Department of Environmental Quality: 212253, Cert 05088

Revision Date: 8/14/2020



10501 Trade Ct., Suite 100
N. Chesterfield, VA 23236
804.897.1177 / 888.895.1177
Fax 804.897.0070
sanair.com

Asbestos
Chain of Custody
Form 140, Rev 6, 1/26/2022

SanAir ID Number

22016284

Company: Environmental Consulting & Management Inc	Project #: 220155	Collected by: Joe Lepore
Address: 50 Kickemuit Ave	Project Name: Galego Court - Crawlspace	Phone #: 401-438-1380
City, St., Zip: Bristol, RI 02809	Date Collected: 4/1/2022	Fax #: 401-438-1316
State of Collection: RI Account#: 2667	P.O. Number:	Email: JLepore@ECMNE.com

Bulk			Air			Soil		
ABB	PLM EPA 600/R-93/116	<input checked="" type="checkbox"/>	ABA	PCM NIOSH 7400	<input type="checkbox"/>	ABSE	PLM EPA 600/R-93/116 (Qual.)	<input type="checkbox"/>
	Positive Stop	<input type="checkbox"/>	ABA-2	OSHA w/ TWA*	<input type="checkbox"/>	Soil		
ABEPA	PLM EPA 400 Point Count	<input type="checkbox"/>	ABTEM	TEM AHERA	<input type="checkbox"/>	ABSP	PLM CARB 435 (LOD <1%)	<input type="checkbox"/>
ABB1K	PLM EPA 1000 Point Count	<input type="checkbox"/>	ABATN	TEM NIOSH 7402	<input type="checkbox"/>	ABSP1	PLM CARB 435 (LOD 0.25%)	<input type="checkbox"/>
ABBN	PLM EPA NOB**	<input type="checkbox"/>	ABT2	TEM Level II	<input type="checkbox"/>	ABSP2	PLM CARB 435 (LOD 0.1%)	<input type="checkbox"/>
ABBCH	TEM Chatfield**	<input type="checkbox"/>	Other:		<input type="checkbox"/>	Dust		
ABBTM	TEM EPA NOB**	<input type="checkbox"/>	New York ELAP			ABWA	TEM Wipe ASTM D-6480	<input type="checkbox"/>
ABQ	PLM Qualitative	<input type="checkbox"/>	ABEPA2	NY ELAP 198.1	<input type="checkbox"/>	ABDMV	TEM Microvac ASTM D-5755	<input type="checkbox"/>
			ABENY	NY ELAP 198.6 PLM NOB	<input type="checkbox"/>			
			ABBNY	NY ELAP 198.4 TEM NOB	<input type="checkbox"/>			
Water						Matrix Other		
ABHE	EPA 100.2	<input type="checkbox"/>				<input type="checkbox"/>		

** Available on 24-hr. to 5-day TAT

Turn Around Times	3 HR (4 HR TEM) <input type="checkbox"/>	6 HR (8HR TEM) <input type="checkbox"/>	12 HR <input type="checkbox"/>	1 Day <input type="checkbox"/>
	<input type="checkbox"/> 2 Days	<input type="checkbox"/> 3 Days	<input checked="" type="checkbox"/> 4 Days	<input type="checkbox"/> 5 Days

Special Instructions

Sample #	Sample Identification/Location	Volume or Area	Sample Date	Flow Rate*	Start - Stop Time*
1A	Insulation Bldg 10 Crawlspace				
2A	Insulation Debris Bldg 10 Crawlspace				
3A	Insulation on Steam line Bldg 20				
3B	" "				
4A	Insulation on Steam line Bldg 40				
4B	" "				
5A	Insulation Debris Bldg 50				
6A	Insulation Debris Bldg 30				
7A	Steam Line Bldg 50				
8A	Debris - Bldg 100 Crawlspace				
8B	" "				
9A	Insulation in above Ground Boiler Rooms Wood Bldgs				

Relinquished by	Date	Time	Received by	Date	Time
	4/1/2022		ZAO	4/4/22	10:52

If no technician is provided, then the primary contact for your account will be selected. Unless scheduled, the turnaround time for all samples received after 3 pm EST will be logged in the next business day. Weekend or holiday work must be scheduled ahead of time and is charged at 150% of the 3hr TAT or a minimum charge of \$150. A courier charge will be applied for same day and one-day turnaround times for offsite work. SanAir covers Ground and Next Day Air shipping. Shipments billed to SanAir with a faster shipping rate will result in additional charges.

[illegible]

Special Instructions	
-----------------------------	--

Relinquished by	Date	Time	Received by	Date	Time
<i>[Signature]</i>	4/1/2022		<i>[Signature]</i>	4/1/22	10:15

ATTACHMENT #3

Interim Operations & Maintenance Plan

The contractors associated with Galego Court are aware of the presence and location of ACM within the above stated areas. They have been instructed not to disturb the material due to the potential health hazards if fibers become airborne.

1. Notification

All building occupants, also any contractors entering the building and/or premises to perform work, shall be notified of the presence and location of asbestos-containing material(s) and cautioned regarding disturbance of the material(s). Also, the building occupants must be notified regarding the occurrence of asbestos abatement activities. If an emergency fiber release occurs, the following procedures shall be initiated.

2. Fiber Release Episodes

A. Minor Release Episode

If a minor fiber release episode occurs (release of less than 10 linear feet or 25 square feet of material), trained maintenance staff may perform the cleaning. Access to the area shall be restricted during clean-up. All debris shall be thoroughly wetted using amended water and placed in labeled, double six-mil polyethylene bags. The area shall then be cleaned using HEPA filtered vacuums and/or wet cleaning methods. Damaged material must be cleaned and repaired with non-asbestos-containing material. The area shall then be evaluated to decide if further action is necessary.

B. Major Release Episode

If a major fiber release episode occurs (falling or dislodging of more than 10 linear feet or 25 square feet of ACM), the cleaning must be carried out and directed by persons accredited to conduct and design response actions. After such an episode, the area shall be immediately restricted and entry to the area prevented. Warning signs shall be posted to caution people other than those qualified to deal with the problem. Air handling units in the area shall be shut down to prevent the spread of fibers beyond the problem area. A response action shall be designed and carried out by qualified personnel.

3. Training

Any employee who, because of their work, may disturb asbestos-containing material shall be trained and certified as a Competent Person as described by the RI Rules and Regulations for Asbestos Control. The program coordinator shall ensure that the procedures described above to protect the building occupants shall be followed for any operations and maintenance activities disturbing or involving ACM.

ATTACHMENT #4

Scope of Work / Description of Waivers

All proper OSHA, federal, state, and local safety regulations shall be followed.

Request of Waivers:

PHA and ECM are requesting a waiver of pre-abatement air samples for the crawlspace. The area is not meant for long term human occupancy. Due to dirt floor and miscellaneous debris within the space obtaining readable samples is not possible. All individuals entering the crawlspace prior to abatement must wear at a minimum half face respirator with HEPA filters and disposable coveralls.

Area 1:

B.11 (1.16 New Regulations) Alternate Procedures for removal of debris:

All doors, windows, floor drains, vents and other openings to the outside of the building and to areas within the building that do not contain asbestos materials shall be sealed off with 6-mil polyethylene sheeting and waterproof tape.

Negative pressure ventilation units with HEPA filtration shall be operated continuously from the time of barrier construction through the time acceptable final clearance air monitoring results are obtained. These units shall exhaust filtered air to the outside of the building. Filtered air shall not be exhausted to uncontaminated interior spaces.

Once the space is under negative pressure ventilation with all critical barriers installed, debris on floor within the crawlspace must be removed as asbestos containing material (ACM).

B.8.7 (1.14.7 New Regulations) - Glovebag Procedures:

After debris has been removed from the space the contractor shall install floor and wall sheeting.

Floors shall consist of at least one (1) layer of 6-mil polyethylene sheeting.

Wall sheeting shall consist of at least one (1) layer of 4-mil polyethylene sheeting.

Pipe insulation will be abated utilizing B.8.7 work procedures.

Manufacturer's instructions concerning preparation, sealing, utilization and removal of glovebags must be followed unless the abatement plan and/or these regulations specify more restrictive requirements.

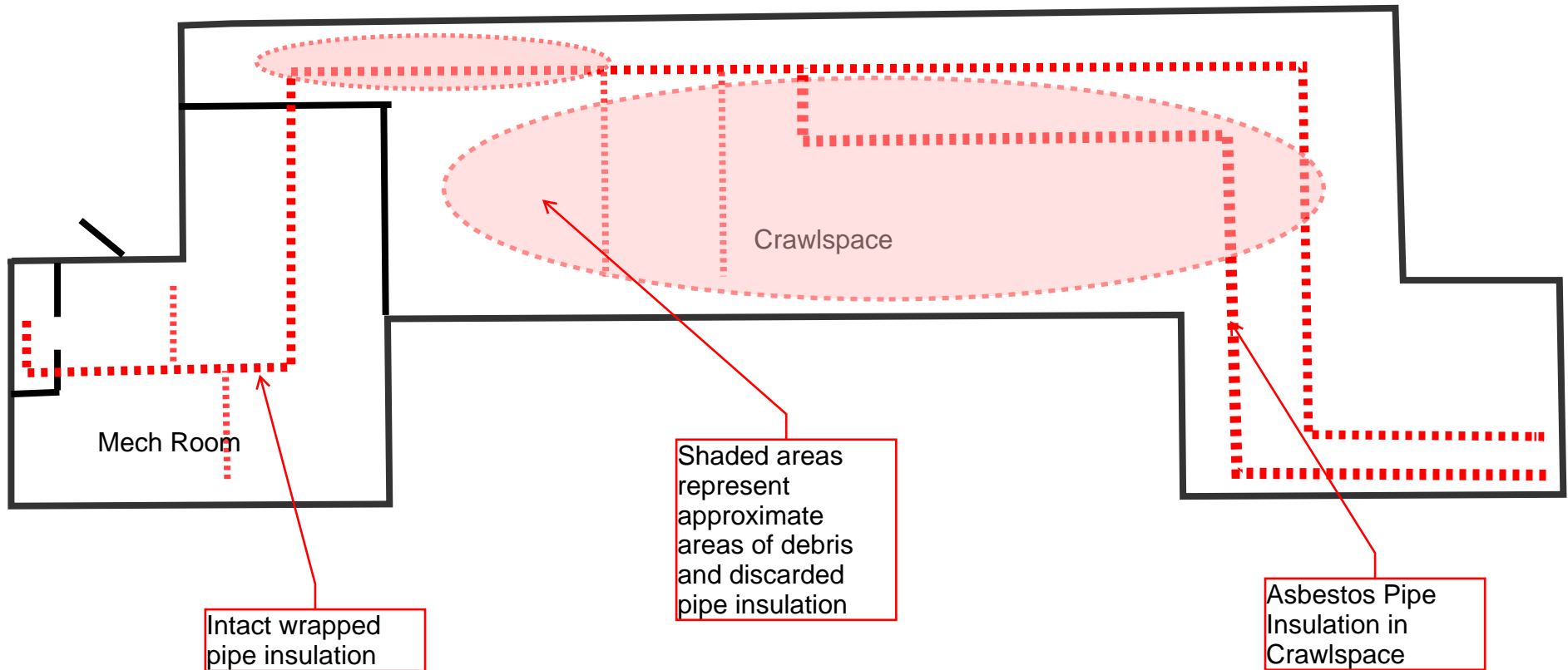
A three chamber worker decontamination enclosure system, in accordance with 29 CFR 1926.58(j), must be available immediately adjacent to the abatement area.

Area 2:

All pipe insulation located in the Mechanical Room/Boiler Room will be abated utilizing B.8.7 Glovebag Procedures.

Typical Brick Building Crawlspace and Mechanical Room

Buildings; 30-40, 50-60, 80-90, 100-110, 130-140
150-160, 190-200, 210-220



Asbestos Abatement Plan

Pawtucket Housing Authority Galego Court Building 130-140

Prepared for:

**ESM
1005 Main Street
Pawtucket, RI 02860**

Prepared by:



June 2022

RHODE ISLAND DEPARTMENT OF HEALTH

NOTARIZED CERTIFICATION OF ASBESTOS AMENDED ABATEMENT PLAN

Facility: **Galego Court – Building 130-140**

Address: **483 Weeden Street**

City/Town: **Pawtucket**

Zip: **02860**

Amendment Phase No:

Abatement Plan Written By: **Joseph M. Lepore**

Certification No: **APD00661**

Summary of specific waivers/variances being requested: **Pre-abatement air samples**

Type of Asbestos Abatement ☒ Removal ☐ Enclosure ☐ Encapsulation
☐ Demolition ☒ Glovebag ☐ Asphalt Roofing
☐ Other (specify) _____

Is this plan being submitted in response to a Notice of Violation and/or a Notice of Requirement to Submit an Asbestos Abatement Plan? ☐ Yes ☒ No

If yes, Indicate Notice/Building Evaluation No(s):

Contractor: **To be determined**

License No:

Estimated Starting Date: **07/20/2022**

Pre-Abatement Sampling Information

Bulk Samples Collected By: **Joseph M. Lepore**

Certification No: **AI00661**

Bulk Samples Analyzed By: **San Air Labs.**

Certification No: **PLM00126**

Air Samples Analyzed By: **NA**

Certification No: **NA**

Clearance Air Sampling Information

Air Samples to be Collected By: **ECM Inc. Personal**

Air Samples to be Analyzed By: **ECM Inc.**

Certification No: **PCM00131**

CERTIFICATION

I certify that: this asbestos abatement plan is prepared and submitted under the provisions of Section 23-24.5-6 of the RI Asbestos Control Act and Parts A and C of the RI Rules and Regulations for Asbestos Control; all abatement/management activities performed in conjunction with this plan must be in compliance with the specifications prescribed in this plan (when approved) and the most current revision of all applicable federal and state regulations; and the asbestos abatement/management activities described in this plan must be performed by a RI licensed asbestos abatement contractor.

Certified by: *Jessica A. Liriano* Title: *Executive Director*
(Signature of Building Owner or Agent)

JESSICA A LIRIANO

Date: *7/13/22*

NOTARY PUBLIC
(Typed/Printed Name of Certifier)

Subscribed and sworn to before me this *13* day of *July*, 20 *22*

My Commission Expires: *2/19/2024*

(Notary Public)

AFFIX NOTARY SEAL HERE

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
Department of Health
Office of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

1. Building Owner's Name:

Pawtucket Housing Authority

2. Application Prepared By:

Joseph M. Lepore

RI certification No: **AAC-0661**

Telephone No: **401-304-6614**

3. Building Owner's Mailing Address and Telephone Number:

Street: **214 Roosevelt Ave**

City/Town: **Pawtucket**

Zip: **02860**

Telephone No.: **401-721-6000**

(Area Code, No., Ext.)

4. Person to be contacted regarding this application:

Name: **Nicholas Toth**

Telephone No: **401-721-6044**

(Area Code, No., Ext.)

5. Location where abatement work will be performed:

Name (if applicable): **Building 100-110 Crawlspace and Mechanical Room**

Street: **483 Weeden Street**

City/Town: **Pawtucket**

Zip: **02860**

6. Is this application being submitted in response to a "Notice of Requirement to Submit an Asbestos Abatement plan"? () Yes (X) No

If Yes, what is the due date for submittal of Abatement plan? _____
(Mo.) (Day) (Yr.)

Evaluation Number on the Notice: _____

7. Contractor who will be performing abatement work (if selected):

Name: **To be determined**

R.I. License No.:

8. Estimated Starting Date of Abatement Work

07
(Month)

20
(Day)

2022
(Year)

9. Estimated Completion Date of Abatement Work:

12
(Month)

31
(Day)

2022
(Year)

10. Type of Asbestos Abatement:

(Check all that apply)

☒ Removal

☐ Enclosure

☐ Encapsulation

☐ Demolition

☐ Operations and Maintenance Only

☐ Asphalt Roofing

11. Type of Building:

☐ School

☐ Privately Owned Building

☒ Publicly Owned Building

☐ Residence

☐ Other (Specify) _____

12. Building Access:

☐ Public Access (\geq 25% of Building Area)

☒ Limited Public Access ($<$ 25% of Building Area)

☐ No Public Access

13. Bulk Sample Collection and Analysis:

A. Person collecting bulk samples:

Name: **Joseph M. Lepore**

RI Certification No.: **AI00661**

B. Sampling Methodology:

☐ EPA AHERA Sampling requirements [40 CFR 763.86].

☒ EPA's Asbestos Containing Material in School Buildings: A Guidance Document (EPA-405/2-78-014) or Guidance for Controlling Asbestos Containing Materials – 1985 Edition (EPA-560-5-85-024)

☐ Other (Specify) _____

C. Laboratory performing the analysis of the bulk samples

Name: **San Air Labs**

RI Certification No.: **PLM00126**

D. Analytical Methodology:

☒ EPA Interim Method for the Determination of Asbestos in Bulk Insulation Samples [PLM method only].

☐ Other (Specify) _____

14. Pre-Abatement Air Sample Collection and Analysis:

A. Person collecting pre-abatement air samples:

Name: **NA**

Affiliation: **NA**

B. Laboratory performing analysis of pre-abatement air samples.

Name: **NA**

RI Certification No.: **NA**

C. Methodology used in the collection and analysis of pre-abatement samples:

☒ NIOSH Method 7400 [Most Current Revision]

☐ OSHA 29 CFR 1926.1101 – Appendix A & B

☐ Other (Specify)

15. A. Indicate how the regulated asbestos containing material (RACM) will be removed from the abatement site. If a hauler or broker will be used to transport the RACM to a disposal site, they must also be identified.

To be determined _____

- B. Provide the name and location of the authorized asbestos waste facility to which the removed material will be transferred for disposal (if known).

To be determined _____

16. Person designated as compliance monitor for abatement work. **[NOT REQUIRED]**

Name: **ECM Inc. Personnel**

Affiliation: **Environmental Consulting and Management Inc. (ECM Inc.)**

1. In-Process & Clearance Air Sampling: **See Attachment #1**
 - A. Describe on an attachment the type, number and location of air samples that will be collected outside the work area during the abatement project.
 - B. Describe on an attachment the plan of action to be followed if the Indoor Non-Occupational Air Exposure Standard for Asbestos (0.01 fibers per cubic centimeter) is exceeded outside the work area during the abatement project.
 - C. Describe on an attachment the type, number and location of air samples that will be collected as part of the final clearance testing.
 - D. Describe on an attachment the plan of action to be followed if the Indoor Non-Occupational Air Exposure Standard for Asbestos (0.01 fiber per cubic centimeter) is exceed during final clearance testing.
-

2. A separate and fully completed Form ASB-16A must be submitted for each area to be abated. List below the entry in Item 1 from each attached ASB-16A.

Area 1 –Crawlspace

Area 2- Mechanical Room/Boiler Room

3. I certify that this plan was prepared by me and I am responsible for its content.

Signature:  Date 06 16 2022
(Month) (Day) (Year)

Affiliation: **Environmental Consulting and Management, Inc**

4. ASBESTOS ABATEMENT PLAN APPLICATION FEE:

<input type="checkbox"/> Operation & Maintenance Only	\$ 75
<input type="checkbox"/> Up to One (1) NESHAP Unit	\$ 75
<input type="checkbox"/> Between One (1) & Ten (10) NESHAP Units	\$ 300
<input type="checkbox"/> Between Ten (10) & Fifty (50) NESHAP Units	\$ 600
<input type="checkbox"/> Over Fifty (50) NESHAP Units	\$ 900
<input checked="" type="checkbox"/> RI State Agency Waived Application Fee	

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Health

Office of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

SUPPLEMENTAL INFORMATION: AREA DESCRIPTION AND PROPOSED REMEDY

BUILDING LOCATION: 483 Weeden Street, Pawtucket, RI – Building 130-140

INSTRUCTIONS: All items on this form must be addressed. All references to attachments must be clearly identified. All attachments must be marked with the specific item numbers on this form to which they pertain.

1. Area Location/Identification (Room Name/No., Evaluation Number, etc.):

Area 1 – Crawlspace

2. Attach a description of each type (e.g. pipe, ceiling, etc.) of regulated asbestos containing material (RACM) in this area, including condition, location, quantity and asbestos content. Attach a copy of the laboratory report(s) for all samples. (NOTE: All laboratory reports must include the name of the building(s) and the location(s) of the sample(s).

Refer to Attachment #2

3. Attach a current scale drawing of this area, showing direction of North and East, which has been clearly annotated to show the type, location and quantity of all RACM in this area. This drawing must include a legend which acts as a guide to the scale, symbols and nomenclature used in the drawing. If a master plan or multiple drawings are provided, indicate the specific location(s) and drawing number(s) which depict this area. The location of the decontamination chamber must also be so indicated on the appropriate drawing(s).

Refer to Attached Building Drawing

4. PROPOSED REMEDIES:

- A. Attach a description of the interim Operations and Maintenance Plan that will be implemented in accordance with C.1.2 (b).

Refer to Attachment #3

(4) PROPOSED REMEDIES (cont.):

B. Will any portion of this area be abated by use of B.8 work procedures?

☒ Yes ☐ No

If Yes, indicate below which RACM in this area will be abated by use of the following B.8 work procedures:

B.8.2 & B.8.3 [REMOVAL]

B.8.2 & B.8.4 [ENCAPSULATION]

B.8.2 & B.8.5 [ENCLOSURE]

B.8.6 [DEMOLITION]

B.8.7 [GLOVEBAG] **Pipe insulation**

B.8.8 [ASP. ROOFING]

C. Are you requesting any waivers to the above selected B.8 procedure for any of the abatement activities in this area?

☒ Yes ☐ No **Pre-abatement air sampling**

If yes, attach a detailed description of the waivers requested you are proposing to utilize.

All items must be keyed to the specific section(s) of the regulations for which waivers are requested.

D. Are you proposing alternative procedures under B.11 for any of the abatement activities in this area?

☒ Yes ☐ No **See Attachment 4**

If yes, attach a detailed description of the alternate procedures requested you are proposing to utilize. Alternate procedures must include a justification for not following specific

section(s) of the regulations and be as protective of public health.

E. Will any RACM remain in this area after abatement?

☐ Yes ☐ No ☒ Beyond scope of inspection

If Yes, attach a description of the RACM that will remain and the details of the on-going Operations and Maintenance Plan that will be implemented in accordance with C.1.2(b).

AGENCY USE ONLY

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Health

Office of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

SUPPLEMENTAL INFORMATION: AREA DESCRIPTION AND PROPOSED REMEDY

BUILDING LOCATION: **483 Weeden Street, Pawtucket, RI – Building 130-140**

INSTRUCTIONS: All items on this form must be addressed. All references to attachments must be clearly identified. All attachments must be marked with the specific item numbers on this form to which they pertain.

5. Area Location/Identification (Room Name/No., Evaluation Number, etc.):

Area 2 – Mechanical Room/Boiler Room

6. Attach a description of each type (e.g. pipe, ceiling, etc.) of regulated asbestos containing material (RACM) in this area, including condition, location, quantity and asbestos content. Attach a copy of the laboratory report(s) for all samples. (NOTE: All laboratory reports must include the name of the building(s) and the location(s) of the sample(s).

Refer to Attachment #2

7. Attach a current scale drawing of this area, showing direction of North and East, which has been clearly annotated to show the type, location and quantity of all RACM in this area. This drawing must include a legend which acts as a guide to the scale, symbols and nomenclature used in the drawing. If a master plan or multiple drawings are provided, indicate the specific location(s) and drawing number(s) which depict this area. The location of the decontamination chamber must also be so indicated on the appropriate drawing(s).

Refer to Attached Building Drawing

8. PROPOSED REMEDIES:

F. Attach a description of the interim Operations and Maintenance Plan that will be implemented in accordance with C.1.2 (b).

Refer to Attachment #3

(4) PROPOSED REMEDIES (cont.):

G. Will any portion of this area be abated by use of B.8 work procedures?

☒ Yes ☐ No

If Yes, indicate below which RACM in this area will be abated by use of the following B.8 work procedures:

B.8.2 & B.8.3 [REMOVAL]

B.8.2 & B.8.4 [ENCAPSULATION]

B.8.2 & B.8.5 [ENCLOSURE]

B.8.6 [DEMOLITION]

B.8.7 [GLOVEBAG] **Pipe insulation**

B.8.8 [ASP. ROOFING]

H. Are you requesting any waivers to the above selected B.8 procedure for any of the abatement activities in this area?

☒ Yes ☐ No **Pre-abatement air sampling**

If yes, attach a detailed description of the waivers requested you are proposing to utilize.

All items must be keyed to the specific section(s) of the regulations for which waivers are requested.

I. Are you proposing alternative procedures under B.11 for any of the abatement activities in this area?

☐ Yes ☒ No

If yes, attach a detailed description of the alternate procedures requested you are proposing to utilize. Alternate procedures must include a justification for not following specific

section(s) of the regulations and be as protective of public health.

J. Will any RACM remain in this area after abatement?

☐ Yes ☐ No ☒ Beyond scope of inspection

If Yes, attach a description of the RACM that will remain and the details of the on-going Operations and Maintenance Plan that will be implemented in accordance with C.1.2(b).

AGENCY USE ONLY

ATTACHMENT #1

In Process and Clearance Air Sampling

- A. If requested by the building owner, ECM will be on site for part time monitoring and will collect one compliance air sample outside the containment area daily for the duration of asbestos removal operations inside this building. The sample will be collected outside the decontamination unit.
- B. Any deviation in proper procedures on the part of the contractor shall be reported to the building owner. This includes inadequate paperwork on site, disagreement and/or any deviation from previously outlined work procedures, or if compliance samples in the work area vicinity exceed 0.01 f/cc. The contractor's work shall then be stopped, without repercussion to the building owner or the project-monitoring firm until any conflicts and/or problems have been resolved.
- C. After the interior areas have passed the consultant's visual inspection, he or his authorized representative will collect the following air samples and the corresponding required blanks:
 - Area 1 – A minimum of 4 PCM clearance air samples will be collected from the crawlspace.**
 - Area 2 – A minimum of 2 PCM clearance air samples will be collected from the mechanical/boiler room.**
- D. If clearance monitoring after clean-up results in fiber concentrations in excess of the RI rules and regulation clearance air requirements, the project area shall be wet-cleaned, misted with water, and encapsulated with a liquid encapsulant. A period of no less than 24 hours shall elapse before the next set of clearance air samples can be collected. The sampling process shall be repeated until a satisfactory clearance air level is attained.

The asbestos contractor is held responsible for any costs associated with the re-cleaning and re-sampling of an area should clearance air samples exceed 0.01 f/cc.

ATTACHMENT #2

ASB-16A-2

POSITIVE ASBESTOS CONTAINING MATERIALS:

There is approximately 600lf of asbestos containing pipe insulation located within the crawlspace and boiler room of building 130-140.

Visible pipe insulation debris was observed on the dirt floor within the crawlspace.

It is the contractor's responsibility to verify all quantities.

ATTACHMENT #2

(Continued)

1. Bulk Sample Results



Analysis Report
prepared for
Environmental Consulting & Management Inc

Report Date: 4/11/2022

Project Name: Galego Court - Crawlspace

Project #: 220155

SanAir ID#: 22016284



NVLAP LAB CODE 200870-0

10501 Trade Court | North Chesterfield, Virginia 23236
888.895.1177 | 804.897.1177 | fax: 804.897.0070 | IAQ@SanAir.com | SanAir.com



SanAir ID Number

22016284

FINAL REPORT

4/11/2022 10:17:12 AM

Name: Environmental Consulting & Management Inc
Address: 50 Kickemuit Ave
Bristol, RI 02809
Phone: 401-438-1360

Project Number: 220155

P.O. Number:

Project Name: Galego Court - Crawlspace

Collected Date: 4/1/2022

Received Date: 4/4/2022 10:15:00 AM

Dear Joseph M. Lepore,

We at SanAir would like to thank you for the work you recently submitted. The 17 sample(s) were received on Monday, April 04, 2022 via UPS. The final report(s) is enclosed for the following sample(s): 1A, 2A, 3A, 3B, 4A, 4B, 5A, 6A, 7A, 8A, 8B, 9A, 9B, 9C, 10A, 10B, 11A.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

A handwritten signature in black ink that reads "Sandra Sobrino". The signature is written in a cursive, flowing style.

Sandra Sobrino
Asbestos & Materials Laboratory Manager
SanAir Technologies Laboratory

Final Report Includes:

- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

Sample conditions:

- 17 samples in Good condition.



SanAir ID Number
22016284
FINAL REPORT
4/11/2022 10:17:12 AM

Name: Environmental Consulting & Management Inc
Address: 50 Kickemuit Ave
Bristol, RI 02809
Phone: 401-438-1360

Project Number: 220155
P.O. Number:
Project Name: Galego Court - Crawlspace
Collected Date: 4/1/2022
Received Date: 4/4/2022 10:15:00 AM

Analyst: Moore, Brandi

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
1A / 22016284-001 Insulation Bldg 10 Crawlspace	White Non-Fibrous Homogeneous		80% Other	15% Chrysotile 5% Amosite
2A / 22016284-002 Insulation Debris Bld 10 Crawlspace	White Non-Fibrous Homogeneous	10% Cellulose	70% Other	15% Chrysotile 5% Amosite
3A / 22016284-003 Insulation On Steam Line Bldg 20	White Non-Fibrous Heterogeneous	5% Cellulose	82% Other	10% Amosite 3% Chrysotile
3B / 22016284-004 Insulation On Steam Line Bldg 20	White Non-Fibrous Heterogeneous	5% Cellulose	80% Other	10% Amosite 5% Chrysotile
4A / 22016284-005 Insulation On Steam Line Bldg 40	White Non-Fibrous Heterogeneous		85% Other	10% Amosite 5% Chrysotile
4B / 22016284-006 Insulation On Steam Line Bldg 40	White Non-Fibrous Homogeneous		84% Other	8% Amosite 8% Chrysotile
5A / 22016284-007 Insulation Debris Bldg 50	Grey Fibrous Homogeneous	15% Cellulose	63% Other	15% Amosite 7% Chrysotile
6A / 22016284-008 Insulation Debris Bldg 30	Grey Fibrous Homogeneous		40% Other	60% Chrysotile
7A / 22016284-009 Steam Line Bldg 50	White Non-Fibrous Homogeneous		70% Other	20% Chrysotile 10% Amosite
8A / 22016284-010 Debris - Bldg 100 Crawlspace	Grey Fibrous Homogeneous		40% Other	60% Chrysotile

Analyst: *Brandi Moore*

Approved Signatory: *Jonathan Wilson*

Analysis Date: 4/11/2022

Date: 4/11/2022



SanAir ID Number

22016284

FINAL REPORT

4/11/2022 10:17:12 AM

Name: Environmental Consulting & Management Inc
Address: 50 Kickemuit Ave
Bristol, RI 02809
Phone: 401-438-1360

Project Number: 220155**P.O. Number:****Project Name:** Galego Court - Crawlspace**Collected Date:** 4/1/2022**Received Date:** 4/4/2022 10:15:00 AM

Analyst: Moore, Brandi

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
8B / 22016284-011 Debris - Bldg 100 Crawlspace	White Non-Fibrous Heterogeneous		80% Other	10% Chrysotile 10% Amosite
9A / 22016284-012 Insulation In Above Ground Boiler Rooms Wood Bldgs, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
9A / 22016284-012 Insulation In Above Ground Boiler Rooms Wood Bldgs, Wrap	White Non-Fibrous Heterogeneous	30% Cellulose 15% Glass	55% Other	None Detected
9B / 22016284-013 Insulation Wood Bldg Boiler Rooms, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
9B / 22016284-013 Insulation Wood Bldg Boiler Rooms, Wrap	White Non-Fibrous Heterogeneous	30% Cellulose	70% Other	None Detected
9C / 22016284-014 Insulation Wood Bldg Boiler Rooms, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
9C / 22016284-014 Insulation Wood Bldg Boiler Rooms, Wrap	White Non-Fibrous Heterogeneous	30% Cellulose 15% Glass	55% Other	None Detected
10A / 22016284-015 Breaching On New Furnaces - Bldg 30, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
10A / 22016284-015 Breaching On New Furnaces - Bldg 30, Wrap	White Fibrous Heterogeneous	85% Glass	15% Other	None Detected
10B / 22016284-016 Breaching On New Furnaces - Bldg 30, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected

Analyst: *Brandi Moore*Approved Signatory: *Jonathan Wilson*

Analysis Date: 4/11/2022

Date: 4/11/2022



SanAir ID Number

22016284

FINAL REPORT

4/11/2022 10:17:12 AM

Name: Environmental Consulting & Management Inc
Address: 50 Kickemuit Ave
Bristol, RI 02809
Phone: 401-438-1360

Project Number: 220155
P.O. Number:
Project Name: Galego Court - Crawlspace
Collected Date: 4/1/2022
Received Date: 4/4/2022 10:15:00 AM

Analyst: Moore, Brandi

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
10B / 22016284-016 Breaching On New Furnaces - Bldg 30, Wrap	White Fibrous Heterogeneous	85% Glass	15% Other	None Detected
11A / 22016284-017 Wallboard Bldg 20 Boiler Room, Wallboard	Grey Non-Fibrous Homogeneous	5% Cellulose	95% Other	None Detected
11A / 22016284-017 Wallboard Bldg 20 Boiler Room, Joint Compound	White Non-Fibrous Homogeneous		100% Other	None Detected

Analyst:

Brandi Moore

Approved Signatory:

Johnathan Wilson

Analysis Date: 4/11/2022

Date: 4/11/2022

Disclaimer

This report is the sole property of the client named on the SanAir Technologies Laboratory chain-of-custody (COC). Results in the report are confidential information intended only for the use by the customer listed on the COC. Neither results nor reports will be discussed with or released to any third party without our client's written permission. The final report shall not be reproduced except in full without written approval of the laboratory to assure that parts of the report are not taken out of context. The information provided in this report applies only to the samples submitted and is relevant only for the date, time, and location of sampling. The accuracy of the results is dependent upon the client's sampling procedure and information provided to the laboratory by the client. SanAir assumes no responsibility for the sampling procedure and will provide evaluation reports based solely on the sample(s) in the condition in which they arrived at the laboratory and information provided by the client on the COC, such as: project number, project name, collection dates, po number, special instructions, samples collected by, sample numbers, sample identifications, sample type, selected analysis type, flow rate, total volume or area, and start stop times that may affect the validity of the results in this report. Samples were received in good condition unless otherwise noted on the report. SanAir assumes no responsibility or liability for the manner in which the results are used or interpreted. This report does not constitute and shall not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any other U.S. governmental agencies and may not be certified by every local, state, and federal regulatory agencies.

Samples are held for a period of 60 days. Fibers smaller than 5 microns cannot be seen with this method due to scope limitations.

For NY state samples, method EPA 600/M4-82-020 is performed.

NYELAP Disclaimer:

Polarized- light microscopy is not consistently reliable in detecting asbestos in floor covering and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

Asbestos Certifications

NVLAP lab code 200870-0

City of Philadelphia: ALL-460

PA Department of Environmental Protection Number: 68-05397

California License Number: 2915

Colorado License Number: AL-23143

Connecticut License Number: PH-0105

Massachusetts License Number: AA000222

Maine License Number: LB-0075, LA-0084

New York ELAP lab ID: 11983

Rhode Island License Number: PCM00126, PLM00126, TEM00126

Texas Department of State Health Services License Number: 300440

Commonwealth of Virginia 3333000323

Washington State License Number: C989

West Virginia License Number: LT000616

Vermont License: AL166318

Louisiana Department of Environmental Quality: 212253, Cert 05088

Revision Date: 8/14/2020



10501 Trade Ct., Suite 100
N. Chesterfield, VA 23236
804.897.1177 / 888.895.1177
Fax 804.897.0070
sanair.com

Asbestos
Chain of Custody
Form 140, Rev 6, 1/26/2022

SanAir ID Number

22016284

Company: Environmental Consulting & Management Inc	Project #: 220155	Collected by: Joe Lepore
Address: 50 Kickemuit Ave	Project Name: Galego Court - Crawlspace	Phone #: 401-438-1380
City, St., Zip: Bristol, RI 02809	Date Collected: 4/1/2022	Fax #: 401-438-1316
State of Collection: RI Account#: 2667	P.O. Number:	Email: JLepore@ECMNE.com

Bulk			Air			Soil		
ABB	PLM EPA 600/R-93/116	<input checked="" type="checkbox"/>	ABA	PCM NIOSH 7400	<input type="checkbox"/>	ABSE	PLM EPA 600/R-93/116 (Qual.)	<input type="checkbox"/>
	Positive Stop	<input type="checkbox"/>	ABA-2	OSHA w/ TWA*	<input type="checkbox"/>	Soil		
ABEPA	PLM EPA 400 Point Count	<input type="checkbox"/>	ABTEM	TEM AHERA	<input type="checkbox"/>	ABSP	PLM CARB 435 (LOD <1%)	<input type="checkbox"/>
ABB1K	PLM EPA 1000 Point Count	<input type="checkbox"/>	ABATN	TEM NIOSH 7402	<input type="checkbox"/>	ABSP1	PLM CARB 435 (LOD 0.25%)	<input type="checkbox"/>
ABBN	PLM EPA NOB**	<input type="checkbox"/>	ABT2	TEM Level II	<input type="checkbox"/>	ABSP2	PLM CARB 435 (LOD 0.1%)	<input type="checkbox"/>
ABBCH	TEM Chatfield**	<input type="checkbox"/>	Other:		<input type="checkbox"/>	Dust		
ABBTM	TEM EPA NOB**	<input type="checkbox"/>	New York ELAP			ABWA	TEM Wipe ASTM D-6480	<input type="checkbox"/>
ABQ	PLM Qualitative	<input type="checkbox"/>	ABEPA2	NY ELAP 198.1	<input type="checkbox"/>	ABDMV	TEM Microvac ASTM D-5755	<input type="checkbox"/>
			ABENY	NY ELAP 198.6 PLM NOB	<input type="checkbox"/>			
			ABBNY	NY ELAP 198.4 TEM NOB	<input type="checkbox"/>			
Water						Matrix Other		
ABHE	EPA 100.2	<input type="checkbox"/>				<input type="checkbox"/>		

** Available on 24-hr. to 5-day TAT

Turn Around Times	3 HR (4 HR TEM) <input type="checkbox"/>	6 HR (8HR TEM) <input type="checkbox"/>	12 HR <input type="checkbox"/>	1 Day <input type="checkbox"/>
	<input type="checkbox"/> 2 Days	<input type="checkbox"/> 3 Days	<input checked="" type="checkbox"/> 4 Days	<input type="checkbox"/> 5 Days

Special Instructions

Sample #	Sample Identification/Location	Volume or Area	Sample Date	Flow Rate*	Start - Stop Time*
1A	Insulation Bldg 10 Crawlspace				
2A	Insulation Debris Bldg 10 Crawlspace				
3A	Insulation on Steam line Bldg 20				
3B	" "				
4A	Insulation on Steam line Bldg 40				
4B	" "				
5A	Insulation Debris Bldg 50				
6A	Insulation Debris Bldg 30				
7A	Steam Line Bldg 50				
8A	Debris - Bldg 100 Crawlspace				
8B	" "				
9A	Insulation in above Ground Boiler Rooms Wood Bldgs				

Relinquished by	Date	Time	Received by	Date	Time
	4/1/2022		ZAO	4/4/22	10:52

If no technician is provided, then the primary contact for your account will be selected. Unless scheduled, the turnaround time for all samples received after 3 pm EST will be logged in the next business day. Weekend or holiday work must be scheduled ahead of time and is charged at 150% of the 3hr TAT or a minimum charge of \$150. A courier charge will be applied for same day and one-day turnaround times for offsite work. SanAir covers Ground and Next Day Air shipping. Shipments billed to SanAir with a faster shipping rate will result in additional charges.

[illegible]

Special Instructions	
-----------------------------	--

Relinquished by	Date	Time	Received by	Date	Time
<i>[Signature]</i>	4/1/2022		<i>[Signature]</i>	4/1/22	10:15

ATTACHMENT #3

Interim Operations & Maintenance Plan

The contractors associated with Galego Court are aware of the presence and location of ACM within the above stated areas. They have been instructed not to disturb the material due to the potential health hazards if fibers become airborne.

1. Notification

All building occupants, also any contractors entering the building and/or premises to perform work, shall be notified of the presence and location of asbestos-containing material(s) and cautioned regarding disturbance of the material(s). Also, the building occupants must be notified regarding the occurrence of asbestos abatement activities. If an emergency fiber release occurs, the following procedures shall be initiated.

2. Fiber Release Episodes

A. Minor Release Episode

If a minor fiber release episode occurs (release of less than 10 linear feet or 25 square feet of material), trained maintenance staff may perform the cleaning. Access to the area shall be restricted during clean-up. All debris shall be thoroughly wetted using amended water and placed in labeled, double six-mil polyethylene bags. The area shall then be cleaned using HEPA filtered vacuums and/or wet cleaning methods. Damaged material must be cleaned and repaired with non-asbestos-containing material. The area shall then be evaluated to decide if further action is necessary.

B. Major Release Episode

If a major fiber release episode occurs (falling or dislodging of more than 10 linear feet or 25 square feet of ACM), the cleaning must be carried out and directed by persons accredited to conduct and design response actions. After such an episode, the area shall be immediately restricted and entry to the area prevented. Warning signs shall be posted to caution people other than those qualified to deal with the problem. Air handling units in the area shall be shut down to prevent the spread of fibers beyond the problem area. A response action shall be designed and carried out by qualified personnel.

3. Training

Any employee who, because of their work, may disturb asbestos-containing material shall be trained and certified as a Competent Person as described by the RI Rules and Regulations for Asbestos Control. The program coordinator shall ensure that the procedures described above to protect the building occupants shall be followed for any operations and maintenance activities disturbing or involving ACM.

ATTACHMENT #4

Scope of Work / Description of Waivers

All proper OSHA, federal, state, and local safety regulations shall be followed.

Request of Waivers:

PHA and ECM are requesting a waiver of pre-abatement air samples for the crawlspace. The area is not meant for long term human occupancy. Due to dirt floor and miscellaneous debris within the space obtaining readable samples is not possible. All individuals entering the crawlspace prior to abatement must wear at a minimum half face respirator with HEPA filters and disposable coveralls.

Area 1:

B.11 (1.16 New Regulations) Alternate Procedures for removal of debris:

All doors, windows, floor drains, vents and other openings to the outside of the building and to areas within the building that do not contain asbestos materials shall be sealed off with 6-mil polyethylene sheeting and waterproof tape.

Negative pressure ventilation units with HEPA filtration shall be operated continuously from the time of barrier construction through the time acceptable final clearance air monitoring results are obtained. These units shall exhaust filtered air to the outside of the building. Filtered air shall not be exhausted to uncontaminated interior spaces.

Once the space is under negative pressure ventilation with all critical barriers installed, debris on floor within the crawlspace must be removed as asbestos containing material (ACM).

B.8.7 (1.14.7 New Regulations) - Glovebag Procedures:

After debris has been removed from the space the contractor shall install floor and wall sheeting.

Floors shall consist of at least one (1) layer of 6-mil polyethylene sheeting.

Wall sheeting shall consist of at least one (1) layer of 4-mil polyethylene sheeting.

Pipe insulation will be abated utilizing B.8.7 work procedures.

Manufacturer's instructions concerning preparation, sealing, utilization and removal of glovebags must be followed unless the abatement plan and/or these regulations specify more restrictive requirements.

A three chamber worker decontamination enclosure system, in accordance with 29 CFR 1926.58(j), must be available immediately adjacent to the abatement area.

Area 2:

All pipe insulation located in the Mechanical Room/Boiler Room will be abated utilizing B.8.7 Glovebag Procedures.

Buildings; 30-40, 50-60, 80-90, 100-110, 130-140
150-160, 190-200, 210-220

Buildings; 30-40, 50-60, 80-90, 100-110, 130-140
150-160, 190-200, 210-220

Asbestos Abatement Plan

Pawtucket Housing Authority Galego Court Building 150-160

Prepared for:

**ESM
1005 Main Street
Pawtucket, RI 02860**

Prepared by:



June 2022

RHODE ISLAND DEPARTMENT OF HEALTH

NOTARIZED CERTIFICATION OF ASBESTOS AMENDED ABATEMENT PLAN

Facility: **Galego Court – Building 150-160**

Address: **483 Weeden Street**

City/Town: **Pawtucket**

Zip: **02860**

Amendment Phase No:

Abatement Plan Written By: **Joseph M. Lepore**

Certification No: **APD00661**

Summary of specific waivers/variances being requested: **Pre-abatement air samples**

Type of Asbestos Abatement ☒ Removal ☐ Enclosure ☐ Encapsulation
☐ Demolition ☒ Glovebag ☐ Asphalt Roofing
☐ Other (specify) _____

Is this plan being submitted in response to a Notice of Violation and/or a Notice of Requirement to Submit an Asbestos Abatement Plan? ☐ Yes ☒ No

If yes, Indicate Notice/Building Evaluation No(s):

Contractor: **To be determined**

License No:

Estimated Starting Date: **07/20/2022**

Pre-Abatement Sampling Information

Bulk Samples Collected By: **Joseph M. Lepore**

Certification No: **AI00661**

Bulk Samples Analyzed By: **San Air Labs.**

Certification No: **PLM00126**

Air Samples Analyzed By: **NA**

Certification No: **NA**

Clearance Air Sampling Information

Air Samples to be Collected By: **ECM Inc. Personal**

Air Samples to be Analyzed By: **ECM Inc.**

Certification No: **PCM00131**

CERTIFICATION

I certify that: this asbestos abatement plan is prepared and submitted under the provisions of Section 23-24.5-6 of the RI Asbestos Control Act and Parts A and C of the RI Rules and Regulations for Asbestos Control; all abatement/management activities performed in conjunction with this plan must be in compliance with the specifications prescribed in this plan (when approved) and the most current revision of all applicable federal and state regulations; and the asbestos abatement/management activities described in this plan must be performed by a RI licensed asbestos abatement contractor.

Certified by: *David McFore* Title: *Executive Director*
JESSICA A. LIPIANO (Typed Name of Owner or Agent)
NOTARY PUBLIC Date: *7/13/22*
STATE OF RHODE ISLAND (Typed Name of Notary)
Subscribed and sworn before me this *13* day of *July*, 20 *22*
My Commission Expires: *2/19/2024*

(Notary Public)

AFFIX NOTARY SEAL HERE

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
Department of Health
Office of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

1. Building Owner's Name:

Pawtucket Housing Authority

2. Application Prepared By:

Joseph M. Lepore

RI certification No: **AAC-0661**

Telephone No: **401-304-6614**

3. Building Owner's Mailing Address and Telephone Number:

Street: **214 Roosevelt Ave**

City/Town: **Pawtucket**

Zip: **02860**

Telephone No.: **401-721-6000**

(Area Code, No., Ext.)

4. Person to be contacted regarding this application:

Name: **Nicholas Toth**

Telephone No: **401-721-6044**

(Area Code, No., Ext.)

5. Location where abatement work will be performed:

Name (if applicable): **Building 150-160 Crawlspace and Mechanical Room**

Street: **483 Weeden Street**

City/Town: **Pawtucket**

Zip: **02860**

6. Is this application being submitted in response to a "Notice of Requirement to Submit an Asbestos Abatement plan"? () Yes (X) No

If Yes, what is the due date for submittal of Abatement plan? _____
(Mo.) (Day) (Yr.)

Evaluation Number on the Notice: _____

7. Contractor who will be performing abatement work (if selected):

Name: **To be determined**

R.I. License No.:

8. Estimated Starting Date of Abatement Work

07
(Month)

20
(Day)

2022
(Year)

9. Estimated Completion Date of Abatement Work:

12
(Month)

31
(Day)

2022
(Year)

10. Type of Asbestos Abatement:

(Check all that apply)

☒ Removal

☐ Enclosure

☐ Encapsulation

☐ Demolition

☐ Operations and Maintenance Only

☐ Asphalt Roofing

11. Type of Building:

☐ School

☐ Privately Owned Building

☒ Publicly Owned Building

☐ Residence

☐ Other (Specify) _____

12. Building Access:

☐ Public Access (\geq 25% of Building Area)

☒ Limited Public Access ($<$ 25% of Building Area)

☐ No Public Access

13. Bulk Sample Collection and Analysis:

A. Person collecting bulk samples:

Name: **Joseph M. Lepore**

RI Certification No.: **AI00661**

B. Sampling Methodology:

☐ EPA AHERA Sampling requirements [40 CFR 763.86].

☒ EPA's Asbestos Containing Material in School Buildings: A Guidance Document (EPA-405/2-78-014) or Guidance for Controlling Asbestos Containing Materials – 1985 Edition (EPA-560-5-85-024)

☐ Other (Specify) _____

C. Laboratory performing the analysis of the bulk samples

Name: **San Air Labs**

RI Certification No.: **PLM00126**

D. Analytical Methodology:

☒ EPA Interim Method for the Determination of Asbestos in Bulk Insulation Samples [PLM method only].

☐ Other (Specify) _____

14. Pre-Abatement Air Sample Collection and Analysis:

A. Person collecting pre-abatement air samples:

Name: **NA**

Affiliation: **NA**

B. Laboratory performing analysis of pre-abatement air samples.

Name: **NA**

RI Certification No.: **NA**

C. Methodology used in the collection and analysis of pre-abatement samples:

☒ NIOSH Method 7400 [Most Current Revision]

☐ OSHA 29 CFR 1926.1101 – Appendix A & B

☐ Other (Specify)

15. A. Indicate how the regulated asbestos containing material (RACM) will be removed from the abatement site. If a hauler or broker will be used to transport the RACM to a disposal site, they must also be identified.

To be determined _____

- B. Provide the name and location of the authorized asbestos waste facility to which the removed material will be transferred for disposal (if known).

To be determined _____

16. Person designated as compliance monitor for abatement work. **[NOT REQUIRED]**

Name: **ECM Inc. Personnel**

Affiliation: **Environmental Consulting and Management Inc. (ECM Inc.)**

1. In-Process & Clearance Air Sampling: **See Attachment #1**
 - A. Describe on an attachment the type, number and location of air samples that will be collected outside the work area during the abatement project.
 - B. Describe on an attachment the plan of action to be followed if the Indoor Non-Occupational Air Exposure Standard for Asbestos (0.01 fibers per cubic centimeter) is exceeded outside the work area during the abatement project.
 - C. Describe on an attachment the type, number and location of air samples that will be collected as part of the final clearance testing.
 - D. Describe on an attachment the plan of action to be followed if the Indoor Non-Occupational Air Exposure Standard for Asbestos (0.01 fiber per cubic centimeter) is exceed during final clearance testing.
-

2. A separate and fully completed Form ASB-16A must be submitted for each area to be abated. List below the entry in Item 1 from each attached ASB-16A.

Area 1 –Crawlspace

Area 2- Mechanical Room/Boiler Room

3. I certify that this plan was prepared by me and I am responsible for its content.

Signature:  Date 06 16 2022
(Month) (Day) (Year)
Affiliation: **Environmental Consulting and Management, Inc**

4. ASBESTOS ABATEMENT PLAN APPLICATION FEE:

- | | |
|--|--------|
| <input type="checkbox"/> Operation & Maintenance Only | \$ 75 |
| <input type="checkbox"/> Up to One (1) NESHAP Unit | \$ 75 |
| <input type="checkbox"/> Between One (1) & Ten (10) NESHAP Units | \$ 300 |
| <input type="checkbox"/> Between Ten (10) & Fifty (50) NESHAP Units | \$ 600 |
| <input type="checkbox"/> Over Fifty (50) NESHAP Units | \$ 900 |
| <input checked="" type="checkbox"/> RI State Agency Waived Application Fee | |

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Health

Office of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

SUPPLEMENTAL INFORMATION: AREA DESCRIPTION AND PROPOSED REMEDY

BUILDING LOCATION: 483 Weeden Street, Pawtucket, RI – Building 150-160

INSTRUCTIONS: All items on this form must be addressed. All references to attachments must be clearly identified. All attachments must be marked with the specific item numbers on this form to which they pertain.

1. Area Location/Identification (Room Name/No., Evaluation Number, etc.):

Area 1 – Crawlspace

2. Attach a description of each type (e.g. pipe, ceiling, etc.) of regulated asbestos containing material (RACM) in this area, including condition, location, quantity and asbestos content. Attach a copy of the laboratory report(s) for all samples. (NOTE: All laboratory reports must include the name of the building(s) and the location(s) of the sample(s).

Refer to Attachment #2

3. Attach a current scale drawing of this area, showing direction of North and East, which has been clearly annotated to show the type, location and quantity of all RACM in this area. This drawing must include a legend which acts as a guide to the scale, symbols and nomenclature used in the drawing. If a master plan or multiple drawings are provided, indicate the specific location(s) and drawing number(s) which depict this area. The location of the decontamination chamber must also be so indicated on the appropriate drawing(s).

Refer to Attached Building Drawing

4. PROPOSED REMEDIES:

- A. Attach a description of the interim Operations and Maintenance Plan that will be implemented in accordance with C.1.2 (b).

Refer to Attachment #3

(4) PROPOSED REMEDIES (cont.):

B. Will any portion of this area be abated by use of B.8 work procedures?

☒ Yes ☐ No

If Yes, indicate below which RACM in this area will be abated by use of the following B.8 work procedures:

B.8.2 & B.8.3 [REMOVAL]

B.8.2 & B.8.4 [ENCAPSULATION]

B.8.2 & B.8.5 [ENCLOSURE]

B.8.6 [DEMOLITION]

B.8.7 [GLOVEBAG] **Pipe insulation**

B.8.8 [ASP. ROOFING]

C. Are you requesting any waivers to the above selected B.8 procedure for any of the abatement activities in this area?

☒ Yes ☐ No **Pre-abatement air sampling**

If yes, attach a detailed description of the waivers requested you are proposing to utilize.

All items must be keyed to the specific section(s) of the regulations for which waivers are requested.

D. Are you proposing alternative procedures under B.11 for any of the abatement activities in this area?

☒ Yes ☐ No **See Attachment 4**

If yes, attach a detailed description of the alternate procedures requested you are proposing to utilize. Alternate procedures must include a justification for not following specific

section(s) of the regulations and be as protective of public health.

E. Will any RACM remain in this area after abatement?

☐ Yes ☐ No ☒ Beyond scope of inspection

If Yes, attach a description of the RACM that will remain and the details of the on-going Operations and Maintenance Plan that will be implemented in accordance with C.1.2(b).

AGENCY USE ONLY

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Health

Office of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

SUPPLEMENTAL INFORMATION: AREA DESCRIPTION AND PROPOSED REMEDY

BUILDING LOCATION: **483 Weeden Street, Pawtucket, RI – Building 150-160**

INSTRUCTIONS: All items on this form must be addressed. All references to attachments must be clearly identified. All attachments must be marked with the specific item numbers on this form to which they pertain.

5. Area Location/Identification (Room Name/No., Evaluation Number, etc.):

Area 2 – Mechanical Room/Boiler Room

6. Attach a description of each type (e.g. pipe, ceiling, etc.) of regulated asbestos containing material (RACM) in this area, including condition, location, quantity and asbestos content. Attach a copy of the laboratory report(s) for all samples. (NOTE: All laboratory reports must include the name of the building(s) and the location(s) of the sample(s).

Refer to Attachment #2

7. Attach a current scale drawing of this area, showing direction of North and East, which has been clearly annotated to show the type, location and quantity of all RACM in this area. This drawing must include a legend which acts as a guide to the scale, symbols and nomenclature used in the drawing. If a master plan or multiple drawings are provided, indicate the specific location(s) and drawing number(s) which depict this area. The location of the decontamination chamber must also be so indicated on the appropriate drawing(s).

Refer to Attached Building Drawing

8. PROPOSED REMEDIES:

F. Attach a description of the interim Operations and Maintenance Plan that will be implemented in accordance with C.1.2 (b).

Refer to Attachment #3

(4) PROPOSED REMEDIES (cont.):

G. Will any portion of this area be abated by use of B.8 work procedures?

☒ Yes ☐ No

If Yes, indicate below which RACM in this area will be abated by use of the following B.8 work procedures:

B.8.2 & B.8.3	[REMOVAL]	
B.8.2 & B.8.4	[ENCAPSULATION]	
B.8.2 & B.8.5	[ENCLOSURE]	
B.8.6	[DEMOLITION]	
B.8.7	[GLOVEBAG]	Pipe insulation
B.8.8	[ASP. ROOFING]	

H. Are you requesting any waivers to the above selected B.8 procedure for any of the abatement activities in this area?

☒ Yes ☐ No **Pre-abatement air sampling**

If yes, attach a detailed description of the waivers requested you are proposing to utilize. All items must be keyed to the specific section(s) of the regulations for which waivers are requested.

I. Are you proposing alternative procedures under B.11 for any of the abatement activities in this area?

☐ Yes ☒ No

If yes, attach a detailed description of the alternate procedures requested you are proposing to utilize. Alternate procedures must include a justification for not following specific section(s) of the regulations and be as protective of public health.

J. Will any RACM remain in this area after abatement?

☐ Yes ☐ No ☒ Beyond scope of inspection

If Yes, attach a description of the RACM that will remain and the details of the on-going Operations and Maintenance Plan that will be implemented in accordance with C.1.2(b).

AGENCY USE ONLY

ATTACHMENT #1

In Process and Clearance Air Sampling

- A. If requested by the building owner, ECM will be on site for part time monitoring and will collect one compliance air sample outside the containment area daily for the duration of asbestos removal operations inside this building. The sample will be collected outside the decontamination unit.
- B. Any deviation in proper procedures on the part of the contractor shall be reported to the building owner. This includes inadequate paperwork on site, disagreement and/or any deviation from previously outlined work procedures, or if compliance samples in the work area vicinity exceed 0.01 f/cc. The contractor's work shall then be stopped, without repercussion to the building owner or the project-monitoring firm until any conflicts and/or problems have been resolved.
- C. After the interior areas have passed the consultant's visual inspection, he or his authorized representative will collect the following air samples and the corresponding required blanks:
 - Area 1 – A minimum of 4 PCM clearance air samples will be collected from the crawlspace.**
 - Area 2 – A minimum of 2 PCM clearance air samples will be collected from the mechanical/boiler room.**
- D. If clearance monitoring after clean-up results in fiber concentrations in excess of the RI rules and regulation clearance air requirements, the project area shall be wet-cleaned, misted with water, and encapsulated with a liquid encapsulant. A period of no less than 24 hours shall elapse before the next set of clearance air samples can be collected. The sampling process shall be repeated until a satisfactory clearance air level is attained.

The asbestos contractor is held responsible for any costs associated with the re-cleaning and re-sampling of an area should clearance air samples exceed 0.01 f/cc.

ATTACHMENT #2

ASB-16A-2

POSITIVE ASBESTOS CONTAINING MATERIALS:

There is approximately 600lf of asbestos containing pipe insulation located within the crawlspace and boiler room of building 150-160.

Visible pipe insulation debris was observed on the dirt floor within the crawlspace.

It is the contractor's responsibility to verify all quantities.

ATTACHMENT #2

(Continued)

1. Bulk Sample Results



Analysis Report
prepared for
Environmental Consulting & Management Inc

Report Date: 4/11/2022

Project Name: Galego Court - Crawlspace

Project #: 220155

SanAir ID#: 22016284



NVLAP LAB CODE 200870-0

10501 Trade Court | North Chesterfield, Virginia 23236
888.895.1177 | 804.897.1177 | fax: 804.897.0070 | IAQ@SanAir.com | SanAir.com



SanAir ID Number

22016284

FINAL REPORT

4/11/2022 10:17:12 AM

Name: Environmental Consulting & Management Inc
Address: 50 Kickemuit Ave
Bristol, RI 02809
Phone: 401-438-1360

Project Number: 220155
P.O. Number:
Project Name: Galego Court - Crawlspace
Collected Date: 4/1/2022
Received Date: 4/4/2022 10:15:00 AM

Dear Joseph M. Lepore,

We at SanAir would like to thank you for the work you recently submitted. The 17 sample(s) were received on Monday, April 04, 2022 via UPS. The final report(s) is enclosed for the following sample(s): 1A, 2A, 3A, 3B, 4A, 4B, 5A, 6A, 7A, 8A, 8B, 9A, 9B, 9C, 10A, 10B, 11A.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

A handwritten signature in black ink that reads "Sandra Sobrino". The signature is written in a cursive, flowing style.

Sandra Sobrino
Asbestos & Materials Laboratory Manager
SanAir Technologies Laboratory

Final Report Includes:

- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

Sample conditions:

- 17 samples in Good condition.



SanAir ID Number
22016284
FINAL REPORT
4/11/2022 10:17:12 AM

Name: Environmental Consulting & Management Inc
Address: 50 Kickemuit Ave
Bristol, RI 02809
Phone: 401-438-1360

Project Number: 220155
P.O. Number:
Project Name: Galego Court - Crawlspace
Collected Date: 4/1/2022
Received Date: 4/4/2022 10:15:00 AM

Analyst: Moore, Brandi

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
1A / 22016284-001 Insulation Bldg 10 Crawlspace	White Non-Fibrous Homogeneous		80% Other	15% Chrysotile 5% Amosite
2A / 22016284-002 Insulation Debris Bld 10 Crawlspace	White Non-Fibrous Homogeneous	10% Cellulose	70% Other	15% Chrysotile 5% Amosite
3A / 22016284-003 Insulation On Steam Line Bldg 20	White Non-Fibrous Heterogeneous	5% Cellulose	82% Other	10% Amosite 3% Chrysotile
3B / 22016284-004 Insulation On Steam Line Bldg 20	White Non-Fibrous Heterogeneous	5% Cellulose	80% Other	10% Amosite 5% Chrysotile
4A / 22016284-005 Insulation On Steam Line Bldg 40	White Non-Fibrous Heterogeneous		85% Other	10% Amosite 5% Chrysotile
4B / 22016284-006 Insulation On Steam Line Bldg 40	White Non-Fibrous Homogeneous		84% Other	8% Amosite 8% Chrysotile
5A / 22016284-007 Insulation Debris Bldg 50	Grey Fibrous Homogeneous	15% Cellulose	63% Other	15% Amosite 7% Chrysotile
6A / 22016284-008 Insulation Debris Bldg 30	Grey Fibrous Homogeneous		40% Other	60% Chrysotile
7A / 22016284-009 Steam Line Bldg 50	White Non-Fibrous Homogeneous		70% Other	20% Chrysotile 10% Amosite
8A / 22016284-010 Debris - Bldg 100 Crawlspace	Grey Fibrous Homogeneous		40% Other	60% Chrysotile

Analyst: *Brandi Moore*

Approved Signatory: *Jonathan Wilson*

Analysis Date: 4/11/2022

Date: 4/11/2022



SanAir ID Number

22016284

FINAL REPORT

4/11/2022 10:17:12 AM

Name: Environmental Consulting & Management Inc
Address: 50 Kickemuit Ave
Bristol, RI 02809
Phone: 401-438-1360

Project Number: 220155**P.O. Number:****Project Name:** Galego Court - Crawlspace**Collected Date:** 4/1/2022**Received Date:** 4/4/2022 10:15:00 AM

Analyst: Moore, Brandi

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
8B / 22016284-011 Debris - Bldg 100 Crawlspace	White Non-Fibrous Heterogeneous		80% Other	10% Chrysotile 10% Amosite
9A / 22016284-012 Insulation In Above Ground Boiler Rooms Wood Bldgs, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
9A / 22016284-012 Insulation In Above Ground Boiler Rooms Wood Bldgs, Wrap	White Non-Fibrous Heterogeneous	30% Cellulose 15% Glass	55% Other	None Detected
9B / 22016284-013 Insulation Wood Bldg Boiler Rooms, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
9B / 22016284-013 Insulation Wood Bldg Boiler Rooms, Wrap	White Non-Fibrous Heterogeneous	30% Cellulose	70% Other	None Detected
9C / 22016284-014 Insulation Wood Bldg Boiler Rooms, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
9C / 22016284-014 Insulation Wood Bldg Boiler Rooms, Wrap	White Non-Fibrous Heterogeneous	30% Cellulose 15% Glass	55% Other	None Detected
10A / 22016284-015 Breaching On New Furnaces - Bldg 30, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
10A / 22016284-015 Breaching On New Furnaces - Bldg 30, Wrap	White Fibrous Heterogeneous	85% Glass	15% Other	None Detected
10B / 22016284-016 Breaching On New Furnaces - Bldg 30, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected

Analyst: *Brandi Moore*Approved Signatory: *Jonathan Wilson*

Analysis Date: 4/11/2022

Date: 4/11/2022



SanAir ID Number

22016284

FINAL REPORT

4/11/2022 10:17:12 AM

Name: Environmental Consulting & Management Inc
Address: 50 Kickemuit Ave
Bristol, RI 02809
Phone: 401-438-1360

Project Number: 220155
P.O. Number:
Project Name: Galego Court - Crawlspace
Collected Date: 4/1/2022
Received Date: 4/4/2022 10:15:00 AM

Analyst: Moore, Brandi

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
10B / 22016284-016 Breaching On New Furnaces - Bldg 30, Wrap	White Fibrous Heterogeneous	85% Glass	15% Other	None Detected
11A / 22016284-017 Wallboard Bldg 20 Boiler Room, Wallboard	Grey Non-Fibrous Homogeneous	5% Cellulose	95% Other	None Detected
11A / 22016284-017 Wallboard Bldg 20 Boiler Room, Joint Compound	White Non-Fibrous Homogeneous		100% Other	None Detected

Analyst:

Brandi Moore

Approved Signatory:

Johnathan Wilson

Analysis Date: 4/11/2022

Date: 4/11/2022

Disclaimer

This report is the sole property of the client named on the SanAir Technologies Laboratory chain-of-custody (COC). Results in the report are confidential information intended only for the use by the customer listed on the COC. Neither results nor reports will be discussed with or released to any third party without our client's written permission. The final report shall not be reproduced except in full without written approval of the laboratory to assure that parts of the report are not taken out of context. The information provided in this report applies only to the samples submitted and is relevant only for the date, time, and location of sampling. The accuracy of the results is dependent upon the client's sampling procedure and information provided to the laboratory by the client. SanAir assumes no responsibility for the sampling procedure and will provide evaluation reports based solely on the sample(s) in the condition in which they arrived at the laboratory and information provided by the client on the COC, such as: project number, project name, collection dates, po number, special instructions, samples collected by, sample numbers, sample identifications, sample type, selected analysis type, flow rate, total volume or area, and start stop times that may affect the validity of the results in this report. Samples were received in good condition unless otherwise noted on the report. SanAir assumes no responsibility or liability for the manner in which the results are used or interpreted. This report does not constitute and shall not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any other U.S. governmental agencies and may not be certified by every local, state, and federal regulatory agencies.

Samples are held for a period of 60 days. Fibers smaller than 5 microns cannot be seen with this method due to scope limitations.

For NY state samples, method EPA 600/M4-82-020 is performed.

NYELAP Disclaimer:

Polarized- light microscopy is not consistently reliable in detecting asbestos in floor covering and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

Asbestos Certifications

NVLAP lab code 200870-0

City of Philadelphia: ALL-460

PA Department of Environmental Protection Number: 68-05397

California License Number: 2915

Colorado License Number: AL-23143

Connecticut License Number: PH-0105

Massachusetts License Number: AA000222

Maine License Number: LB-0075, LA-0084

New York ELAP lab ID: 11983

Rhode Island License Number: PCM00126, PLM00126, TEM00126

Texas Department of State Health Services License Number: 300440

Commonwealth of Virginia 3333000323

Washington State License Number: C989

West Virginia License Number: LT000616

Vermont License: AL166318

Louisiana Department of Environmental Quality: 212253, Cert 05088

Revision Date: 8/14/2020



10501 Trade Ct., Suite 100
N. Chesterfield, VA 23236
804.897.1177 / 888.895.1177
Fax 804.897.0070
sanair.com

Asbestos
Chain of Custody
Form 140, Rev 6, 1/26/2022

SanAir ID Number

22016284

Company: Environmental Consulting & Management Inc		Project #: 220155	Collected by: Joe Lepore
Address: 50 Kickemuit Ave		Project Name: Galego Court - Crawlspace	Phone #: 401-438-1380
City, St., Zip: Bristol, RI 02809		Date Collected: 4/1/2022	Fax #: 401-438-1316
State of Collection: RI	Account#: 2667	P.O. Number:	Email: JLepore@ECMNE.com

Bulk		Air		Soil	
ABB	PLM EPA 600/R-93/116 <input checked="" type="checkbox"/>	ABA	PCM NIOSH 7400 <input type="checkbox"/>	ABSE	PLM EPA 600/R-93/116 (Qual.) <input type="checkbox"/>
	Positive Stop <input type="checkbox"/>	ABA-2	OSHA w/ TWA* <input type="checkbox"/>	Soil	
ABEPA	PLM EPA 400 Point Count <input type="checkbox"/>	ABTEM	TEM AHERA <input type="checkbox"/>	ABSP	PLM CARB 435 (LOD <1%) <input type="checkbox"/>
ABB1K	PLM EPA 1000 Point Count <input type="checkbox"/>	ABATN	TEM NIOSH 7402 <input type="checkbox"/>	ABSP1	PLM CARB 435 (LOD 0.25%) <input type="checkbox"/>
ABBN	PLM EPA NOB** <input type="checkbox"/>	ABT2	TEM Level II <input type="checkbox"/>	ABSP2	PLM CARB 435 (LOD 0.1%) <input type="checkbox"/>
ABBNCH	TEM Chatfield** <input type="checkbox"/>	Other:	<input type="checkbox"/>	Dust	
ABBTM	TEM EPA NOB** <input type="checkbox"/>	New York ELAP		ABWA	TEM Wipe ASTM D-6480 <input type="checkbox"/>
ABQ	PLM Qualitative <input type="checkbox"/>	ABEPA2	NY ELAP 198.1 <input type="checkbox"/>	ABDMV	TEM Microvac ASTM D-5755 <input type="checkbox"/>
		ABENY	NY ELAP 198.6 PLM NOB <input type="checkbox"/>		
		ABBNY	NY ELAP 198.4 TEM NOB <input type="checkbox"/>		
Water				Matrix	Other <input type="checkbox"/>
ABHE	EPA 100.2 <input type="checkbox"/>				

** Available on 24-hr. to 5-day TAT

Turn Around Times	3 HR (4 HR TEM) <input type="checkbox"/>	6 HR (8HR TEM) <input type="checkbox"/>	12 HR <input type="checkbox"/>	1 Day <input type="checkbox"/>
	<input type="checkbox"/> 2 Days	<input type="checkbox"/> 3 Days	<input checked="" type="checkbox"/> 4 Days	<input type="checkbox"/> 5 Days

Special Instructions

Sample #	Sample Identification/Location	Volume or Area	Sample Date	Flow Rate*	Start - Stop Time*
1A	Insulation Bldg 10 Crawlspace				
2A	Insulation Debris Bldg 10 Crawlspace				
3A	Insulation on Steam line Bldg 20				
3B	" "				
4A	Insulation on Steam line Bldg 40				
4B	" "				
5A	Insulation Debris Bldg 50				
6A	Insulation Debris Bldg 30				
7A	Steam Line Bldg 50				
8A	Debris - Bldg 100 Crawlspace				
8B	" "				
9A	Insulation in above Ground Boiler Rooms Wood Bldgs				

Relinquished by:	Date: 4/1/2022	Time:	Received by:	Date: 4/4/22	Time: 10:52
------------------	----------------	-------	--------------	--------------	-------------

If no technician is provided, then the primary contact for your account will be selected. Unless scheduled, the turnaround time for all samples received after 3 pm EST will be logged in the next business day. Weekend or holiday work must be scheduled ahead of time and is charged at 150% of the 3hr TAT or a minimum charge of \$150. A courier charge will be applied for same day and one-day turnaround times for offsite work. SanAir covers Ground and Next Day Air shipping. Shipments billed to SanAir with a faster shipping rate will result in additional charges.

[illegible]

Special Instructions	
-----------------------------	--

Relinquished by	Date	Time	Received by	Date	Time
<i>[Signature]</i>	4/1/2022		<i>[Signature]</i>	4/1/22	10:15

ATTACHMENT #3

Interim Operations & Maintenance Plan

The contractors associated with Galego Court are aware of the presence and location of ACM within the above stated areas. They have been instructed not to disturb the material due to the potential health hazards if fibers become airborne.

1. Notification

All building occupants, also any contractors entering the building and/or premises to perform work, shall be notified of the presence and location of asbestos-containing material(s) and cautioned regarding disturbance of the material(s). Also, the building occupants must be notified regarding the occurrence of asbestos abatement activities. If an emergency fiber release occurs, the following procedures shall be initiated.

2. Fiber Release Episodes

A. Minor Release Episode

If a minor fiber release episode occurs (release of less than 10 linear feet or 25 square feet of material), trained maintenance staff may perform the cleaning. Access to the area shall be restricted during clean-up. All debris shall be thoroughly wetted using amended water and placed in labeled, double six-mil polyethylene bags. The area shall then be cleaned using HEPA filtered vacuums and/or wet cleaning methods. Damaged material must be cleaned and repaired with non-asbestos-containing material. The area shall then be evaluated to decide if further action is necessary.

B. Major Release Episode

If a major fiber release episode occurs (falling or dislodging of more than 10 linear feet or 25 square feet of ACM), the cleaning must be carried out and directed by persons accredited to conduct and design response actions. After such an episode, the area shall be immediately restricted and entry to the area prevented. Warning signs shall be posted to caution people other than those qualified to deal with the problem. Air handling units in the area shall be shut down to prevent the spread of fibers beyond the problem area. A response action shall be designed and carried out by qualified personnel.

3. Training

Any employee who, because of their work, may disturb asbestos-containing material shall be trained and certified as a Competent Person as described by the RI Rules and Regulations for Asbestos Control. The program coordinator shall ensure that the procedures described above to protect the building occupants shall be followed for any operations and maintenance activities disturbing or involving ACM.

ATTACHMENT #4

Scope of Work / Description of Waivers

All proper OSHA, federal, state, and local safety regulations shall be followed.

Request of Waivers:

PHA and ECM are requesting a waiver of pre-abatement air samples for the crawlspace. The area is not meant for long term human occupancy. Due to dirt floor and miscellaneous debris within the space obtaining readable samples is not possible. All individuals entering the crawlspace prior to abatement must wear at a minimum half face respirator with HEPA filters and disposable coveralls.

Area 1:

B.11 (1.16 New Regulations) Alternate Procedures for removal of debris:

All doors, windows, floor drains, vents and other openings to the outside of the building and to areas within the building that do not contain asbestos materials shall be sealed off with 6-mil polyethylene sheeting and waterproof tape.

Negative pressure ventilation units with HEPA filtration shall be operated continuously from the time of barrier construction through the time acceptable final clearance air monitoring results are obtained. These units shall exhaust filtered air to the outside of the building. Filtered air shall not be exhausted to uncontaminated interior spaces.

Once the space is under negative pressure ventilation with all critical barriers installed, debris on floor within the crawlspace must be removed as asbestos containing material (ACM).

B.8.7 (1.14.7 New Regulations) - Glovebag Procedures:

After debris has been removed from the space the contractor shall install floor and wall sheeting.

Floors shall consist of at least one (1) layer of 6-mil polyethylene sheeting.

Wall sheeting shall consist of at least one (1) layer of 4-mil polyethylene sheeting.

Pipe insulation will be abated utilizing B.8.7 work procedures.

Manufacturer's instructions concerning preparation, sealing, utilization and removal of glovebags must be followed unless the abatement plan and/or these regulations specify more restrictive requirements.

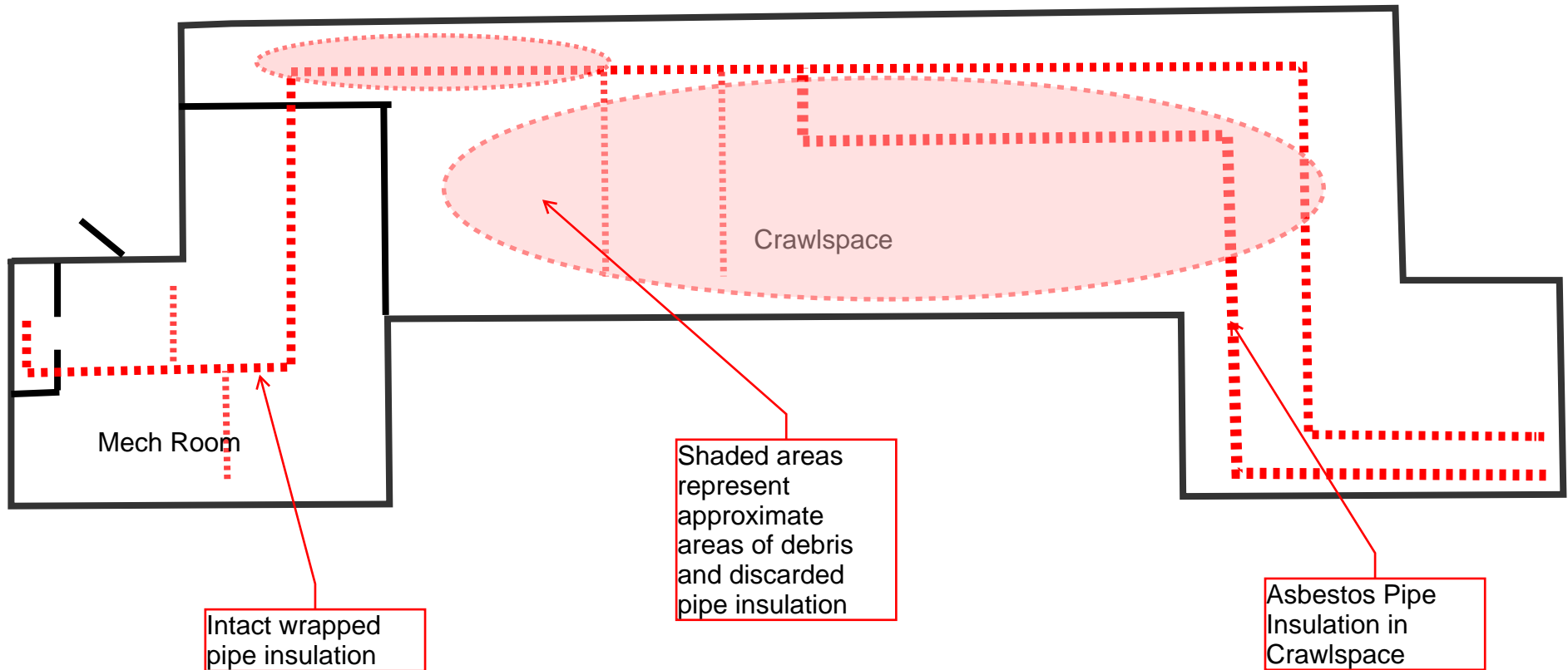
A three chamber worker decontamination enclosure system, in accordance with 29 CFR 1926.58(j), must be available immediately adjacent to the abatement area.

Area 2:

All pipe insulation located in the Mechanical Room/Boiler Room will be abated utilizing B.8.7 Glovebag Procedures.

Typical Brick Building Crawlspace and Mechanical Room

Buildings; 30-40, 50-60, 80-90, 100-110, 130-140
150-160, 190-200, 210-220



Asbestos Abatement Plan

Pawtucket Housing Authority Galego Court Building 170 - Crawlspace

Prepared for:

**ESM
1005 Main Street
Pawtucket, RI 02860**

Prepared by:



June 2022

RHODE ISLAND DEPARTMENT OF HEALTH

NOTARIZED CERTIFICATION OF ASBESTOS AMENDED ABATEMENT PLAN

Facility: **Galego Court – Building 170**

Address: **483 Weeden Street**

City/Town: **Pawtucket**

Zip: **02860**

Amendment Phase No:

Abatement Plan Written By: **Joseph M. Lepore**

Certification No: **APD00661**

Summary of specific waivers/variances being requested: **Pre-abatement air samples**

Type of Asbestos Abatement ☒ Removal ☐ Enclosure ☐ Encapsulation
☐ Demolition ☒ Glovebag ☐ Asphalt Roofing
☐ Other (specify) _____

Is this plan being submitted in response to a Notice of Violation and/or a Notice of Requirement to Submit an Asbestos Abatement Plan? ☐ Yes ☒ No

If yes, Indicate Notice/Building Evaluation No(s):

Contractor: **To be determined**

License No:

Estimated Starting Date: **07/20/2022**

Pre-Abatement Sampling Information

Bulk Samples Collected By: **Joseph M. Lepore**

Certification No: **AI00661**

Bulk Samples Analyzed By: **San Air Labs.**

Certification No: **PLM00126**

Air Samples Analyzed By: **NA**

Certification No: **NA**

Clearance Air Sampling Information

Air Samples to be Collected By: **ECM Inc. Personal**

Air Samples to be Analyzed By: **ECM Inc.**

Certification No: **PCM00131**

CERTIFICATION

I certify that: this asbestos abatement plan is prepared and submitted under the provisions of Section 23-24.5-6 of the RI Asbestos Control Act and Parts A and C of the RI Rules and Regulations for Asbestos Control; all abatement/management activities performed in conjunction with this plan must be in compliance with the specifications prescribed in this plan (when approved) and the most current revision of all applicable federal and state regulations; and the asbestos abatement/management activities described in this plan must be performed by a RI licensed asbestos abatement contractor.

Certified by:  _____

Title: **Executive Director**

JESSICA A. LIRIANO
Original Owner or Agent

Date: **7/13/22**

NOTARY PUBLIC

STATE OF RHODE ISLAND

Subscribed and sworn before me this **13** day of **July**, 20 **22**

My Commission Expires: **2/19/2024**

(Notary Public)

AFFIX NOTARY SEAL HERE

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
Department of Health
Office of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

1. Building Owner's Name:

Pawtucket Housing Authority

2. Application Prepared By:

Joseph M. Lepore

RI certification No: **AAC-0661**

Telephone No: **401-304-6614**

3. Building Owner's Mailing Address and Telephone Number:

Street: **214 Roosevelt Ave**

City/Town: **Pawtucket**

Zip: **02860**

Telephone No.: **401-721-6000**

(Area Code, No., Ext.)

4. Person to be contacted regarding this application:

Name: **Nicholas Toth**

Telephone No: **401-721-6044**

(Area Code, No., Ext.)

5. Location where abatement work will be performed:

Name (if applicable): **Building 170 Crawlspace**

Street: **483 Weeden Street**

City/Town: **Pawtucket**

Zip: **02860**

6. Is this application being submitted in response to a "Notice of Requirement to Submit an Asbestos Abatement plan"? () Yes (X) No

If Yes, what is the due date for submittal of Abatement plan? _____
(Mo.) (Day) (Yr.)

Evaluation Number on the Notice: _____

7. Contractor who will be performing abatement work (if selected):

Name: **To be determined**

R.I. License No.:

8. Estimated Starting Date of Abatement Work

07 **20** **2022**
(Month) (Day) (Year)

9. Estimated Completion Date of Abatement Work:

12 **31** **2022**
(Month) (Day) (Year)

10. Type of Asbestos Abatement:

(Check all that apply)

☒ Removal

☐ Enclosure

☐ Encapsulation

☐ Demolition

☐ Operations and Maintenance Only

☐ Asphalt Roofing

11. Type of Building:

☐ School

☐ Privately Owned Building

☒ Publicly Owned Building

☐ Residence

☐ Other (Specify) _____

12. Building Access:

☐ Public Access (\geq 25% of Building Area)

☒ Limited Public Access (< 25% of Building Area)

☐ No Public Access

13. Bulk Sample Collection and Analysis:

A. Person collecting bulk samples:

Name: **Joseph M. Lepore**

RI Certification No.: **AI00661**

B. Sampling Methodology:

☐ EPA AHERA Sampling requirements [40 CFR 763.86].

☒ EPA's Asbestos Containing Material in School Buildings: A Guidance Document (EPA-405/2-78-014) or Guidance for Controlling Asbestos Containing Materials – 1985 Edition (EPA-560-5-85-024)

☐ Other (Specify) _____

C. Laboratory performing the analysis of the bulk samples

Name: **San Air Labs**

RI Certification No.: **PLM00126**

D. Analytical Methodology:

☒ EPA Interim Method for the Determination of Asbestos in Bulk Insulation Samples [PLM method only].

☐ Other (Specify) _____

14. Pre-Abatement Air Sample Collection and Analysis:

A. Person collecting pre-abatement air samples:

Name: **NA**

Affiliation: **NA**

B. Laboratory performing analysis of pre-abatement air samples.

Name: **NA**

RI Certification No.: **NA**

C. Methodology used in the collection and analysis of pre-abatement samples:

☒ NIOSH Method 7400 [Most Current Revision]

☐ OSHA 29 CFR 1926.1101 – Appendix A & B

☐ Other (Specify)

15. A. Indicate how the regulated asbestos containing material (RACM) will be removed from the abatement site. If a hauler or broker will be used to transport the RACM to a disposal site, they must also be identified.

To be determined _____

- B. Provide the name and location of the authorized asbestos waste facility to which the removed material will be transferred for disposal (if known).

To be determined _____

16. Person designated as compliance monitor for abatement work. **[NOT REQUIRED]**

Name: **ECM Inc. Personnel**

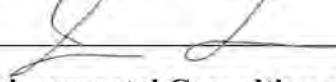
Affiliation: **Environmental Consulting and Management Inc. (ECM Inc.)**

1. In-Process & Clearance Air Sampling: **See Attachment #1**
 - A. Describe on an attachment the type, number and location of air samples that will be collected outside the work area during the abatement project.
 - B. Describe on an attachment the plan of action to be followed if the Indoor Non-Occupational Air Exposure Standard for Asbestos (0.01 fibers per cubic centimeter) is exceeded outside the work area during the abatement project.
 - C. Describe on an attachment the type, number and location of air samples that will be collected as part of the final clearance testing.
 - D. Describe on an attachment the plan of action to be followed if the Indoor Non-Occupational Air Exposure Standard for Asbestos (0.01 fiber per cubic centimeter) is exceed during final clearance testing.
-

2. A separate and fully completed Form ASB-16A must be submitted for each area to be abated. List below the entry in Item 1 from each attached ASB-16A.

Area 1 –Crawlspace

3. I certify that this plan was prepared by me and I am responsible for its content.

Signature:  Date 06 16 2022
(Month) (Day) (Year)
Affiliation: **Environmental Consulting and Management, Inc**

4. ASBESTOS ABATEMENT PLAN APPLICATION FEE:

- | | |
|--|--------|
| <input type="checkbox"/> Operation & Maintenance Only | \$ 75 |
| <input type="checkbox"/> Up to One (1) NESHAP Unit | \$ 75 |
| <input type="checkbox"/> Between One (1) & Ten (10) NESHAP Units | \$ 300 |
| <input type="checkbox"/> Between Ten (10) & Fifty (50) NESHAP Units | \$ 600 |
| <input type="checkbox"/> Over Fifty (50) NESHAP Units | \$ 900 |
| <input checked="" type="checkbox"/> RI State Agency Waived Application Fee | |

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Health

Office of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

SUPPLEMENTAL INFORMATION: AREA DESCRIPTION AND PROPOSED REMEDY

BUILDING LOCATION: 483 Weeden Street, Pawtucket, RI – Building 170

INSTRUCTIONS: All items on this form must be addressed. All references to attachments must be clearly identified. All attachments must be marked with the specific item numbers on this form to which they pertain.

1. Area Location/Identification (Room Name/No., Evaluation Number, etc.):

Area 1 – Crawlspace

2. Attach a description of each type (e.g. pipe, ceiling, etc.) of regulated asbestos containing material (RACM) in this area, including condition, location, quantity and asbestos content. Attach a copy of the laboratory report(s) for all samples. (NOTE: All laboratory reports must include the name of the building(s) and the location(s) of the sample(s).

Refer to Attachment #2

3. Attach a current scale drawing of this area, showing direction of North and East, which has been clearly annotated to show the type, location and quantity of all RACM in this area. This drawing must include a legend which acts as a guide to the scale, symbols and nomenclature used in the drawing. If a master plan or multiple drawings are provided, indicate the specific location(s) and drawing number(s) which depict this area. The location of the decontamination chamber must also be so indicated on the appropriate drawing(s).

Refer to Attached Building Drawing

4. PROPOSED REMEDIES:

- A. Attach a description of the interim Operations and Maintenance Plan that will be implemented in accordance with C.1.2 (b).

Refer to Attachment #3

(4) PROPOSED REMEDIES (cont.):

B. Will any portion of this area be abated by use of B.8 work procedures?

☒ Yes ☐ No

If Yes, indicate below which RACM in this area will be abated by use of the following B.8 work procedures:

B.8.2 & B.8.3 [REMOVAL]

B.8.2 & B.8.4 [ENCAPSULATION]

B.8.2 & B.8.5 [ENCLOSURE]

B.8.6 [DEMOLITION]

B.8.7 [GLOVEBAG] **Pipe insulation**

B.8.8 [ASP. ROOFING]

C. Are you requesting any waivers to the above selected B.8 procedure for any of the abatement activities in this area?

☒ Yes ☐ No **Pre-abatement air sampling**

If yes, attach a detailed description of the waivers requested you are proposing to utilize.

All items must be keyed to the specific section(s) of the regulations for which waivers are requested.

D. Are you proposing alternative procedures under B.11 for any of the abatement activities in this area?

☒ Yes ☐ No **See Attachment 4**

If yes, attach a detailed description of the alternate procedures requested you are proposing to utilize. Alternate procedures must include a justification for not following specific

section(s) of the regulations and be as protective of public health.

E. Will any RACM remain in this area after abatement?

☐ Yes ☐ No ☒ Beyond scope of inspection

If Yes, attach a description of the RACM that will remain and the details of the on-going Operations and Maintenance Plan that will be implemented in accordance with C.1.2(b).

AGENCY USE ONLY

ATTACHMENT #1

In Process and Clearance Air Sampling

- A. If requested by the building owner, ECM will be on site for part time monitoring and will collect one compliance air sample outside the containment area daily for the duration of asbestos removal operations inside this building. The sample will be collected outside the decontamination unit.
- B. Any deviation in proper procedures on the part of the contractor shall be reported to the building owner. This includes inadequate paperwork on site, disagreement and/or any deviation from previously outlined work procedures, or if compliance samples in the work area vicinity exceed 0.01 f/cc. The contractor's work shall then be stopped, without repercussion to the building owner or the project-monitoring firm until any conflicts and/or problems have been resolved.

- C. After the interior areas have passed the consultant's visual inspection, he or his authorized representative will collect the following air samples and the corresponding required blanks:

Area 1 – A minimum of 4 PCM clearance air samples will be collected from the crawlspace.

- D. If clearance monitoring after clean-up results in fiber concentrations in excess of the RI rules and regulation clearance air requirements, the project area shall be wet-cleaned, misted with water, and encapsulated with a liquid encapsulant. A period of no less than 24 hours shall elapse before the next set of clearance air samples can be collected. The sampling process shall be repeated until a satisfactory clearance air level is attained.

The asbestos contractor is held responsible for any costs associated with the re-cleaning and re-sampling of an area should clearance air samples exceed 0.01 f/cc.

ATTACHMENT #2

ASB-16A-2

POSITIVE ASBESTOS CONTAINING MATERIALS:

There is approximately 400lf of asbestos containing pipe insulation located within the crawlspace of building 170.

Visible pipe insulation debris was observed on the dirt floor within the crawlspace.

It is the contractor's responsibility to verify all quantities.

ATTACHMENT #2

(Continued)

1. Bulk Sample Results



Analysis Report
prepared for
Environmental Consulting & Management Inc

Report Date: 4/11/2022

Project Name: Galego Court - Crawlspace

Project #: 220155

SanAir ID#: 22016284



NVLAP LAB CODE 200870-0

10501 Trade Court | North Chesterfield, Virginia 23236
888.895.1177 | 804.897.1177 | fax: 804.897.0070 | IAQ@SanAir.com | SanAir.com



SanAir ID Number

22016284

FINAL REPORT

4/11/2022 10:17:12 AM

Name: Environmental Consulting & Management Inc
Address: 50 Kickemuit Ave
Bristol, RI 02809
Phone: 401-438-1360

Project Number: 220155

P.O. Number:

Project Name: Galego Court - Crawlspace

Collected Date: 4/1/2022

Received Date: 4/4/2022 10:15:00 AM

Dear Joseph M. Lepore,

We at SanAir would like to thank you for the work you recently submitted. The 17 sample(s) were received on Monday, April 04, 2022 via UPS. The final report(s) is enclosed for the following sample(s): 1A, 2A, 3A, 3B, 4A, 4B, 5A, 6A, 7A, 8A, 8B, 9A, 9B, 9C, 10A, 10B, 11A.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

A handwritten signature in black ink that reads "Sandra Sobrino". The signature is written in a cursive, flowing style.

Sandra Sobrino
Asbestos & Materials Laboratory Manager
SanAir Technologies Laboratory

Final Report Includes:

- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

Sample conditions:

- 17 samples in Good condition.



SanAir ID Number
22016284
FINAL REPORT
4/11/2022 10:17:12 AM

Name: Environmental Consulting & Management Inc
Address: 50 Kickemuit Ave
Bristol, RI 02809
Phone: 401-438-1360

Project Number: 220155
P.O. Number:
Project Name: Galego Court - Crawlspace
Collected Date: 4/1/2022
Received Date: 4/4/2022 10:15:00 AM

Analyst: Moore, Brandi

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
1A / 22016284-001 Insulation Bldg 10 Crawlspace	White Non-Fibrous Homogeneous		80% Other	15% Chrysotile 5% Amosite
2A / 22016284-002 Insulation Debris Bld 10 Crawlspace	White Non-Fibrous Homogeneous	10% Cellulose	70% Other	15% Chrysotile 5% Amosite
3A / 22016284-003 Insulation On Steam Line Bldg 20	White Non-Fibrous Heterogeneous	5% Cellulose	82% Other	10% Amosite 3% Chrysotile
3B / 22016284-004 Insulation On Steam Line Bldg 20	White Non-Fibrous Heterogeneous	5% Cellulose	80% Other	10% Amosite 5% Chrysotile
4A / 22016284-005 Insulation On Steam Line Bldg 40	White Non-Fibrous Heterogeneous		85% Other	10% Amosite 5% Chrysotile
4B / 22016284-006 Insulation On Steam Line Bldg 40	White Non-Fibrous Homogeneous		84% Other	8% Amosite 8% Chrysotile
5A / 22016284-007 Insulation Debris Bldg 50	Grey Fibrous Homogeneous	15% Cellulose	63% Other	15% Amosite 7% Chrysotile
6A / 22016284-008 Insulation Debris Bldg 30	Grey Fibrous Homogeneous		40% Other	60% Chrysotile
7A / 22016284-009 Steam Line Bldg 50	White Non-Fibrous Homogeneous		70% Other	20% Chrysotile 10% Amosite
8A / 22016284-010 Debris - Bldg 100 Crawlspace	Grey Fibrous Homogeneous		40% Other	60% Chrysotile

Analyst: *Brandi Moore*

Approved Signatory: *Jonathan Wilson*

Analysis Date: 4/11/2022

Date: 4/11/2022



SanAir ID Number

22016284

FINAL REPORT

4/11/2022 10:17:12 AM

Name: Environmental Consulting & Management Inc
Address: 50 Kickemuit Ave
Bristol, RI 02809
Phone: 401-438-1360

Project Number: 220155
P.O. Number:
Project Name: Galego Court - Crawlspace
Collected Date: 4/1/2022
Received Date: 4/4/2022 10:15:00 AM

Analyst: Moore, Brandi

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
8B / 22016284-011 Debris - Bldg 100 Crawlspace	White Non-Fibrous Heterogeneous		80% Other	10% Chrysotile 10% Amosite
9A / 22016284-012 Insulation In Above Ground Boiler Rooms Wood Bldgs, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
9A / 22016284-012 Insulation In Above Ground Boiler Rooms Wood Bldgs, Wrap	White Non-Fibrous Heterogeneous	30% Cellulose 15% Glass	55% Other	None Detected
9B / 22016284-013 Insulation Wood Bldg Boiler Rooms, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
9B / 22016284-013 Insulation Wood Bldg Boiler Rooms, Wrap	White Non-Fibrous Heterogeneous	30% Cellulose	70% Other	None Detected
9C / 22016284-014 Insulation Wood Bldg Boiler Rooms, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
9C / 22016284-014 Insulation Wood Bldg Boiler Rooms, Wrap	White Non-Fibrous Heterogeneous	30% Cellulose 15% Glass	55% Other	None Detected
10A / 22016284-015 Breaching On New Furnaces - Bldg 30, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
10A / 22016284-015 Breaching On New Furnaces - Bldg 30, Wrap	White Fibrous Heterogeneous	85% Glass	15% Other	None Detected
10B / 22016284-016 Breaching On New Furnaces - Bldg 30, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected

Analyst: *Brandi Moore*Approved Signatory: *Jonathan Wilson*

Analysis Date: 4/11/2022

Date: 4/11/2022



SanAir ID Number

22016284

FINAL REPORT

4/11/2022 10:17:12 AM

Name: Environmental Consulting & Management Inc
Address: 50 Kickemuit Ave
Bristol, RI 02809
Phone: 401-438-1360

Project Number: 220155
P.O. Number:
Project Name: Galego Court - Crawlspace
Collected Date: 4/1/2022
Received Date: 4/4/2022 10:15:00 AM

Analyst: Moore, Brandi

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
10B / 22016284-016 Breaching On New Furnaces - Bldg 30, Wrap	White Fibrous Heterogeneous	85% Glass	15% Other	None Detected
11A / 22016284-017 Wallboard Bldg 20 Boiler Room, Wallboard	Grey Non-Fibrous Homogeneous	5% Cellulose	95% Other	None Detected
11A / 22016284-017 Wallboard Bldg 20 Boiler Room, Joint Compound	White Non-Fibrous Homogeneous		100% Other	None Detected

Analyst:

Brandi Moore

Approved Signatory:

Johnathan Wilson

Analysis Date: 4/11/2022

Date: 4/11/2022

Disclaimer

This report is the sole property of the client named on the SanAir Technologies Laboratory chain-of-custody (COC). Results in the report are confidential information intended only for the use by the customer listed on the COC. Neither results nor reports will be discussed with or released to any third party without our client's written permission. The final report shall not be reproduced except in full without written approval of the laboratory to assure that parts of the report are not taken out of context. The information provided in this report applies only to the samples submitted and is relevant only for the date, time, and location of sampling. The accuracy of the results is dependent upon the client's sampling procedure and information provided to the laboratory by the client. SanAir assumes no responsibility for the sampling procedure and will provide evaluation reports based solely on the sample(s) in the condition in which they arrived at the laboratory and information provided by the client on the COC, such as: project number, project name, collection dates, po number, special instructions, samples collected by, sample numbers, sample identifications, sample type, selected analysis type, flow rate, total volume or area, and start stop times that may affect the validity of the results in this report. Samples were received in good condition unless otherwise noted on the report. SanAir assumes no responsibility or liability for the manner in which the results are used or interpreted. This report does not constitute and shall not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any other U.S. governmental agencies and may not be certified by every local, state, and federal regulatory agencies.

Samples are held for a period of 60 days. Fibers smaller than 5 microns cannot be seen with this method due to scope limitations.

For NY state samples, method EPA 600/M4-82-020 is performed.

NYELAP Disclaimer:

Polarized- light microscopy is not consistently reliable in detecting asbestos in floor covering and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

Asbestos Certifications

NVLAP lab code 200870-0

City of Philadelphia: ALL-460

PA Department of Environmental Protection Number: 68-05397

California License Number: 2915

Colorado License Number: AL-23143

Connecticut License Number: PH-0105

Massachusetts License Number: AA000222

Maine License Number: LB-0075, LA-0084

New York ELAP lab ID: 11983

Rhode Island License Number: PCM00126, PLM00126, TEM00126

Texas Department of State Health Services License Number: 300440

Commonwealth of Virginia 3333000323

Washington State License Number: C989

West Virginia License Number: LT000616

Vermont License: AL166318

Louisiana Department of Environmental Quality: 212253, Cert 05088

Revision Date: 8/14/2020



10501 Trade Ct., Suite 100
N. Chesterfield, VA 23236
804.897.1177 / 888.895.1177
Fax 804.897.0070
sanair.com

Asbestos
Chain of Custody
Form 140, Rev 6, 1/26/2022

SanAir ID Number

22016284

Company: Environmental Consulting & Management Inc	Project #: 220155	Collected by: Joe Lepore
Address: 50 Kickemuit Ave	Project Name: Galego Court - Crawlspace	Phone #: 401-438-1360
City, St., Zip: Bristol, RI 02809	Date Collected: 4/1/2022	Fax #: 401-438-1316
State of Collection: RI Account#: 2667	P.O. Number:	Email: JLepore@ECMNE.com

Bulk			Air			Soil		
ABB	PLM EPA 600/R-93/116	<input checked="" type="checkbox"/>	ABA	PCM NIOSH 7400	<input type="checkbox"/>	ABSE	PLM EPA 600/R-93/116 (Qual.)	<input type="checkbox"/>
	Positive Stop	<input type="checkbox"/>	ABA-2	OSHA w/ TWA*	<input type="checkbox"/>	Soil		
ABEPA	PLM EPA 400 Point Count	<input type="checkbox"/>	ABTEM	TEM AHERA	<input type="checkbox"/>	ABSP	PLM CARB 435 (LOD <1%)	<input type="checkbox"/>
ABB1K	PLM EPA 1000 Point Count	<input type="checkbox"/>	ABATN	TEM NIOSH 7402	<input type="checkbox"/>	ABSP1	PLM CARB 435 (LOD 0.25%)	<input type="checkbox"/>
ABBN	PLM EPA NOB**	<input type="checkbox"/>	ABT2	TEM Level II	<input type="checkbox"/>	ABSP2	PLM CARB 435 (LOD 0.1%)	<input type="checkbox"/>
ABBCH	TEM Chatfield**	<input type="checkbox"/>	Other:		<input type="checkbox"/>	Dust		
ABBTM	TEM EPA NOB**	<input type="checkbox"/>	New York ELAP			ABWA	TEM Wipe ASTM D-6480	<input type="checkbox"/>
ABQ	PLM Qualitative	<input type="checkbox"/>	ABEPA2	NY ELAP 198.1	<input type="checkbox"/>	ABDMV	TEM Microvac ASTM D-5755	<input type="checkbox"/>
			ABENY	NY ELAP 198.6 PLM NOB	<input type="checkbox"/>			
			ABBNY	NY ELAP 198.4 TEM NOB	<input type="checkbox"/>			
Water						Matrix Other		
ABHE	EPA 100.2	<input type="checkbox"/>				<input type="checkbox"/>		

** Available on 24-hr. to 5-day TAT

Turn Around Times	3 HR (4 HR TEM) <input type="checkbox"/>	6 HR (8HR TEM) <input type="checkbox"/>	12 HR <input type="checkbox"/>	1 Day <input type="checkbox"/>
	<input type="checkbox"/> 2 Days	<input type="checkbox"/> 3 Days	<input checked="" type="checkbox"/> 4 Days	<input type="checkbox"/> 5 Days

Special Instructions



Sample #	Sample Identification/Location	Volume or Area	Sample Date	Flow Rate*	Start - Stop Time*
1A	Insulation Bldg 10 Crawlspace				
2A	Insulation Debris Bldg 10 Crawlspace				
3A	Insulation on Steam line Bldg 20				
3B	" "				
4A	Insulation on Steam line Bldg 40				
4B	" "				
5A	Insulation Debris Bldg 50				
6A	Insulation Debris Bldg 30				
7A	Steam Line Bldg 50				
8A	Debris - Bldg 100 Crawlspace				
8B	" "				
9A	Insulation in above Ground Boiler Rooms Wood Bldgs				

Relinquished by	Date	Time	Received by	Date	Time
	4/1/2022		ZAO	4/4/22	10:52

If no technician is provided, then the primary contact for your account will be selected. Unless scheduled, the turnaround time for all samples received after 3 pm EST will be logged in the next business day. Weekend or holiday work must be scheduled ahead of time and is charged at 150% of the 3hr TAT or a minimum charge of \$150. A courier charge will be applied for same day and one-day turnaround times for offsite work. SanAir covers Ground and Next Day Air shipping. Shipments billed to SanAir with a faster shipping rate will result in additional charges.

[illegible]

Special Instructions	
-----------------------------	--

Relinquished by	Date	Time	Received by	Date	Time
	4/1/2022			4/1/22	10:15

ATTACHMENT #3

Interim Operations & Maintenance Plan

The contractors associated with Galego Court are aware of the presence and location of ACBM within the above stated areas. They have been instructed not to disturb the material due to the potential health hazards if fibers become airborne.

1. Notification

All building occupants, also any contractors entering the building and/or premises to perform work, shall be notified of the presence and location of asbestos-containing material(s) and cautioned regarding disturbance of the material(s). Also, the building occupants must be notified regarding the occurrence of asbestos abatement activities. If an emergency fiber release occurs, the following procedures shall be initiated.

2. Fiber Release Episodes

A. Minor Release Episode

If a minor fiber release episode occurs (release of less than 10 linear feet or 25 square feet of material), trained maintenance staff may perform the cleaning. Access to the area shall be restricted during clean-up. All debris shall be thoroughly wetted using amended water and placed in labeled, double six-mil polyethylene bags. The area shall then be cleaned using HEPA filtered vacuums and/or wet cleaning methods. Damaged material must be cleaned and repaired with non-asbestos-containing material. The area shall then be evaluated to decide if further action is necessary.

B. Major Release Episode

If a major fiber release episode occurs (falling or dislodging of more than 10 linear feet or 25 square feet of ACBM), the cleaning must be carried out and directed by persons accredited to conduct and design response actions. After such an episode, the area shall be immediately restricted and entry to the area prevented. Warning signs shall be posted to caution people other than those qualified to deal with the problem. Air handling units in the area shall be shut down to prevent the spread of fibers beyond the problem area. A response action shall be designed and carried out by qualified personnel.

3. Training

Any employee who, because of their work, may disturb asbestos-containing material shall be trained and certified as a Competent Person as described by the RI Rules and Regulations for Asbestos Control. The program coordinator shall ensure that the procedures described above to protect the building occupants shall be followed for any operations and maintenance activities disturbing or involving ACBM.

ATTACHMENT #4

Scope of Work / Description of Waivers

All proper OSHA, federal, state, and local safety regulations shall be followed.

Request of Waivers:

PHA and ECM are requesting a waiver of pre-abatement air samples for the crawlspace. The area is not meant for long term human occupancy. Due to dirt floor and miscellaneous debris within the space obtaining readable samples is not possible. All individuals entering the crawlspace prior to abatement must wear at a minimum half face respirator with HEPA filters and disposable coveralls.

B.11 (1.16 New Regulations) Alternate Procedures for removal of debris:

All doors, windows, floor drains, vents and other openings to the outside of the building and to areas within the building that do not contain asbestos materials shall be sealed off with 6-mil polyethylene sheeting and waterproof tape.

Negative pressure ventilation units with HEPA filtration shall be operated continuously from the time of barrier construction through the time acceptable final clearance air monitoring results are obtained. These units shall exhaust filtered air to the outside of the building. Filtered air shall not be exhausted to uncontaminated interior spaces.

Once the space is under negative pressure ventilation with all critical barriers installed, debris on floor within the crawlspace must be removed as asbestos containing material (ACM).

B.8.7 (1.14.7 New Regulations) - Glovebag Procedures:

After debris has been removed from the space the contractor shall install floor and wall sheeting.

Floors shall consist of at least one (1) layer of 6-mil polyethylene sheeting.

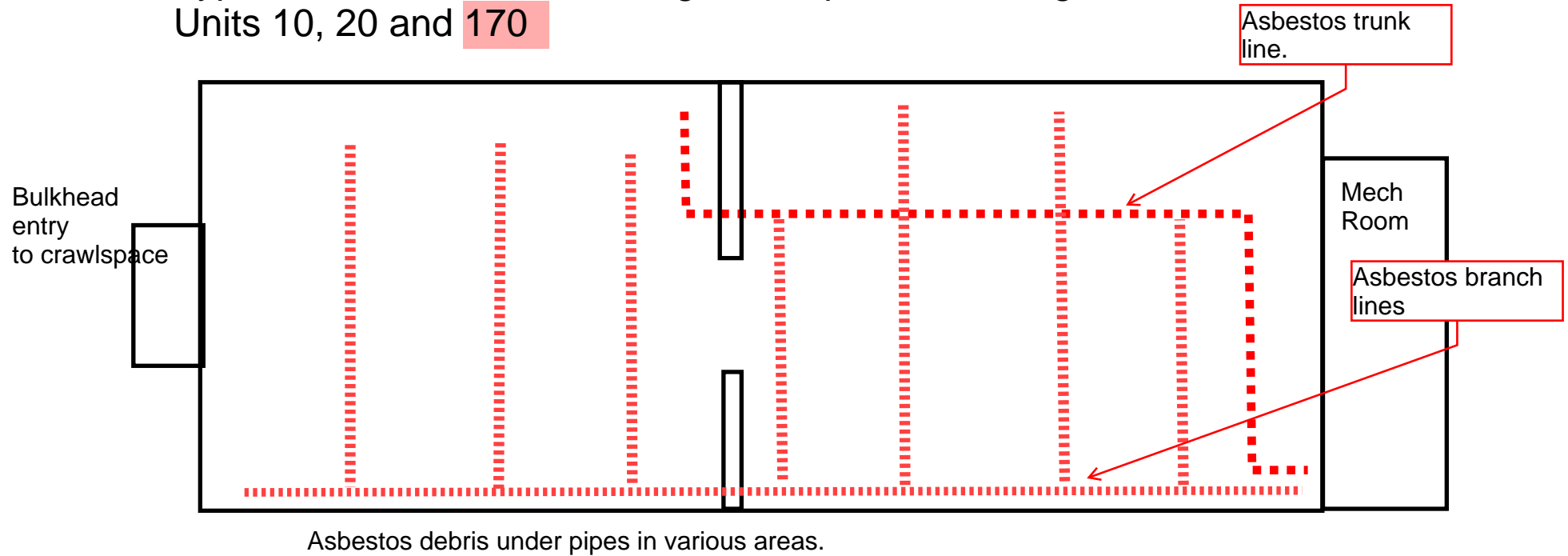
Wall sheeting shall consist of at least one (1) layer of 4-mil polyethylene sheeting.

Pipe insulation will be abated utilizing B.8.7 work procedures.

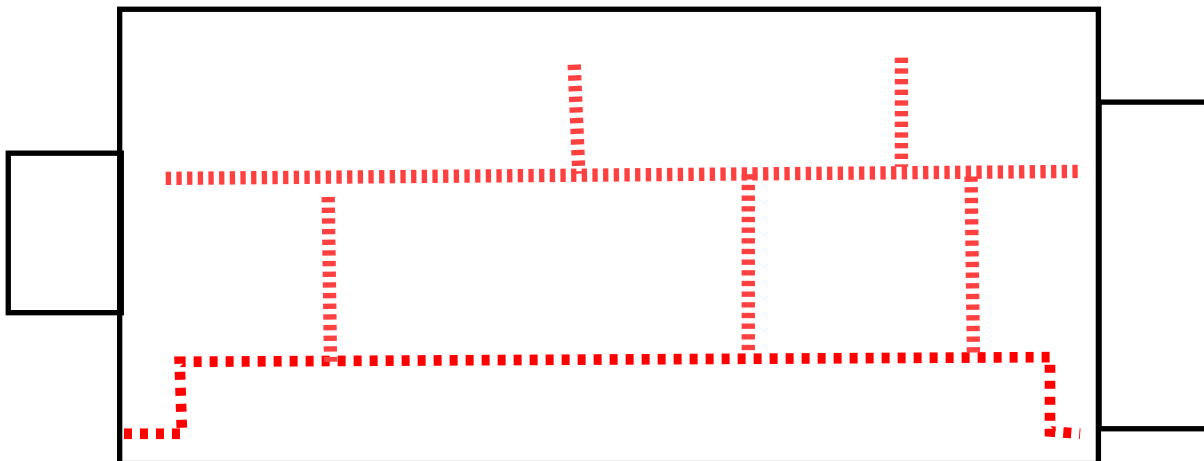
Manufacturer's instructions concerning preparation, sealing, utilization and removal of glovebags must be followed unless the abatement plan and/or these regulations specify more restrictive requirements.

A three chamber worker decontamination enclosure system, in accordance with 29 CFR 1926.58(j), must be available immediately adjacent to the abatement area.

Typical Wood Framed Building Crawlspace - 6 Living Units Units 10, 20 and 170



Typical Wood Framed Building Crawlspace - 3 Living Units (180 and 230)



Asbestos Abatement Plan

Pawtucket Housing Authority Galego Court Building 180 - Crawlspace

Prepared for:

**ESM
1005 Main Street
Pawtucket, RI 02860**

Prepared by:



June 2022

RHODE ISLAND DEPARTMENT OF HEALTH

NOTARIZED CERTIFICATION OF ASBESTOS AMENDED ABATEMENT PLAN

Facility: **Galego Court – Building 180**

Address: **483 Weeden Street**

City/Town: **Pawtucket**

Zip: **02860**

Amendment Phase No:

Abatement Plan Written By: **Joseph M. Lepore**

Certification No: **APD00661**

Summary of specific waivers/variances being requested: **Pre-abatement air samples**

Type of Asbestos Abatement ☒ Removal ☐ Enclosure ☐ Encapsulation
☐ Demolition ☒ Glovebag ☐ Asphalt Roofing
☐ Other (specify) _____

Is this plan being submitted in response to a Notice of Violation and/or a Notice of Requirement to Submit an Asbestos Abatement Plan? ☐ Yes ☒ No

If yes, Indicate Notice/Building Evaluation No(s):

Contractor: **To be determined**

License No:

Estimated Starting Date: **07/20/2022**

Pre-Abatement Sampling Information

Bulk Samples Collected By: **Joseph M. Lepore**

Certification No: **AI00661**

Bulk Samples Analyzed By: **San Air Labs.**

Certification No: **PLM00126**

Air Samples Analyzed By: **NA**

Certification No: **NA**

Clearance Air Sampling Information

Air Samples to be Collected By: **ECM Inc. Personal**

Air Samples to be Analyzed By: **ECM Inc.**

Certification No: **PCM00131**

CERTIFICATION

I certify that: this asbestos abatement plan is prepared and submitted under the provisions of Section 23-24.5-6 of the RI Asbestos Control Act and Parts A and C of the RI Rules and Regulations for Asbestos Control; all abatement/management activities performed in conjunction with this plan must be in compliance with the specifications prescribed in this plan (when approved) and the most current revision of all applicable federal and state regulations; and the asbestos abatement/management activities described in this plan must be performed by a RI licensed asbestos abatement contractor.

Certified by:


(Signature of Building Owner or Agent)
JESSICA A. LIRIANO

Title:

Executive Director

Date:

7/13/22

(Typed Printed Name of Notary)

NOTARY PUBLIC

Subscribed and sworn to before me on this **13**

day of

July

, 20

22

My Commission Expires:

2/19/2024

(Notary Public)

AFFIX NOTARY SEAL HERE

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
Department of Health
Office of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

1. Building Owner's Name:

Pawtucket Housing Authority

2. Application Prepared By:

Joseph M. Lepore

RI certification No: **AAC-0661**

Telephone No: **401-304-6614**

3. Building Owner's Mailing Address and Telephone Number:

Street: **214 Roosevelt Ave**

City/Town: **Pawtucket**

Zip: **02860**

Telephone No.: **401-721-6000**

(Area Code, No., Ext.)

4. Person to be contacted regarding this application:

Name: **Nicholas Toth**

Telephone No: **401-721-6044**

(Area Code, No., Ext.)

5. Location where abatement work will be performed:

Name (if applicable): **Building 180 Crawlspace**

Street: **483 Weeden Street**

City/Town: **Pawtucket**

Zip: **02860**

6. Is this application being submitted in response to a "Notice of Requirement to Submit an Asbestos Abatement plan"? () Yes (X) No

If Yes, what is the due date for submittal of Abatement plan? _____
(Mo.) (Day) (Yr.)

Evaluation Number on the Notice: _____

7. Contractor who will be performing abatement work (if selected):

Name: **To be determined**

R.I. License No.:

8. Estimated Starting Date of Abatement Work

07 **20** **2022**
(Month) (Day) (Year)

9. Estimated Completion Date of Abatement Work:

12 **31** **2022**
(Month) (Day) (Year)

10. Type of Asbestos Abatement:

(Check all that apply)

☒ Removal

☐ Enclosure

☐ Encapsulation

☐ Demolition

☐ Operations and Maintenance Only

☐ Asphalt Roofing

11. Type of Building:

☐ School

☐ Privately Owned Building

☒ Publicly Owned Building

☐ Residence

☐ Other (Specify) _____

12. Building Access:

☐ Public Access (\geq 25% of Building Area)

☒ Limited Public Access (< 25% of Building Area)

☐ No Public Access

13. Bulk Sample Collection and Analysis:

A. Person collecting bulk samples:

Name: **Joseph M. Lepore**

RI Certification No.: **AI00661**

B. Sampling Methodology:

☐ EPA AHERA Sampling requirements [40 CFR 763.86].

☒ EPA's Asbestos Containing Material in School Buildings: A Guidance Document (EPA-405/2-78-014) or Guidance for Controlling Asbestos Containing Materials – 1985 Edition (EPA-560-5-85-024)

☐ Other (Specify) _____

C. Laboratory performing the analysis of the bulk samples

Name: **San Air Labs**

RI Certification No.: **PLM00126**

D. Analytical Methodology:

☒ EPA Interim Method for the Determination of Asbestos in Bulk Insulation Samples [PLM method only].

☐ Other (Specify) _____

14. Pre-Abatement Air Sample Collection and Analysis:

A. Person collecting pre-abatement air samples:

Name: **NA**

Affiliation: **NA**

B. Laboratory performing analysis of pre-abatement air samples.

Name: **NA**

RI Certification No.: **NA**

C. Methodology used in the collection and analysis of pre-abatement samples:

☒ NIOSH Method 7400 [Most Current Revision]

☐ OSHA 29 CFR 1926.1101 – Appendix A & B

☐ Other (Specify)

15. A. Indicate how the regulated asbestos containing material (RACM) will be removed from the abatement site. If a hauler or broker will be used to transport the RACM to a disposal site, they must also be identified.

To be determined _____

- B. Provide the name and location of the authorized asbestos waste facility to which the removed material will be transferred for disposal (if known).

To be determined _____

16. Person designated as compliance monitor for abatement work. **[NOT REQUIRED]**

Name: **ECM Inc. Personnel**

Affiliation: **Environmental Consulting and Management Inc. (ECM Inc.)**

1. In-Process & Clearance Air Sampling: **See Attachment #1**
 - A. Describe on an attachment the type, number and location of air samples that will be collected outside the work area during the abatement project.
 - B. Describe on an attachment the plan of action to be followed if the Indoor Non-Occupational Air Exposure Standard for Asbestos (0.01 fibers per cubic centimeter) is exceeded outside the work area during the abatement project.
 - C. Describe on an attachment the type, number and location of air samples that will be collected as part of the final clearance testing.
 - D. Describe on an attachment the plan of action to be followed if the Indoor Non-Occupational Air Exposure Standard for Asbestos (0.01 fiber per cubic centimeter) is exceed during final clearance testing.
-

2. A separate and fully completed Form ASB-16A must be submitted for each area to be abated. List below the entry in Item 1 from each attached ASB-16A.

Area 1 –Crawlspace

3. I certify that this plan was prepared by me and I am responsible for its content.

Signature: _____ Date 06 16 2022
(Month) (Day) (Year)
Affiliation: **Environmental Consulting and Management, Inc**

4. ASBESTOS ABATEMENT PLAN APPLICATION FEE:

() Operation & Maintenance Only	\$ 75
() Up to One (1) NESHAP Unit	\$ 75
() Between One (1) & Ten (10) NESHAP Units	\$ 300
() Between Ten (10) & Fifty (50) NESHAP Units	\$ 600
() Over Fifty (50) NESHAP Units	\$ 900
(X) RI State Agency Waived Application Fee	

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Health

Office of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

SUPPLEMENTAL INFORMATION: AREA DESCRIPTION AND PROPOSED REMEDY

BUILDING LOCATION: 483 Weeden Street, Pawtucket, RI – Building 180

INSTRUCTIONS: All items on this form must be addressed. All references to attachments must be clearly identified. All attachments must be marked with the specific item numbers on this form to which they pertain.

1. Area Location/Identification (Room Name/No., Evaluation Number, etc.):

Area 1 – Crawlspace

2. Attach a description of each type (e.g. pipe, ceiling, etc.) of regulated asbestos containing material (RACM) in this area, including condition, location, quantity and asbestos content. Attach a copy of the laboratory report(s) for all samples. (NOTE: All laboratory reports must include the name of the building(s) and the location(s) of the sample(s).

Refer to Attachment #2

3. Attach a current scale drawing of this area, showing direction of North and East, which has been clearly annotated to show the type, location and quantity of all RACM in this area. This drawing must include a legend which acts as a guide to the scale, symbols and nomenclature used in the drawing. If a master plan or multiple drawings are provided, indicate the specific location(s) and drawing number(s) which depict this area. The location of the decontamination chamber must also be so indicated on the appropriate drawing(s).

Refer to Attached Building Drawing

4. PROPOSED REMEDIES:

- A. Attach a description of the interim Operations and Maintenance Plan that will be implemented in accordance with C.1.2 (b).

Refer to Attachment #3

(4) PROPOSED REMEDIES (cont.):

B. Will any portion of this area be abated by use of B.8 work procedures?

☒ Yes ☐ No

If Yes, indicate below which RACM in this area will be abated by use of the following B.8 work procedures:

B.8.2 & B.8.3 [REMOVAL]

B.8.2 & B.8.4 [ENCAPSULATION]

B.8.2 & B.8.5 [ENCLOSURE]

B.8.6 [DEMOLITION]

B.8.7 [GLOVEBAG] **Pipe insulation**

B.8.8 [ASP. ROOFING]

C. Are you requesting any waivers to the above selected B.8 procedure for any of the abatement activities in this area?

☒ Yes ☐ No **Pre-abatement air sampling**

If yes, attach a detailed description of the waivers requested you are proposing to utilize.

All items must be keyed to the specific section(s) of the regulations for which waivers are requested.

D. Are you proposing alternative procedures under B.11 for any of the abatement activities in this area?

☒ Yes ☐ No **See Attachment 4**

If yes, attach a detailed description of the alternate procedures requested you are proposing to utilize. Alternate procedures must include a justification for not following specific

section(s) of the regulations and be as protective of public health.

E. Will any RACM remain in this area after abatement?

☐ Yes ☐ No ☒ Beyond scope of inspection

If Yes, attach a description of the RACM that will remain and the details of the on-going Operations and Maintenance Plan that will be implemented in accordance with C.1.2(b).

AGENCY USE ONLY

ATTACHMENT #1

In Process and Clearance Air Sampling

- A. If requested by the building owner, ECM will be on site for part time monitoring and will collect one compliance air sample outside the containment area daily for the duration of asbestos removal operations inside this building. The sample will be collected outside the decontamination unit.
- B. Any deviation in proper procedures on the part of the contractor shall be reported to the building owner. This includes inadequate paperwork on site, disagreement and/or any deviation from previously outlined work procedures, or if compliance samples in the work area vicinity exceed 0.01 f/cc. The contractor's work shall then be stopped, without repercussion to the building owner or the project-monitoring firm until any conflicts and/or problems have been resolved.

- C. After the interior areas have passed the consultant's visual inspection, he or his authorized representative will collect the following air samples and the corresponding required blanks:

Area 1 – A minimum of 2 PCM clearance air samples will be collected from the crawlspace.

- D. If clearance monitoring after clean-up results in fiber concentrations in excess of the RI rules and regulation clearance air requirements, the project area shall be wet-cleaned, misted with water, and encapsulated with a liquid encapsulant. A period of no less than 24 hours shall elapse before the next set of clearance air samples can be collected. The sampling process shall be repeated until a satisfactory clearance air level is attained.

The asbestos contractor is held responsible for any costs associated with the re-cleaning and re-sampling of an area should clearance air samples exceed 0.01 f/cc.

ATTACHMENT #2

ASB-16A-2

POSITIVE ASBESTOS CONTAINING MATERIALS:

There is approximately 200lf of asbestos containing pipe insulation located within the crawlspace of building 180.

Visible pipe insulation debris was observed on the dirt floor within the crawlspace.

It is the contractor's responsibility to verify all quantities.

ATTACHMENT #2

(Continued)

1. Bulk Sample Results



Analysis Report
prepared for
Environmental Consulting & Management Inc

Report Date: 4/11/2022

Project Name: Galego Court - Crawlspace

Project #: 220155

SanAir ID#: 22016284



NVLAP LAB CODE 200870-0

10501 Trade Court | North Chesterfield, Virginia 23236
888.895.1177 | 804.897.1177 | fax: 804.897.0070 | IAQ@SanAir.com | SanAir.com



SanAir ID Number

22016284

FINAL REPORT

4/11/2022 10:17:12 AM

Name: Environmental Consulting & Management Inc
Address: 50 Kickemuit Ave
Bristol, RI 02809
Phone: 401-438-1360

Project Number: 220155

P.O. Number:

Project Name: Galego Court - Crawlspace

Collected Date: 4/1/2022

Received Date: 4/4/2022 10:15:00 AM

Dear Joseph M. Lepore,

We at SanAir would like to thank you for the work you recently submitted. The 17 sample(s) were received on Monday, April 04, 2022 via UPS. The final report(s) is enclosed for the following sample(s): 1A, 2A, 3A, 3B, 4A, 4B, 5A, 6A, 7A, 8A, 8B, 9A, 9B, 9C, 10A, 10B, 11A.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

A handwritten signature in black ink that reads "Sandra Sobrino". The signature is written in a cursive, flowing style.

Sandra Sobrino
Asbestos & Materials Laboratory Manager
SanAir Technologies Laboratory

Final Report Includes:

- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

Sample conditions:

- 17 samples in Good condition.



SanAir ID Number
22016284
FINAL REPORT
4/11/2022 10:17:12 AM

Name: Environmental Consulting & Management Inc
Address: 50 Kickemuit Ave
Bristol, RI 02809
Phone: 401-438-1360

Project Number: 220155
P.O. Number:
Project Name: Galego Court - Crawlspace
Collected Date: 4/1/2022
Received Date: 4/4/2022 10:15:00 AM

Analyst: Moore, Brandi

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
1A / 22016284-001 Insulation Bldg 10 Crawlspace	White Non-Fibrous Homogeneous		80% Other	15% Chrysotile 5% Amosite
2A / 22016284-002 Insulation Debris Bld 10 Crawlspace	White Non-Fibrous Homogeneous	10% Cellulose	70% Other	15% Chrysotile 5% Amosite
3A / 22016284-003 Insulation On Steam Line Bldg 20	White Non-Fibrous Heterogeneous	5% Cellulose	82% Other	10% Amosite 3% Chrysotile
3B / 22016284-004 Insulation On Steam Line Bldg 20	White Non-Fibrous Heterogeneous	5% Cellulose	80% Other	10% Amosite 5% Chrysotile
4A / 22016284-005 Insulation On Steam Line Bldg 40	White Non-Fibrous Heterogeneous		85% Other	10% Amosite 5% Chrysotile
4B / 22016284-006 Insulation On Steam Line Bldg 40	White Non-Fibrous Homogeneous		84% Other	8% Amosite 8% Chrysotile
5A / 22016284-007 Insulation Debris Bldg 50	Grey Fibrous Homogeneous	15% Cellulose	63% Other	15% Amosite 7% Chrysotile
6A / 22016284-008 Insulation Debris Bldg 30	Grey Fibrous Homogeneous		40% Other	60% Chrysotile
7A / 22016284-009 Steam Line Bldg 50	White Non-Fibrous Homogeneous		70% Other	20% Chrysotile 10% Amosite
8A / 22016284-010 Debris - Bldg 100 Crawlspace	Grey Fibrous Homogeneous		40% Other	60% Chrysotile

Analyst: *Brandi Moore*

Approved Signatory: *Jonathan Wilson*

Analysis Date: 4/11/2022

Date: 4/11/2022



SanAir ID Number

22016284

FINAL REPORT

4/11/2022 10:17:12 AM

Name: Environmental Consulting & Management Inc
Address: 50 Kickemuit Ave
Bristol, RI 02809
Phone: 401-438-1360

Project Number: 220155**P.O. Number:****Project Name:** Galego Court - Crawlspace**Collected Date:** 4/1/2022**Received Date:** 4/4/2022 10:15:00 AM

Analyst: Moore, Brandi

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
8B / 22016284-011 Debris - Bldg 100 Crawlspace	White Non-Fibrous Heterogeneous		80% Other	10% Chrysotile 10% Amosite
9A / 22016284-012 Insulation In Above Ground Boiler Rooms Wood Bldgs, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
9A / 22016284-012 Insulation In Above Ground Boiler Rooms Wood Bldgs, Wrap	White Non-Fibrous Heterogeneous	30% Cellulose 15% Glass	55% Other	None Detected
9B / 22016284-013 Insulation Wood Bldg Boiler Rooms, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
9B / 22016284-013 Insulation Wood Bldg Boiler Rooms, Wrap	White Non-Fibrous Heterogeneous	30% Cellulose	70% Other	None Detected
9C / 22016284-014 Insulation Wood Bldg Boiler Rooms, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
9C / 22016284-014 Insulation Wood Bldg Boiler Rooms, Wrap	White Non-Fibrous Heterogeneous	30% Cellulose 15% Glass	55% Other	None Detected
10A / 22016284-015 Breaching On New Furnaces - Bldg 30, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
10A / 22016284-015 Breaching On New Furnaces - Bldg 30, Wrap	White Fibrous Heterogeneous	85% Glass	15% Other	None Detected
10B / 22016284-016 Breaching On New Furnaces - Bldg 30, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected

Analyst: *Brandi Moore*Approved Signatory: *Jonathan Wilson*

Analysis Date: 4/11/2022

Date: 4/11/2022



SanAir ID Number

22016284

FINAL REPORT

4/11/2022 10:17:12 AM

Name: Environmental Consulting & Management Inc
Address: 50 Kickemuit Ave
Bristol, RI 02809
Phone: 401-438-1360

Project Number: 220155
P.O. Number:
Project Name: Galego Court - Crawlspace
Collected Date: 4/1/2022
Received Date: 4/4/2022 10:15:00 AM

Analyst: Moore, Brandi

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
10B / 22016284-016 Breaching On New Furnaces - Bldg 30, Wrap	White Fibrous Heterogeneous	85% Glass	15% Other	None Detected
11A / 22016284-017 Wallboard Bldg 20 Boiler Room, Wallboard	Grey Non-Fibrous Homogeneous	5% Cellulose	95% Other	None Detected
11A / 22016284-017 Wallboard Bldg 20 Boiler Room, Joint Compound	White Non-Fibrous Homogeneous		100% Other	None Detected

Analyst:

Brandi Moore

Approved Signatory:

Johnathan Wilson

Analysis Date: 4/11/2022

Date: 4/11/2022

Disclaimer

This report is the sole property of the client named on the SanAir Technologies Laboratory chain-of-custody (COC). Results in the report are confidential information intended only for the use by the customer listed on the COC. Neither results nor reports will be discussed with or released to any third party without our client's written permission. The final report shall not be reproduced except in full without written approval of the laboratory to assure that parts of the report are not taken out of context. The information provided in this report applies only to the samples submitted and is relevant only for the date, time, and location of sampling. The accuracy of the results is dependent upon the client's sampling procedure and information provided to the laboratory by the client. SanAir assumes no responsibility for the sampling procedure and will provide evaluation reports based solely on the sample(s) in the condition in which they arrived at the laboratory and information provided by the client on the COC, such as: project number, project name, collection dates, po number, special instructions, samples collected by, sample numbers, sample identifications, sample type, selected analysis type, flow rate, total volume or area, and start stop times that may affect the validity of the results in this report. Samples were received in good condition unless otherwise noted on the report. SanAir assumes no responsibility or liability for the manner in which the results are used or interpreted. This report does not constitute and shall not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any other U.S. governmental agencies and may not be certified by every local, state, and federal regulatory agencies.

Samples are held for a period of 60 days. Fibers smaller than 5 microns cannot be seen with this method due to scope limitations.

For NY state samples, method EPA 600/M4-82-020 is performed.

NYELAP Disclaimer:

Polarized- light microscopy is not consistently reliable in detecting asbestos in floor covering and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

Asbestos Certifications

NVLAP lab code 200870-0

City of Philadelphia: ALL-460

PA Department of Environmental Protection Number: 68-05397

California License Number: 2915

Colorado License Number: AL-23143

Connecticut License Number: PH-0105

Massachusetts License Number: AA000222

Maine License Number: LB-0075, LA-0084

New York ELAP lab ID: 11983

Rhode Island License Number: PCM00126, PLM00126, TEM00126

Texas Department of State Health Services License Number: 300440

Commonwealth of Virginia 3333000323

Washington State License Number: C989

West Virginia License Number: LT000616

Vermont License: AL166318

Louisiana Department of Environmental Quality: 212253, Cert 05088

Revision Date: 8/14/2020



10501 Trade Ct., Suite 100
N. Chesterfield, VA 23236
804.897.1177 / 888.895.1177
Fax 804.897.0070
sanair.com

Asbestos
Chain of Custody
Form 140, Rev 6, 1/26/2022

SanAir ID Number

22016284

Company: Environmental Consulting & Management Inc	Project #: 220155	Collected by: Joe Lepore
Address: 50 Kickemuit Ave	Project Name: Galego Court - Crawlspace	Phone #: 401-438-1380
City, St., Zip: Bristol, RI 02809	Date Collected: 4/1/2022	Fax #: 401-438-1316
State of Collection: RI Account#: 2667	P.O. Number:	Email: JLepore@ECMNE.com

Bulk			Air			Soil		
ABB	PLM EPA 600/R-93/116	<input checked="" type="checkbox"/>	ABA	PCM NIOSH 7400	<input type="checkbox"/>	ABSE	PLM EPA 600/R-93/116 (Qual.)	<input type="checkbox"/>
	Positive Stop	<input type="checkbox"/>	ABA-2	OSHA w/ TWA*	<input type="checkbox"/>	Soil		
ABEPA	PLM EPA 400 Point Count	<input type="checkbox"/>	ABTEM	TEM AHERA	<input type="checkbox"/>	ABSP	PLM CARB 435 (LOD <1%)	<input type="checkbox"/>
ABB1K	PLM EPA 1000 Point Count	<input type="checkbox"/>	ABATN	TEM NIOSH 7402	<input type="checkbox"/>	ABSP1	PLM CARB 435 (LOD 0.25%)	<input type="checkbox"/>
ABBN	PLM EPA NOB**	<input type="checkbox"/>	ABT2	TEM Level II	<input type="checkbox"/>	ABSP2	PLM CARB 435 (LOD 0.1%)	<input type="checkbox"/>
ABBCH	TEM Chatfield**	<input type="checkbox"/>	Other:		<input type="checkbox"/>	Dust		
ABBTM	TEM EPA NOB**	<input type="checkbox"/>	New York ELAP			ABWA	TEM Wipe ASTM D-6480	<input type="checkbox"/>
ABQ	PLM Qualitative	<input type="checkbox"/>	ABEPA2	NY ELAP 198.1	<input type="checkbox"/>	ABDMV	TEM Microvac ASTM D-5755	<input type="checkbox"/>
			ABENY	NY ELAP 198.6 PLM NOB	<input type="checkbox"/>			
			ABBNY	NY ELAP 198.4 TEM NOB	<input type="checkbox"/>			
Water						Matrix Other		
ABHE	EPA 100.2	<input type="checkbox"/>				<input type="checkbox"/>		

** Available on 24-hr. to 5-day TAT

Turn Around Times	3 HR (4 HR TEM) <input type="checkbox"/>	6 HR (8HR TEM) <input type="checkbox"/>	12 HR <input type="checkbox"/>	1 Day <input type="checkbox"/>
	<input type="checkbox"/> 2 Days	<input type="checkbox"/> 3 Days	<input checked="" type="checkbox"/> 4 Days	<input type="checkbox"/> 5 Days

Special Instructions

Sample #	Sample Identification/Location	Volume or Area	Sample Date	Flow Rate*	Start - Stop Time*
1A	Insulation Bldg 10 Crawlspace				
2A	Insulation Debris Bldg 10 Crawlspace				
3A	Insulation on Steam line Bldg 20				
3B	" "				
4A	Insulation on Steam line Bldg 40				
4B	" "				
5A	Insulation Debris Bldg 50				
6A	Insulation Debris Bldg 30				
7A	Steam Line Bldg 50				
8A	Debris - Bldg 100 Crawlspace				
8B	" "				
9A	Insulation in above Ground Boiler Rooms Wood Bldgs				

Relinquished by	Date	Time	Received by	Date	Time
	4/1/2022		ZAO	4/4/22	10:52

If no technician is provided, then the primary contact for your account will be selected. Unless scheduled, the turnaround time for all samples received after 3 pm EST will be logged in the next business day. Weekend or holiday work must be scheduled ahead of time and is charged at 150% of the 3hr TAT or a minimum charge of \$150. A courier charge will be applied for same day and one-day turnaround times for offsite work. SanAir covers Ground and Next Day Air shipping. Shipments billed to SanAir with a faster shipping rate will result in additional charges.

[illegible]

Special Instructions	
-----------------------------	--

Relinquished by	Date	Time	Received by	Date	Time
<i>[Signature]</i>	4/1/2022		<i>[Signature]</i>	4/1/22	10:15

ATTACHMENT #3

Interim Operations & Maintenance Plan

The contractors associated with Galego Court are aware of the presence and location of ACM within the above stated areas. They have been instructed not to disturb the material due to the potential health hazards if fibers become airborne.

1. Notification

All building occupants, also any contractors entering the building and/or premises to perform work, shall be notified of the presence and location of asbestos-containing material(s) and cautioned regarding disturbance of the material(s). Also, the building occupants must be notified regarding the occurrence of asbestos abatement activities. If an emergency fiber release occurs, the following procedures shall be initiated.

2. Fiber Release Episodes

A. Minor Release Episode

If a minor fiber release episode occurs (release of less than 10 linear feet or 25 square feet of material), trained maintenance staff may perform the cleaning. Access to the area shall be restricted during clean-up. All debris shall be thoroughly wetted using amended water and placed in labeled, double six-mil polyethylene bags. The area shall then be cleaned using HEPA filtered vacuums and/or wet cleaning methods. Damaged material must be cleaned and repaired with non-asbestos-containing material. The area shall then be evaluated to decide if further action is necessary.

B. Major Release Episode

If a major fiber release episode occurs (falling or dislodging of more than 10 linear feet or 25 square feet of ACM), the cleaning must be carried out and directed by persons accredited to conduct and design response actions. After such an episode, the area shall be immediately restricted and entry to the area prevented. Warning signs shall be posted to caution people other than those qualified to deal with the problem. Air handling units in the area shall be shut down to prevent the spread of fibers beyond the problem area. A response action shall be designed and carried out by qualified personnel.

3. Training

Any employee who, because of their work, may disturb asbestos-containing material shall be trained and certified as a Competent Person as described by the RI Rules and Regulations for Asbestos Control. The program coordinator shall ensure that the procedures described above to protect the building occupants shall be followed for any operations and maintenance activities disturbing or involving ACM.

ATTACHMENT #4

Scope of Work / Description of Waivers

All proper OSHA, federal, state, and local safety regulations shall be followed.

Request of Waivers:

PHA and ECM are requesting a waiver of pre-abatement air samples for the crawlspace. The area is not meant for long term human occupancy. Due to dirt floor and miscellaneous debris within the space obtaining readable samples is not possible. All individuals entering the crawlspace prior to abatement must wear at a minimum half face respirator with HEPA filters and disposable coveralls.

B.11 (1.16 New Regulations) Alternate Procedures for removal of debris:

All doors, windows, floor drains, vents and other openings to the outside of the building and to areas within the building that do not contain asbestos materials shall be sealed off with 6-mil polyethylene sheeting and waterproof tape.

Negative pressure ventilation units with HEPA filtration shall be operated continuously from the time of barrier construction through the time acceptable final clearance air monitoring results are obtained. These units shall exhaust filtered air to the outside of the building. Filtered air shall not be exhausted to uncontaminated interior spaces.

Once the space is under negative pressure ventilation with all critical barriers installed, debris on floor within the crawlspace must be removed as asbestos containing material (ACM).

B.8.7 (1.14.7 New Regulations) - Glovebag Procedures:

After debris has been removed from the space the contractor shall install floor and wall sheeting.

Floors shall consist of at least one (1) layer of 6-mil polyethylene sheeting.

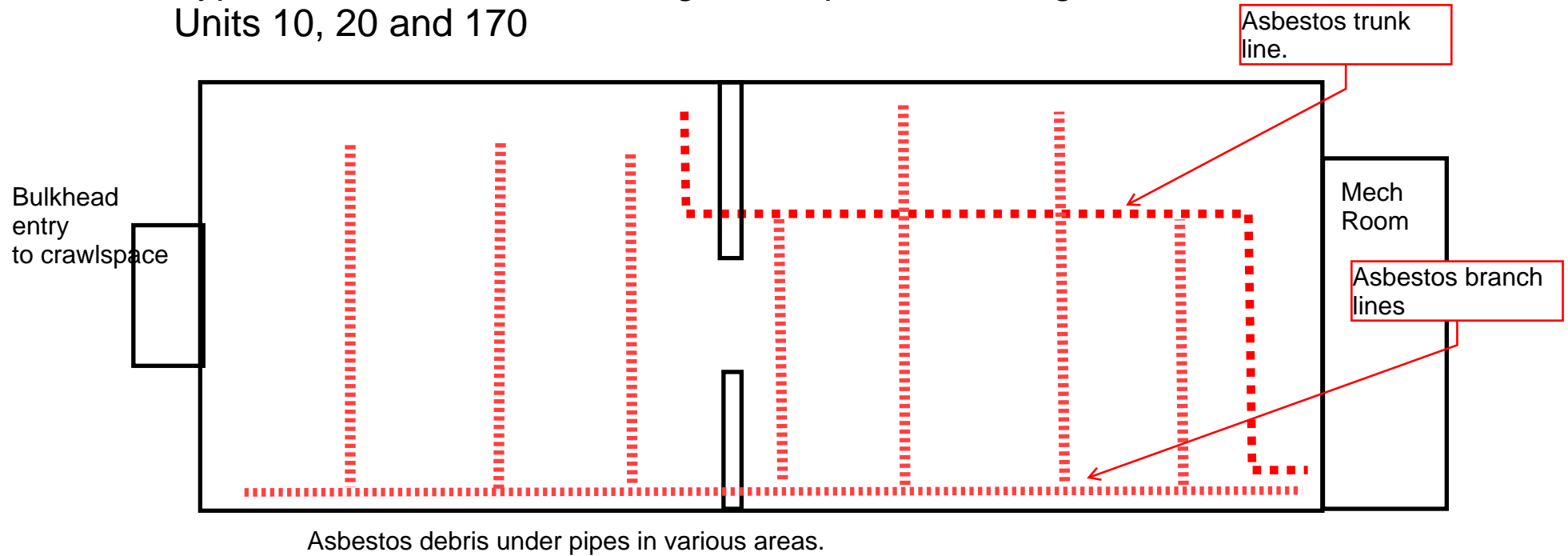
Wall sheeting shall consist of at least one (1) layer of 4-mil polyethylene sheeting.

Pipe insulation will be abated utilizing B.8.7 work procedures.

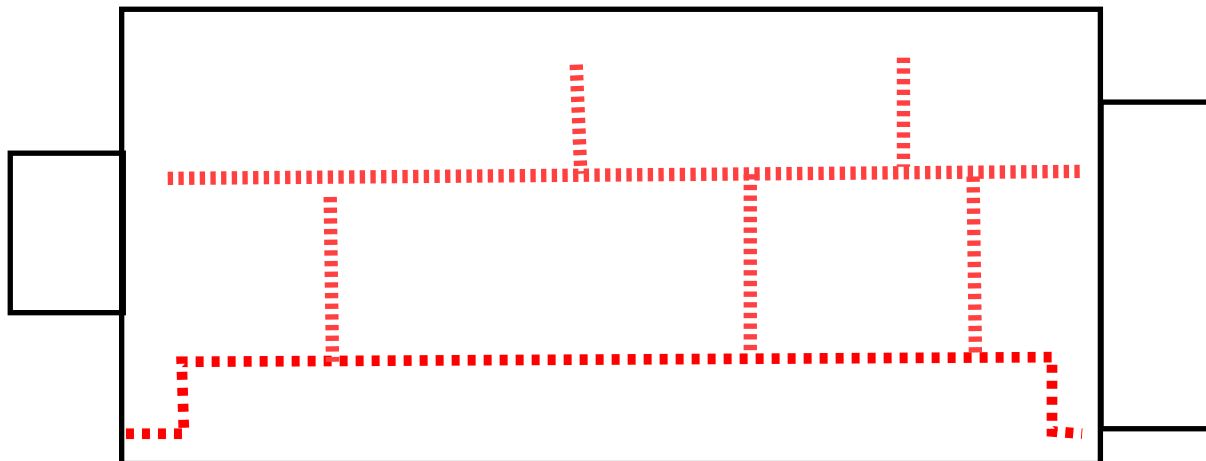
Manufacturer's instructions concerning preparation, sealing, utilization and removal of glovebags must be followed unless the abatement plan and/or these regulations specify more restrictive requirements.

A three chamber worker decontamination enclosure system, in accordance with 29 CFR 1926.58(j), must be available immediately adjacent to the abatement area.

Typical Wood Framed Building Crawlspace - 6 Living Units Units 10, 20 and 170



Typical Wood Framed Building Crawlspace - 3 Living Units (180 and 230)



Asbestos Abatement Plan

Pawtucket Housing Authority Galego Court Building 190-200

Prepared for:

**ESM
1005 Main Street
Pawtucket, RI 02860**

Prepared by:



June 2022

RHODE ISLAND DEPARTMENT OF HEALTH

NOTARIZED CERTIFICATION OF ASBESTOS AMENDED ABATEMENT PLAN

Facility: **Galego Court – Building 190-200**

Address: **483 Weeden Street**

City/Town: **Pawtucket**

Zip: **02860**

Amendment Phase No:

Abatement Plan Written By: **Joseph M. Lepore**

Certification No: **APD00661**

Summary of specific waivers/variances being requested: **Pre-abatement air samples**

Type of Asbestos Abatement ☒ Removal ☐ Enclosure ☐ Encapsulation
☐ Demolition ☒ Glovebag ☐ Asphalt Roofing
☐ Other (specify) _____

Is this plan being submitted in response to a Notice of Violation and/or a Notice of Requirement to Submit an Asbestos Abatement Plan? ☐ Yes ☒ No

If yes, Indicate Notice/Building Evaluation No(s):

Contractor: **To be determined**

License No:

Estimated Starting Date: **07/20/2022**

Pre-Abatement Sampling Information

Bulk Samples Collected By: **Joseph M. Lepore**

Certification No: **AI00661**

Bulk Samples Analyzed By: **San Air Labs.**

Certification No: **PLM00126**

Air Samples Analyzed By: **NA**

Certification No: **NA**

Clearance Air Sampling Information

Air Samples to be Collected By: **ECM Inc. Personal**

Air Samples to be Analyzed By: **ECM Inc.**

Certification No: **PCM00131**

CERTIFICATION

I certify that: this asbestos abatement plan is prepared and submitted under the provisions of Section 23-24.5-6 of the RI Asbestos Control Act and Parts A and C of the RI Rules and Regulations for Asbestos Control; all abatement/management activities performed in conjunction with this plan must be in compliance with the specifications prescribed in this plan (when approved) and the most current revision of all applicable federal and state regulations; and the asbestos abatement/management activities described in this plan must be performed by a RI licensed asbestos abatement contractor.

Certified by: _____

JESSICA A LIRIANO
(Typed/Printed Name of Certifier)

Title: _____

Executive Director

Date: _____

7/13/22

Subscribed and sworn before me this _____

13

day of _____

July

, 20

22

My Commission Expires: _____

2/19/2024

(Notary Public)

AFFIX NOTARY SEAL HERE

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
Department of Health
Office of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

1. Building Owner's Name:

Pawtucket Housing Authority

2. Application Prepared By:

Joseph M. Lepore

RI certification No: **AAC-0661**

Telephone No: **401-304-6614**

3. Building Owner's Mailing Address and Telephone Number:

Street: **214 Roosevelt Ave**

City/Town: **Pawtucket**

Zip: **02860**

Telephone No.: **401-721-6000**

(Area Code, No., Ext.)

4. Person to be contacted regarding this application:

Name: **Nicholas Toth**

Telephone No: **401-721-6044**

(Area Code, No., Ext.)

5. Location where abatement work will be performed:

Name (if applicable): **Building 190-200 Crawlspace and Mechanical Room**

Street: **483 Weeden Street**

City/Town: **Pawtucket**

Zip: **02860**

6. Is this application being submitted in response to a "Notice of Requirement to Submit an Asbestos Abatement plan"? () Yes (X) No

If Yes, what is the due date for submittal of Abatement plan? _____
(Mo.) (Day) (Yr.)

Evaluation Number on the Notice: _____

7. Contractor who will be performing abatement work (if selected):

Name: **To be determined**

R.I. License No.:

8. Estimated Starting Date of Abatement Work

07
(Month)

20
(Day)

2022
(Year)

9. Estimated Completion Date of Abatement Work:

12
(Month)

31
(Day)

2022
(Year)

10. Type of Asbestos Abatement:

(Check all that apply)

☒ Removal

☐ Enclosure

☐ Encapsulation

☐ Demolition

☐ Operations and Maintenance Only

☐ Asphalt Roofing

11. Type of Building:

☐ School

☐ Privately Owned Building

☒ Publicly Owned Building

☐ Residence

☐ Other (Specify) _____

12. Building Access:

☐ Public Access (\geq 25% of Building Area)

☒ Limited Public Access ($<$ 25% of Building Area)

☐ No Public Access

13. Bulk Sample Collection and Analysis:

A. Person collecting bulk samples:

Name: **Joseph M. Lepore**

RI Certification No.: **AI00661**

B. Sampling Methodology:

☐ EPA AHERA Sampling requirements [40 CFR 763.86].

☒ EPA's Asbestos Containing Material in School Buildings: A Guidance Document (EPA-405/2-78-014) or Guidance for Controlling Asbestos Containing Materials – 1985 Edition (EPA-560-5-85-024)

☐ Other (Specify) _____

C. Laboratory performing the analysis of the bulk samples

Name: **San Air Labs**

RI Certification No.: **PLM00126**

D. Analytical Methodology:

☒ EPA Interim Method for the Determination of Asbestos in Bulk Insulation Samples [PLM method only].

☐ Other (Specify) _____

14. Pre-Abatement Air Sample Collection and Analysis:

A. Person collecting pre-abatement air samples:

Name: **NA**

Affiliation: **NA**

B. Laboratory performing analysis of pre-abatement air samples.

Name: **NA**

RI Certification No.: **NA**

C. Methodology used in the collection and analysis of pre-abatement samples:

☒ NIOSH Method 7400 [Most Current Revision]

☐ OSHA 29 CFR 1926.1101 – Appendix A & B

☐ Other (Specify)

15. A. Indicate how the regulated asbestos containing material (RACM) will be removed from the abatement site. If a hauler or broker will be used to transport the RACM to a disposal site, they must also be identified.

To be determined _____

- B. Provide the name and location of the authorized asbestos waste facility to which the removed material will be transferred for disposal (if known).

To be determined _____

16. Person designated as compliance monitor for abatement work. **[NOT REQUIRED]**

Name: **ECM Inc. Personnel**

Affiliation: **Environmental Consulting and Management Inc. (ECM Inc.)**

1. In-Process & Clearance Air Sampling: **See Attachment #1**
 - A. Describe on an attachment the type, number and location of air samples that will be collected outside the work area during the abatement project.
 - B. Describe on an attachment the plan of action to be followed if the Indoor Non-Occupational Air Exposure Standard for Asbestos (0.01 fibers per cubic centimeter) is exceeded outside the work area during the abatement project.
 - C. Describe on an attachment the type, number and location of air samples that will be collected as part of the final clearance testing.
 - D. Describe on an attachment the plan of action to be followed if the Indoor Non-Occupational Air Exposure Standard for Asbestos (0.01 fiber per cubic centimeter) is exceed during final clearance testing.
-

2. A separate and fully completed Form ASB-16A must be submitted for each area to be abated. List below the entry in Item 1 from each attached ASB-16A.

Area 1 –Crawlspace

Area 2- Mechanical Room/Boiler Room

3. I certify that this plan was prepared by me and I am responsible for its content.

Signature:  Date 06 16 2022
(Month) (Day) (Year)
Affiliation: **Environmental Consulting and Management, Inc**

4. ASBESTOS ABATEMENT PLAN APPLICATION FEE:

() Operation & Maintenance Only	\$ 75
() Up to One (1) NESHAP Unit	\$ 75
() Between One (1) & Ten (10) NESHAP Units	\$ 300
() Between Ten (10) & Fifty (50) NESHAP Units	\$ 600
() Over Fifty (50) NESHAP Units	\$ 900
(X) RI State Agency Waived Application Fee	

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Health

Office of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

SUPPLEMENTAL INFORMATION: AREA DESCRIPTION AND PROPOSED REMEDY

BUILDING LOCATION: 483 Weeden Street, Pawtucket, RI – Building 190-200

INSTRUCTIONS: All items on this form must be addressed. All references to attachments must be clearly identified. All attachments must be marked with the specific item numbers on this form to which they pertain.

1. Area Location/Identification (Room Name/No., Evaluation Number, etc.):

Area 1 – Crawlspace

2. Attach a description of each type (e.g. pipe, ceiling, etc.) of regulated asbestos containing material (RACM) in this area, including condition, location, quantity and asbestos content. Attach a copy of the laboratory report(s) for all samples. (NOTE: All laboratory reports must include the name of the building(s) and the location(s) of the sample(s).

Refer to Attachment #2

3. Attach a current scale drawing of this area, showing direction of North and East, which has been clearly annotated to show the type, location and quantity of all RACM in this area. This drawing must include a legend which acts as a guide to the scale, symbols and nomenclature used in the drawing. If a master plan or multiple drawings are provided, indicate the specific location(s) and drawing number(s) which depict this area. The location of the decontamination chamber must also be so indicated on the appropriate drawing(s).

Refer to Attached Building Drawing

4. PROPOSED REMEDIES:

- A. Attach a description of the interim Operations and Maintenance Plan that will be implemented in accordance with C.1.2 (b).

Refer to Attachment #3

(4) PROPOSED REMEDIES (cont.):

B. Will any portion of this area be abated by use of B.8 work procedures?

☒ Yes ☐ No

If Yes, indicate below which RACM in this area will be abated by use of the following B.8 work procedures:

B.8.2 & B.8.3 [REMOVAL]

B.8.2 & B.8.4 [ENCAPSULATION]

B.8.2 & B.8.5 [ENCLOSURE]

B.8.6 [DEMOLITION]

B.8.7 [GLOVEBAG] **Pipe insulation**

B.8.8 [ASP. ROOFING]

C. Are you requesting any waivers to the above selected B.8 procedure for any of the abatement activities in this area?

☒ Yes ☐ No **Pre-abatement air sampling**

If yes, attach a detailed description of the waivers requested you are proposing to utilize.

All items must be keyed to the specific section(s) of the regulations for which waivers are requested.

D. Are you proposing alternative procedures under B.11 for any of the abatement activities in this area?

☒ Yes ☐ No **See Attachment 4**

If yes, attach a detailed description of the alternate procedures requested you are proposing to utilize. Alternate procedures must include a justification for not following specific

section(s) of the regulations and be as protective of public health.

E. Will any RACM remain in this area after abatement?

☐ Yes ☐ No ☒ Beyond scope of inspection

If Yes, attach a description of the RACM that will remain and the details of the on-going Operations and Maintenance Plan that will be implemented in accordance with C.1.2(b).

AGENCY USE ONLY

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Health

Office of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

SUPPLEMENTAL INFORMATION: AREA DESCRIPTION AND PROPOSED REMEDY

BUILDING LOCATION: **483 Weeden Street, Pawtucket, RI – Building 190-200**

INSTRUCTIONS: All items on this form must be addressed. All references to attachments must be clearly identified. All attachments must be marked with the specific item numbers on this form to which they pertain.

5. Area Location/Identification (Room Name/No., Evaluation Number, etc.):

Area 2 – Mechanical Room/Boiler Room

6. Attach a description of each type (e.g. pipe, ceiling, etc.) of regulated asbestos containing material (RACM) in this area, including condition, location, quantity and asbestos content. Attach a copy of the laboratory report(s) for all samples. (NOTE: All laboratory reports must include the name of the building(s) and the location(s) of the sample(s).

Refer to Attachment #2

7. Attach a current scale drawing of this area, showing direction of North and East, which has been clearly annotated to show the type, location and quantity of all RACM in this area. This drawing must include a legend which acts as a guide to the scale, symbols and nomenclature used in the drawing. If a master plan or multiple drawings are provided, indicate the specific location(s) and drawing number(s) which depict this area. The location of the decontamination chamber must also be so indicated on the appropriate drawing(s).

Refer to Attached Building Drawing

8. PROPOSED REMEDIES:

F. Attach a description of the interim Operations and Maintenance Plan that will be implemented in accordance with C.1.2 (b).

Refer to Attachment #3

(4) PROPOSED REMEDIES (cont.):

G. Will any portion of this area be abated by use of B.8 work procedures?

☒ Yes ☐ No

If Yes, indicate below which RACM in this area will be abated by use of the following B.8 work procedures:

B.8.2 & B.8.3 [REMOVAL]

B.8.2 & B.8.4 [ENCAPSULATION]

B.8.2 & B.8.5 [ENCLOSURE]

B.8.6 [DEMOLITION]

B.8.7 [GLOVEBAG] **Pipe insulation**

B.8.8 [ASP. ROOFING]

H. Are you requesting any waivers to the above selected B.8 procedure for any of the abatement activities in this area?

☒ Yes ☐ No **Pre-abatement air sampling**

If yes, attach a detailed description of the waivers requested you are proposing to utilize.

All items must be keyed to the specific section(s) of the regulations for which waivers are requested.

I. Are you proposing alternative procedures under B.11 for any of the abatement activities in this area?

☐ Yes ☒ No

If yes, attach a detailed description of the alternate procedures requested you are proposing to utilize. Alternate procedures must include a justification for not following specific

section(s) of the regulations and be as protective of public health.

J. Will any RACM remain in this area after abatement?

☐ Yes ☐ No ☒ Beyond scope of inspection

If Yes, attach a description of the RACM that will remain and the details of the on-going Operations and Maintenance Plan that will be implemented in accordance with C.1.2(b).

AGENCY USE ONLY

ATTACHMENT #1

In Process and Clearance Air Sampling

- A. If requested by the building owner, ECM will be on site for part time monitoring and will collect one compliance air sample outside the containment area daily for the duration of asbestos removal operations inside this building. The sample will be collected outside the decontamination unit.
- B. Any deviation in proper procedures on the part of the contractor shall be reported to the building owner. This includes inadequate paperwork on site, disagreement and/or any deviation from previously outlined work procedures, or if compliance samples in the work area vicinity exceed 0.01 f/cc. The contractor's work shall then be stopped, without repercussion to the building owner or the project-monitoring firm until any conflicts and/or problems have been resolved.
- C. After the interior areas have passed the consultant's visual inspection, he or his authorized representative will collect the following air samples and the corresponding required blanks:
 - Area 1 – A minimum of 4 PCM clearance air samples will be collected from the crawlspace.**
 - Area 2 – A minimum of 2 PCM clearance air samples will be collected from the mechanical/boiler room.**
- D. If clearance monitoring after clean-up results in fiber concentrations in excess of the RI rules and regulation clearance air requirements, the project area shall be wet-cleaned, misted with water, and encapsulated with a liquid encapsulant. A period of no less than 24 hours shall elapse before the next set of clearance air samples can be collected. The sampling process shall be repeated until a satisfactory clearance air level is attained.

The asbestos contractor is held responsible for any costs associated with the re-cleaning and re-sampling of an area should clearance air samples exceed 0.01 f/cc.

ATTACHMENT #2

ASB-16A-2

POSITIVE ASBESTOS CONTAINING MATERIALS:

There is approximately 600lf of asbestos containing pipe insulation located within the crawlspace and boiler room of building 190-200.

Visible pipe insulation debris was observed on the dirt floor within the crawlspace.

It is the contractor's responsibility to verify all quantities.

ATTACHMENT #2

(Continued)

1. Bulk Sample Results



Analysis Report
prepared for
Environmental Consulting & Management Inc

Report Date: 4/11/2022

Project Name: Galego Court - Crawlspace

Project #: 220155

SanAir ID#: 22016284



NVLAP LAB CODE 200870-0

10501 Trade Court | North Chesterfield, Virginia 23236
888.895.1177 | 804.897.1177 | fax: 804.897.0070 | IAQ@SanAir.com | SanAir.com



SanAir ID Number

22016284

FINAL REPORT

4/11/2022 10:17:12 AM

Name: Environmental Consulting & Management Inc
Address: 50 Kickemuit Ave
Bristol, RI 02809
Phone: 401-438-1360

Project Number: 220155

P.O. Number:

Project Name: Galego Court - Crawlspace

Collected Date: 4/1/2022

Received Date: 4/4/2022 10:15:00 AM

Dear Joseph M. Lepore,

We at SanAir would like to thank you for the work you recently submitted. The 17 sample(s) were received on Monday, April 04, 2022 via UPS. The final report(s) is enclosed for the following sample(s): 1A, 2A, 3A, 3B, 4A, 4B, 5A, 6A, 7A, 8A, 8B, 9A, 9B, 9C, 10A, 10B, 11A.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

A handwritten signature in black ink that reads "Sandra Sobrino". The signature is written in a cursive, flowing style.

Sandra Sobrino
Asbestos & Materials Laboratory Manager
SanAir Technologies Laboratory

Final Report Includes:

- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

Sample conditions:

- 17 samples in Good condition.



SanAir ID Number
22016284
FINAL REPORT
4/11/2022 10:17:12 AM

Name: Environmental Consulting & Management Inc
Address: 50 Kickemuit Ave
Bristol, RI 02809
Phone: 401-438-1360

Project Number: 220155
P.O. Number:
Project Name: Galego Court - Crawlspace
Collected Date: 4/1/2022
Received Date: 4/4/2022 10:15:00 AM

Analyst: Moore, Brandi

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
1A / 22016284-001 Insulation Bldg 10 Crawlspace	White Non-Fibrous Homogeneous		80% Other	15% Chrysotile 5% Amosite
2A / 22016284-002 Insulation Debris Bld 10 Crawlspace	White Non-Fibrous Homogeneous	10% Cellulose	70% Other	15% Chrysotile 5% Amosite
3A / 22016284-003 Insulation On Steam Line Bldg 20	White Non-Fibrous Heterogeneous	5% Cellulose	82% Other	10% Amosite 3% Chrysotile
3B / 22016284-004 Insulation On Steam Line Bldg 20	White Non-Fibrous Heterogeneous	5% Cellulose	80% Other	10% Amosite 5% Chrysotile
4A / 22016284-005 Insulation On Steam Line Bldg 40	White Non-Fibrous Heterogeneous		85% Other	10% Amosite 5% Chrysotile
4B / 22016284-006 Insulation On Steam Line Bldg 40	White Non-Fibrous Homogeneous		84% Other	8% Amosite 8% Chrysotile
5A / 22016284-007 Insulation Debris Bldg 50	Grey Fibrous Homogeneous	15% Cellulose	63% Other	15% Amosite 7% Chrysotile
6A / 22016284-008 Insulation Debris Bldg 30	Grey Fibrous Homogeneous		40% Other	60% Chrysotile
7A / 22016284-009 Steam Line Bldg 50	White Non-Fibrous Homogeneous		70% Other	20% Chrysotile 10% Amosite
8A / 22016284-010 Debris - Bldg 100 Crawlspace	Grey Fibrous Homogeneous		40% Other	60% Chrysotile

Analyst: *Brandi Moore*

Approved Signatory: *Jonathan Wilson*

Analysis Date: 4/11/2022

Date: 4/11/2022



SanAir ID Number

22016284

FINAL REPORT

4/11/2022 10:17:12 AM

Name: Environmental Consulting & Management Inc
Address: 50 Kickemuit Ave
Bristol, RI 02809
Phone: 401-438-1360

Project Number: 220155**P.O. Number:****Project Name:** Galego Court - Crawlspace**Collected Date:** 4/1/2022**Received Date:** 4/4/2022 10:15:00 AM

Analyst: Moore, Brandi

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
8B / 22016284-011 Debris - Bldg 100 Crawlspace	White Non-Fibrous Heterogeneous		80% Other	10% Chrysotile 10% Amosite
9A / 22016284-012 Insulation In Above Ground Boiler Rooms Wood Bldgs, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
9A / 22016284-012 Insulation In Above Ground Boiler Rooms Wood Bldgs, Wrap	White Non-Fibrous Heterogeneous	30% Cellulose 15% Glass	55% Other	None Detected
9B / 22016284-013 Insulation Wood Bldg Boiler Rooms, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
9B / 22016284-013 Insulation Wood Bldg Boiler Rooms, Wrap	White Non-Fibrous Heterogeneous	30% Cellulose	70% Other	None Detected
9C / 22016284-014 Insulation Wood Bldg Boiler Rooms, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
9C / 22016284-014 Insulation Wood Bldg Boiler Rooms, Wrap	White Non-Fibrous Heterogeneous	30% Cellulose 15% Glass	55% Other	None Detected
10A / 22016284-015 Breaching On New Furnaces - Bldg 30, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
10A / 22016284-015 Breaching On New Furnaces - Bldg 30, Wrap	White Fibrous Heterogeneous	85% Glass	15% Other	None Detected
10B / 22016284-016 Breaching On New Furnaces - Bldg 30, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected

Analyst: *Brandi Moore*Approved Signatory: *Jonathan Wilson*

Analysis Date: 4/11/2022

Date: 4/11/2022



SanAir ID Number

22016284

FINAL REPORT

4/11/2022 10:17:12 AM

Name: Environmental Consulting & Management Inc
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Received Date: 4/4/2022 10:15:00 AM

Analyst: Moore, Brandi

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
10B / 22016284-016 Breaching On New Furnaces - Bldg 30, Wrap	White Fibrous Heterogeneous	85% Glass	15% Other	None Detected
11A / 22016284-017 Wallboard Bldg 20 Boiler Room, Wallboard	Grey Non-Fibrous Homogeneous	5% Cellulose	95% Other	None Detected
11A / 22016284-017 Wallboard Bldg 20 Boiler Room, Joint Compound	White Non-Fibrous Homogeneous		100% Other	None Detected

Analyst:

Brandi Moore

Approved Signatory:

Johnathan Wilson

Analysis Date: 4/11/2022

Date: 4/11/2022

Disclaimer

This report is the sole property of the client named on the SanAir Technologies Laboratory chain-of-custody (COC). Results in the report are confidential information intended only for the use by the customer listed on the COC. Neither results nor reports will be discussed with or released to any third party without our client's written permission. The final report shall not be reproduced except in full without written approval of the laboratory to assure that parts of the report are not taken out of context. The information provided in this report applies only to the samples submitted and is relevant only for the date, time, and location of sampling. The accuracy of the results is dependent upon the client's sampling procedure and information provided to the laboratory by the client. SanAir assumes no responsibility for the sampling procedure and will provide evaluation reports based solely on the sample(s) in the condition in which they arrived at the laboratory and information provided by the client on the COC, such as: project number, project name, collection dates, po number, special instructions, samples collected by, sample numbers, sample identifications, sample type, selected analysis type, flow rate, total volume or area, and start stop times that may affect the validity of the results in this report. Samples were received in good condition unless otherwise noted on the report. SanAir assumes no responsibility or liability for the manner in which the results are used or interpreted. This report does not constitute and shall not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any other U.S. governmental agencies and may not be certified by every local, state, and federal regulatory agencies.

Samples are held for a period of 60 days. Fibers smaller than 5 microns cannot be seen with this method due to scope limitations.

For NY state samples, method EPA 600/M4-82-020 is performed.

NYELAP Disclaimer:

Polarized- light microscopy is not consistently reliable in detecting asbestos in floor covering and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

Asbestos Certifications

NVLAP lab code 200870-0

City of Philadelphia: ALL-460

PA Department of Environmental Protection Number: 68-05397

California License Number: 2915

Colorado License Number: AL-23143

Connecticut License Number: PH-0105

Massachusetts License Number: AA000222

Maine License Number: LB-0075, LA-0084

New York ELAP lab ID: 11983

Rhode Island License Number: PCM00126, PLM00126, TEM00126

Texas Department of State Health Services License Number: 300440

Commonwealth of Virginia 3333000323

Washington State License Number: C989

West Virginia License Number: LT000616

Vermont License: AL166318

Louisiana Department of Environmental Quality: 212253, Cert 05088

Revision Date: 8/14/2020



10501 Trade Ct., Suite 100
N. Chesterfield, VA 23236
804.897.1177 / 888.895.1177
Fax 804.897.0070
sanair.com

Asbestos
Chain of Custody
Form 140, Rev 6, 1/26/2022

SanAir ID Number

22016284

Company: Environmental Consulting & Management Inc	Project #: 220155	Collected by: Joe Lepore
Address: 50 Kickemuit Ave	Project Name: Galego Court - Crawlspace	Phone #: 401-438-1380
City, St., Zip: Bristol, RI 02809	Date Collected: 4/1/2022	Fax #: 401-438-1316
State of Collection: RI Account#: 2667	P.O. Number:	Email: JLepore@ECMNE.com

Bulk			Air			Soil		
ABB	PLM EPA 600/R-93/116	<input checked="" type="checkbox"/>	ABA	PCM NIOSH 7400	<input type="checkbox"/>	ABSE	PLM EPA 600/R-93/116 (Qual.)	<input type="checkbox"/>
	Positive Stop	<input type="checkbox"/>	ABA-2	OSHA w/ TWA*	<input type="checkbox"/>	Soil		
ABEPA	PLM EPA 400 Point Count	<input type="checkbox"/>	ABTEM	TEM AHERA	<input type="checkbox"/>	ABSP	PLM CARB 435 (LOD <1%)	<input type="checkbox"/>
ABB1K	PLM EPA 1000 Point Count	<input type="checkbox"/>	ABATN	TEM NIOSH 7402	<input type="checkbox"/>	ABSP1	PLM CARB 435 (LOD 0.25%)	<input type="checkbox"/>
ABBN	PLM EPA NOB**	<input type="checkbox"/>	ABT2	TEM Level II	<input type="checkbox"/>	ABSP2	PLM CARB 435 (LOD 0.1%)	<input type="checkbox"/>
ABBCH	TEM Chatfield**	<input type="checkbox"/>	Other:		<input type="checkbox"/>	Dust		
ABBTM	TEM EPA NOB**	<input type="checkbox"/>	New York ELAP			ABWA	TEM Wipe ASTM D-6480	<input type="checkbox"/>
ABQ	PLM Qualitative	<input type="checkbox"/>	ABEPA2	NY ELAP 198.1	<input type="checkbox"/>	ABDMV	TEM Microvac ASTM D-5755	<input type="checkbox"/>
			ABENY	NY ELAP 198.6 PLM NOB	<input type="checkbox"/>			
			ABBNY	NY ELAP 198.4 TEM NOB	<input type="checkbox"/>			
Water						Matrix Other		
ABHE	EPA 100.2	<input type="checkbox"/>				<input type="checkbox"/>		

** Available on 24-hr. to 5-day TAT

Turn Around Times	3 HR (4 HR TEM) <input type="checkbox"/>	6 HR (8HR TEM) <input type="checkbox"/>	12 HR <input type="checkbox"/>	1 Day <input type="checkbox"/>
	<input type="checkbox"/> 2 Days	<input type="checkbox"/> 3 Days	<input checked="" type="checkbox"/> 4 Days	<input type="checkbox"/> 5 Days

Special Instructions



Sample #	Sample Identification/Location	Volume or Area	Sample Date	Flow Rate*	Start - Stop Time*
1A	Insulation Bldg 10 Crawlspace				
2A	Insulation Debris Bldg 10 Crawlspace				
3A	Insulation on Steam line Bldg 20				
3B	" "				
4A	Insulation on Steam line Bldg 40				
4B	" "				
5A	Insulation Debris Bldg 50				
6A	Insulation Debris Bldg 30				
7A	Steam Line Bldg 50				
8A	Debris - Bldg 100 Crawlspace				
8B	" "				
9A	Insulation in above Ground Boiler Rooms Wood Bldgs				

Relinquished by	Date	Time	Received by	Date	Time
	4/1/2022		ZAO	4/4/22	10:52

If no technician is provided, then the primary contact for your account will be selected. Unless scheduled, the turnaround time for all samples received after 3 pm EST will be logged in the next business day. Weekend or holiday work must be scheduled ahead of time and is charged at 150% of the 3hr TAT or a minimum charge of \$150. A courier charge will be applied for same day and one-day turnaround times for offsite work. SanAir covers Ground and Next Day Air shipping. Shipments billed to SanAir with a faster shipping rate will result in additional charges.

[illegible]

Special Instructions	
-----------------------------	--

Relinquished by	Date	Time	Received by	Date	Time
	4/1/2022			4/1/22	10:15

ATTACHMENT #3

Interim Operations & Maintenance Plan

The contractors associated with Galego Court are aware of the presence and location of ACM within the above stated areas. They have been instructed not to disturb the material due to the potential health hazards if fibers become airborne.

1. Notification

All building occupants, also any contractors entering the building and/or premises to perform work, shall be notified of the presence and location of asbestos-containing material(s) and cautioned regarding disturbance of the material(s). Also, the building occupants must be notified regarding the occurrence of asbestos abatement activities. If an emergency fiber release occurs, the following procedures shall be initiated.

2. Fiber Release Episodes

A. Minor Release Episode

If a minor fiber release episode occurs (release of less than 10 linear feet or 25 square feet of material), trained maintenance staff may perform the cleaning. Access to the area shall be restricted during clean-up. All debris shall be thoroughly wetted using amended water and placed in labeled, double six-mil polyethylene bags. The area shall then be cleaned using HEPA filtered vacuums and/or wet cleaning methods. Damaged material must be cleaned and repaired with non-asbestos-containing material. The area shall then be evaluated to decide if further action is necessary.

B. Major Release Episode

If a major fiber release episode occurs (falling or dislodging of more than 10 linear feet or 25 square feet of ACM), the cleaning must be carried out and directed by persons accredited to conduct and design response actions. After such an episode, the area shall be immediately restricted and entry to the area prevented. Warning signs shall be posted to caution people other than those qualified to deal with the problem. Air handling units in the area shall be shut down to prevent the spread of fibers beyond the problem area. A response action shall be designed and carried out by qualified personnel.

3. Training

Any employee who, because of their work, may disturb asbestos-containing material shall be trained and certified as a Competent Person as described by the RI Rules and Regulations for Asbestos Control. The program coordinator shall ensure that the procedures described above to protect the building occupants shall be followed for any operations and maintenance activities disturbing or involving ACM.

ATTACHMENT #4

Scope of Work / Description of Waivers

All proper OSHA, federal, state, and local safety regulations shall be followed.

Request of Waivers:

PHA and ECM are requesting a waiver of pre-abatement air samples for the crawlspace. The area is not meant for long term human occupancy. Due to dirt floor and miscellaneous debris within the space obtaining readable samples is not possible. All individuals entering the crawlspace prior to abatement must wear at a minimum half face respirator with HEPA filters and disposable coveralls.

Area 1:

B.11 (1.16 New Regulations) Alternate Procedures for removal of debris:

All doors, windows, floor drains, vents and other openings to the outside of the building and to areas within the building that do not contain asbestos materials shall be sealed off with 6-mil polyethylene sheeting and waterproof tape.

Negative pressure ventilation units with HEPA filtration shall be operated continuously from the time of barrier construction through the time acceptable final clearance air monitoring results are obtained. These units shall exhaust filtered air to the outside of the building. Filtered air shall not be exhausted to uncontaminated interior spaces.

Once the space is under negative pressure ventilation with all critical barriers installed, debris on floor within the crawlspace must be removed as asbestos containing material (ACM).

B.8.7 (1.14.7 New Regulations) - Glovebag Procedures:

After debris has been removed from the space the contractor shall install floor and wall sheeting.

Floors shall consist of at least one (1) layer of 6-mil polyethylene sheeting.

Wall sheeting shall consist of at least one (1) layer of 4-mil polyethylene sheeting.

Pipe insulation will be abated utilizing B.8.7 work procedures.

Manufacturer's instructions concerning preparation, sealing, utilization and removal of glovebags must be followed unless the abatement plan and/or these regulations specify more restrictive requirements.

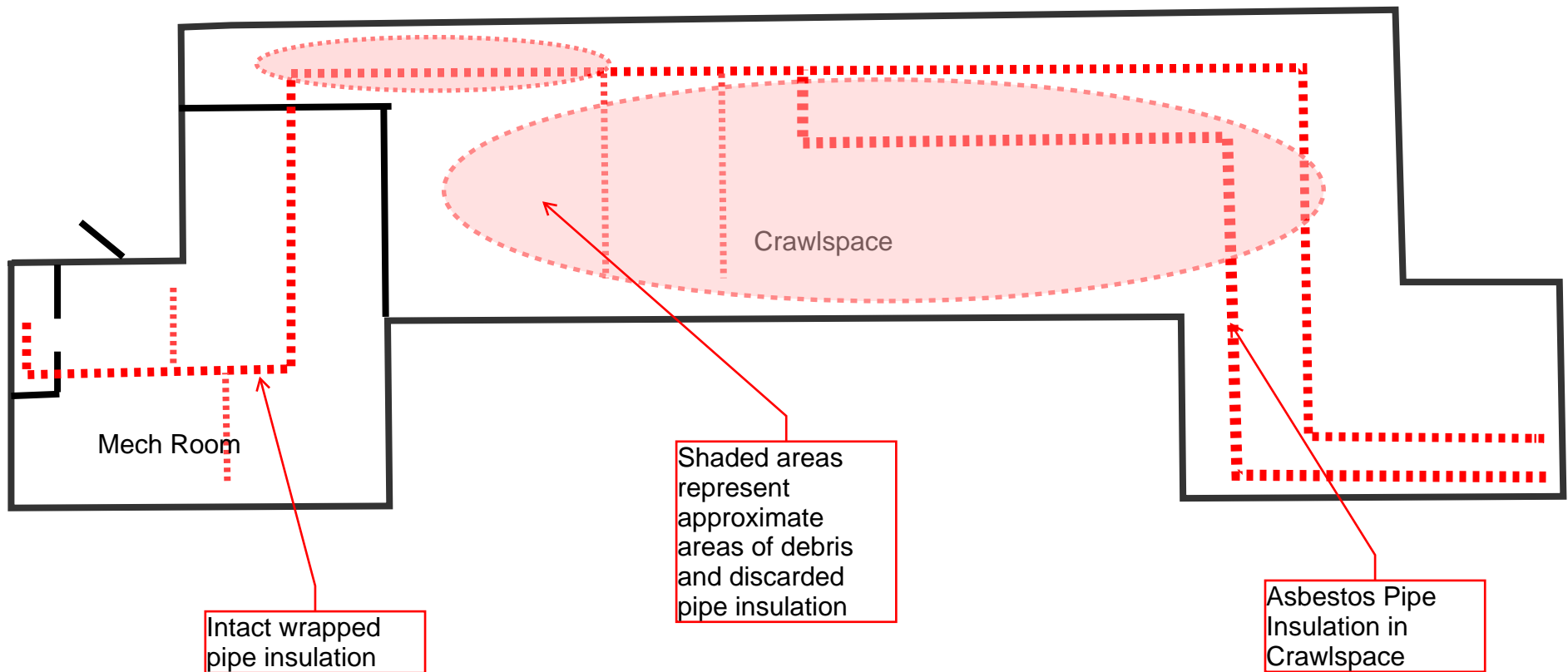
A three chamber worker decontamination enclosure system, in accordance with 29 CFR 1926.58(j), must be available immediately adjacent to the abatement area.

Area 2:

All pipe insulation located in the Mechanical Room/Boiler Room will be abated utilizing B.8.7 Glovebag Procedures.

Typical Brick Building Crawlspace and Mechanical Room

Buildings; 30-40, 50-60, 80-90, 100-110, 130-140
150-160, 190-200, 210-220



Asbestos Abatement Plan

Pawtucket Housing Authority Galego Court Building 210-220

Prepared for:

**ESM
1005 Main Street
Pawtucket, RI 02860**

Prepared by:



June 2022

RHODE ISLAND DEPARTMENT OF HEALTH

NOTARIZED CERTIFICATION OF ASBESTOS AMENDED ABATEMENT PLAN

Facility: **Galego Court – Building 210-220**

Address: **483 Weeden Street**

City/Town: **Pawtucket**

Zip: **02860**

Amendment Phase No:

Abatement Plan Written By: **Joseph M. Lepore**

Certification No: **APD00661**

Summary of specific waivers/variances being requested: **Pre-abatement air samples**

Type of Asbestos Abatement ☒ Removal ☐ Enclosure ☐ Encapsulation
☐ Demolition ☒ Glovebag ☐ Asphalt Roofing
☐ Other (specify) _____

Is this plan being submitted in response to a Notice of Violation and/or a Notice of Requirement to Submit an Asbestos Abatement Plan? ☐ Yes ☒ No

If yes, Indicate Notice/Building Evaluation No(s):

Contractor: **To be determined**

License No:

Estimated Starting Date: **07/20/2022**

Pre-Abatement Sampling Information

Bulk Samples Collected By: **Joseph M. Lepore**

Certification No: **AI00661**

Bulk Samples Analyzed By: **San Air Labs.**

Certification No: **PLM00126**

Air Samples Analyzed By: **NA**

Certification No: **NA**

Clearance Air Sampling Information

Air Samples to be Collected By: **ECM Inc. Personal**

Air Samples to be Analyzed By: **ECM Inc.**

Certification No: **PCM00131**

CERTIFICATION

I certify that: this asbestos abatement plan is prepared and submitted under the provisions of Section 23-24.5-6 of the RI Asbestos Control Act and Parts A and C of the RI Rules and Regulations for Asbestos Control; all abatement/management activities performed in conjunction with this plan must be in compliance with the specifications prescribed in this plan (when approved) and the most current revision of all applicable federal and state regulations; and the asbestos abatement/management activities described in this plan must be performed by a RI licensed asbestos abatement contractor.

Certified by:  Title: Executive Director
(Signature of Building Owner or Agent)
JESSICA A LIRIANO Date: 7/13/22
(Typed/Printed Name of Certifier)
NOTARY PUBLIC
Subscribed and sworn to before me on this 13 day of July, 20 22
STATE OF RHODE ISLAND
My Commission Expires: 2/19/2024

(Notary Public)

AFFIX NOTARY SEAL HERE

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
Department of Health
Office of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

1. Building Owner's Name:

Pawtucket Housing Authority

2. Application Prepared By:

Joseph M. Lepore

RI certification No: **AAC-0661**

Telephone No: **401-304-6614**

3. Building Owner's Mailing Address and Telephone Number:

Street: **214 Roosevelt Ave**

City/Town: **Pawtucket**

Zip: **02860**

Telephone No.: **401-721-6000**

(Area Code, No., Ext.)

4. Person to be contacted regarding this application:

Name: **Nicholas Toth**

Telephone No: **401-721-6044**

(Area Code, No., Ext.)

5. Location where abatement work will be performed:

Name (if applicable): **Building 210-220 Crawlspace and Mechanical Room**

Street: **483 Weeden Street**

City/Town: **Pawtucket**

Zip: **02860**

6. Is this application being submitted in response to a "Notice of Requirement to Submit an Asbestos Abatement plan"? () Yes (X) No

If Yes, what is the due date for submittal of Abatement plan? _____
(Mo.) (Day) (Yr.)

Evaluation Number on the Notice: _____

7. Contractor who will be performing abatement work (if selected):

Name: **To be determined**

R.I. License No.:

8. Estimated Starting Date of Abatement Work

07
(Month)

20
(Day)

2022
(Year)

9. Estimated Completion Date of Abatement Work:

12
(Month)

31
(Day)

2022
(Year)

10. Type of Asbestos Abatement:

(Check all that apply)

☒ Removal

☐ Enclosure

☐ Encapsulation

☐ Demolition

☐ Operations and Maintenance Only

☐ Asphalt Roofing

11. Type of Building:

☐ School

☐ Privately Owned Building

☒ Publicly Owned Building

☐ Residence

☐ Other (Specify) _____

12. Building Access:

☐ Public Access (\geq 25% of Building Area)

☒ Limited Public Access ($<$ 25% of Building Area)

☐ No Public Access

13. Bulk Sample Collection and Analysis:

A. Person collecting bulk samples:

Name: **Joseph M. Lepore**

RI Certification No.: **AI00661**

B. Sampling Methodology:

☐ EPA AHERA Sampling requirements [40 CFR 763.86].

☒ EPA's Asbestos Containing Material in School Buildings: A Guidance Document (EPA-405/2-78-014) or Guidance for Controlling Asbestos Containing Materials – 1985 Edition (EPA-560-5-85-024)

☐ Other (Specify) _____

C. Laboratory performing the analysis of the bulk samples

Name: **San Air Labs**

RI Certification No.: **PLM00126**

D. Analytical Methodology:

☒ EPA Interim Method for the Determination of Asbestos in Bulk Insulation Samples [PLM method only].

☐ Other (Specify) _____

14. Pre-Abatement Air Sample Collection and Analysis:

A. Person collecting pre-abatement air samples:

Name: **NA**

Affiliation: **NA**

B. Laboratory performing analysis of pre-abatement air samples.

Name: **NA**

RI Certification No.: **NA**

C. Methodology used in the collection and analysis of pre-abatement samples:

☒ NIOSH Method 7400 [Most Current Revision]

☐ OSHA 29 CFR 1926.1101 – Appendix A & B

☐ Other (Specify)

15. A. Indicate how the regulated asbestos containing material (RACM) will be removed from the abatement site. If a hauler or broker will be used to transport the RACM to a disposal site, they must also be identified.

To be determined _____

- B. Provide the name and location of the authorized asbestos waste facility to which the removed material will be transferred for disposal (if known).

To be determined _____

16. Person designated as compliance monitor for abatement work. **[NOT REQUIRED]**

Name: **ECM Inc. Personnel**

Affiliation: **Environmental Consulting and Management Inc. (ECM Inc.)**

1. In-Process & Clearance Air Sampling: **See Attachment #1**
 - A. Describe on an attachment the type, number and location of air samples that will be collected outside the work area during the abatement project.
 - B. Describe on an attachment the plan of action to be followed if the Indoor Non-Occupational Air Exposure Standard for Asbestos (0.01 fibers per cubic centimeter) is exceeded outside the work area during the abatement project.
 - C. Describe on an attachment the type, number and location of air samples that will be collected as part of the final clearance testing.
 - D. Describe on an attachment the plan of action to be followed if the Indoor Non-Occupational Air Exposure Standard for Asbestos (0.01 fiber per cubic centimeter) is exceed during final clearance testing.
-

2. A separate and fully completed Form ASB-16A must be submitted for each area to be abated. List below the entry in Item 1 from each attached ASB-16A.

Area 1 –Crawlspace

Area 2- Mechanical Room/Boiler Room

3. I certify that this plan was prepared by me and I am responsible for its content.

Signature:  Date 06 16 2022
(Month) (Day) (Year)
Affiliation: **Environmental Consulting and Management, Inc**

4. ASBESTOS ABATEMENT PLAN APPLICATION FEE:

- | | |
|--|--------|
| <input type="checkbox"/> Operation & Maintenance Only | \$ 75 |
| <input type="checkbox"/> Up to One (1) NESHAP Unit | \$ 75 |
| <input type="checkbox"/> Between One (1) & Ten (10) NESHAP Units | \$ 300 |
| <input type="checkbox"/> Between Ten (10) & Fifty (50) NESHAP Units | \$ 600 |
| <input type="checkbox"/> Over Fifty (50) NESHAP Units | \$ 900 |
| <input checked="" type="checkbox"/> RI State Agency Waived Application Fee | |

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Health

Office of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

SUPPLEMENTAL INFORMATION: AREA DESCRIPTION AND PROPOSED REMEDY

BUILDING LOCATION: 483 Weeden Street, Pawtucket, RI – Building 210-220

INSTRUCTIONS: All items on this form must be addressed. All references to attachments must be clearly identified. All attachments must be marked with the specific item numbers on this form to which they pertain.

1. Area Location/Identification (Room Name/No., Evaluation Number, etc.):

Area 1 – Crawlspace

2. Attach a description of each type (e.g. pipe, ceiling, etc.) of regulated asbestos containing material (RACM) in this area, including condition, location, quantity and asbestos content. Attach a copy of the laboratory report(s) for all samples. (NOTE: All laboratory reports must include the name of the building(s) and the location(s) of the sample(s).

Refer to Attachment #2

3. Attach a current scale drawing of this area, showing direction of North and East, which has been clearly annotated to show the type, location and quantity of all RACM in this area. This drawing must include a legend which acts as a guide to the scale, symbols and nomenclature used in the drawing. If a master plan or multiple drawings are provided, indicate the specific location(s) and drawing number(s) which depict this area. The location of the decontamination chamber must also be so indicated on the appropriate drawing(s).

Refer to Attached Building Drawing

4. PROPOSED REMEDIES:

- A. Attach a description of the interim Operations and Maintenance Plan that will be implemented in accordance with C.1.2 (b).

Refer to Attachment #3

(4) PROPOSED REMEDIES (cont.):

B. Will any portion of this area be abated by use of B.8 work procedures?

☒ Yes ☐ No

If Yes, indicate below which RACM in this area will be abated by use of the following B.8 work procedures:

B.8.2 & B.8.3 [REMOVAL]

B.8.2 & B.8.4 [ENCAPSULATION]

B.8.2 & B.8.5 [ENCLOSURE]

B.8.6 [DEMOLITION]

B.8.7 [GLOVEBAG] **Pipe insulation**

B.8.8 [ASP. ROOFING]

C. Are you requesting any waivers to the above selected B.8 procedure for any of the abatement activities in this area?

☒ Yes ☐ No **Pre-abatement air sampling**

If yes, attach a detailed description of the waivers requested you are proposing to utilize.

All items must be keyed to the specific section(s) of the regulations for which waivers are requested.

D. Are you proposing alternative procedures under B.11 for any of the abatement activities in this area?

☒ Yes ☐ No **See Attachment 4**

If yes, attach a detailed description of the alternate procedures requested you are proposing to utilize. Alternate procedures must include a justification for not following specific

section(s) of the regulations and be as protective of public health.

E. Will any RACM remain in this area after abatement?

☐ Yes ☐ No ☒ Beyond scope of inspection

If Yes, attach a description of the RACM that will remain and the details of the on-going Operations and Maintenance Plan that will be implemented in accordance with C.1.2(b).

AGENCY USE ONLY

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Health

Office of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

SUPPLEMENTAL INFORMATION: AREA DESCRIPTION AND PROPOSED REMEDY

BUILDING LOCATION: **483 Weeden Street, Pawtucket, RI – Building 210-220**

INSTRUCTIONS: All items on this form must be addressed. All references to attachments must be clearly identified. All attachments must be marked with the specific item numbers on this form to which they pertain.

5. Area Location/Identification (Room Name/No., Evaluation Number, etc.):

Area 2 – Mechanical Room/Boiler Room

6. Attach a description of each type (e.g. pipe, ceiling, etc.) of regulated asbestos containing material (RACM) in this area, including condition, location, quantity and asbestos content. Attach a copy of the laboratory report(s) for all samples. (NOTE: All laboratory reports must include the name of the building(s) and the location(s) of the sample(s).

Refer to Attachment #2

7. Attach a current scale drawing of this area, showing direction of North and East, which has been clearly annotated to show the type, location and quantity of all RACM in this area. This drawing must include a legend which acts as a guide to the scale, symbols and nomenclature used in the drawing. If a master plan or multiple drawings are provided, indicate the specific location(s) and drawing number(s) which depict this area. The location of the decontamination chamber must also be so indicated on the appropriate drawing(s).

Refer to Attached Building Drawing

8. PROPOSED REMEDIES:

F. Attach a description of the interim Operations and Maintenance Plan that will be implemented in accordance with C.1.2 (b).

Refer to Attachment #3

(4) PROPOSED REMEDIES (cont.):

G. Will any portion of this area be abated by use of B.8 work procedures?

☒ Yes ☐ No

If Yes, indicate below which RACM in this area will be abated by use of the following B.8 work procedures:

B.8.2 & B.8.3 [REMOVAL]

B.8.2 & B.8.4 [ENCAPSULATION]

B.8.2 & B.8.5 [ENCLOSURE]

B.8.6 [DEMOLITION]

B.8.7 [GLOVEBAG] **Pipe insulation**

B.8.8 [ASP. ROOFING]

H. Are you requesting any waivers to the above selected B.8 procedure for any of the abatement activities in this area?

☒ Yes ☐ No **Pre-abatement air sampling**

If yes, attach a detailed description of the waivers requested you are proposing to utilize.

All items must be keyed to the specific section(s) of the regulations for which waivers are requested.

I. Are you proposing alternative procedures under B.11 for any of the abatement activities in this area?

☐ Yes ☒ No

If yes, attach a detailed description of the alternate procedures requested you are proposing to utilize. Alternate procedures must include a justification for not following specific

section(s) of the regulations and be as protective of public health.

J. Will any RACM remain in this area after abatement?

☐ Yes ☐ No ☒ Beyond scope of inspection

If Yes, attach a description of the RACM that will remain and the details of the on-going Operations and Maintenance Plan that will be implemented in accordance with C.1.2(b).

AGENCY USE ONLY

ATTACHMENT #1

In Process and Clearance Air Sampling

- A. If requested by the building owner, ECM will be on site for part time monitoring and will collect one compliance air sample outside the containment area daily for the duration of asbestos removal operations inside this building. The sample will be collected outside the decontamination unit.
- B. Any deviation in proper procedures on the part of the contractor shall be reported to the building owner. This includes inadequate paperwork on site, disagreement and/or any deviation from previously outlined work procedures, or if compliance samples in the work area vicinity exceed 0.01 f/cc. The contractor's work shall then be stopped, without repercussion to the building owner or the project-monitoring firm until any conflicts and/or problems have been resolved.
- C. After the interior areas have passed the consultant's visual inspection, he or his authorized representative will collect the following air samples and the corresponding required blanks:
 - Area 1 – A minimum of 4 PCM clearance air samples will be collected from the crawlspace.**
 - Area 2 – A minimum of 2 PCM clearance air samples will be collected from the mechanical/boiler room.**
- D. If clearance monitoring after clean-up results in fiber concentrations in excess of the RI rules and regulation clearance air requirements, the project area shall be wet-cleaned, misted with water, and encapsulated with a liquid encapsulant. A period of no less than 24 hours shall elapse before the next set of clearance air samples can be collected. The sampling process shall be repeated until a satisfactory clearance air level is attained.

The asbestos contractor is held responsible for any costs associated with the re-cleaning and re-sampling of an area should clearance air samples exceed 0.01 f/cc.

ATTACHMENT #2

ASB-16A-2

POSITIVE ASBESTOS CONTAINING MATERIALS:

There is approximately 600lf of asbestos containing pipe insulation located within the crawlspace and boiler room of building 210-220.

Visible pipe insulation debris was observed on the dirt floor within the crawlspace.

It is the contractor's responsibility to verify all quantities.

ATTACHMENT #2

(Continued)

1. Bulk Sample Results



Analysis Report
prepared for
Environmental Consulting & Management Inc

Report Date: 4/11/2022

Project Name: Galego Court - Crawlspace

Project #: 220155

SanAir ID#: 22016284



NVLAP LAB CODE 200870-0

10501 Trade Court | North Chesterfield, Virginia 23236
888.895.1177 | 804.897.1177 | fax: 804.897.0070 | IAQ@SanAir.com | SanAir.com



SanAir ID Number

22016284

FINAL REPORT

4/11/2022 10:17:12 AM

Name: Environmental Consulting & Management Inc
Address: 50 Kickemuit Ave
Bristol, RI 02809
Phone: 401-438-1360

Project Number: 220155

P.O. Number:

Project Name: Galego Court - Crawlspace

Collected Date: 4/1/2022

Received Date: 4/4/2022 10:15:00 AM

Dear Joseph M. Lepore,

We at SanAir would like to thank you for the work you recently submitted. The 17 sample(s) were received on Monday, April 04, 2022 via UPS. The final report(s) is enclosed for the following sample(s): 1A, 2A, 3A, 3B, 4A, 4B, 5A, 6A, 7A, 8A, 8B, 9A, 9B, 9C, 10A, 10B, 11A.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

A handwritten signature in black ink that reads "Sandra Sobrino". The script is fluid and cursive.

Sandra Sobrino
Asbestos & Materials Laboratory Manager
SanAir Technologies Laboratory

Final Report Includes:

- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

Sample conditions:

- 17 samples in Good condition.



SanAir ID Number
22016284
FINAL REPORT
4/11/2022 10:17:12 AM

Name: Environmental Consulting & Management Inc
Address: 50 Kickemuit Ave
Bristol, RI 02809
Phone: 401-438-1360

Project Number: 220155
P.O. Number:
Project Name: Galego Court - Crawlspace
Collected Date: 4/1/2022
Received Date: 4/4/2022 10:15:00 AM

Analyst: Moore, Brandi

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
1A / 22016284-001 Insulation Bldg 10 Crawlspace	White Non-Fibrous Homogeneous		80% Other	15% Chrysotile 5% Amosite
2A / 22016284-002 Insulation Debris Bld 10 Crawlspace	White Non-Fibrous Homogeneous	10% Cellulose	70% Other	15% Chrysotile 5% Amosite
3A / 22016284-003 Insulation On Steam Line Bldg 20	White Non-Fibrous Heterogeneous	5% Cellulose	82% Other	10% Amosite 3% Chrysotile
3B / 22016284-004 Insulation On Steam Line Bldg 20	White Non-Fibrous Heterogeneous	5% Cellulose	80% Other	10% Amosite 5% Chrysotile
4A / 22016284-005 Insulation On Steam Line Bldg 40	White Non-Fibrous Heterogeneous		85% Other	10% Amosite 5% Chrysotile
4B / 22016284-006 Insulation On Steam Line Bldg 40	White Non-Fibrous Homogeneous		84% Other	8% Amosite 8% Chrysotile
5A / 22016284-007 Insulation Debris Bldg 50	Grey Fibrous Homogeneous	15% Cellulose	63% Other	15% Amosite 7% Chrysotile
6A / 22016284-008 Insulation Debris Bldg 30	Grey Fibrous Homogeneous		40% Other	60% Chrysotile
7A / 22016284-009 Steam Line Bldg 50	White Non-Fibrous Homogeneous		70% Other	20% Chrysotile 10% Amosite
8A / 22016284-010 Debris - Bldg 100 Crawlspace	Grey Fibrous Homogeneous		40% Other	60% Chrysotile

Analyst: *Brandi Moore*

Approved Signatory: *Jonathan Wilson*

Analysis Date: 4/11/2022

Date: 4/11/2022



SanAir ID Number

22016284

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4/11/2022 10:17:12 AM

Name: Environmental Consulting & Management Inc
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Project Number: 220155**P.O. Number:****Project Name:** Galego Court - Crawlspace**Collected Date:** 4/1/2022**Received Date:** 4/4/2022 10:15:00 AM

Analyst: Moore, Brandi

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
8B / 22016284-011 Debris - Bldg 100 Crawlspace	White Non-Fibrous Heterogeneous		80% Other	10% Chrysotile 10% Amosite
9A / 22016284-012 Insulation In Above Ground Boiler Rooms Wood Bldgs, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
9A / 22016284-012 Insulation In Above Ground Boiler Rooms Wood Bldgs, Wrap	White Non-Fibrous Heterogeneous	30% Cellulose 15% Glass	55% Other	None Detected
9B / 22016284-013 Insulation Wood Bldg Boiler Rooms, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
9B / 22016284-013 Insulation Wood Bldg Boiler Rooms, Wrap	White Non-Fibrous Heterogeneous	30% Cellulose	70% Other	None Detected
9C / 22016284-014 Insulation Wood Bldg Boiler Rooms, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
9C / 22016284-014 Insulation Wood Bldg Boiler Rooms, Wrap	White Non-Fibrous Heterogeneous	30% Cellulose 15% Glass	55% Other	None Detected
10A / 22016284-015 Breaching On New Furnaces - Bldg 30, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
10A / 22016284-015 Breaching On New Furnaces - Bldg 30, Wrap	White Fibrous Heterogeneous	85% Glass	15% Other	None Detected
10B / 22016284-016 Breaching On New Furnaces - Bldg 30, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected

Analyst: *Brandi Moore*Approved Signatory: *Jonathan Wilson*

Analysis Date: 4/11/2022

Date: 4/11/2022



SanAir ID Number

22016284

FINAL REPORT

4/11/2022 10:17:12 AM

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Phone: 401-438-1360

Project Number: 220155
P.O. Number:
Project Name: Galego Court - Crawlspace
Collected Date: 4/1/2022
Received Date: 4/4/2022 10:15:00 AM

Analyst: Moore, Brandi

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
10B / 22016284-016 Breaching On New Furnaces - Bldg 30, Wrap	White Fibrous Heterogeneous	85% Glass	15% Other	None Detected
11A / 22016284-017 Wallboard Bldg 20 Boiler Room, Wallboard	Grey Non-Fibrous Homogeneous	5% Cellulose	95% Other	None Detected
11A / 22016284-017 Wallboard Bldg 20 Boiler Room, Joint Compound	White Non-Fibrous Homogeneous		100% Other	None Detected

Analyst:

Brandi Moore

Approved Signatory:

Johnathan Wilson

Analysis Date: 4/11/2022

Date: 4/11/2022

Disclaimer

This report is the sole property of the client named on the SanAir Technologies Laboratory chain-of-custody (COC). Results in the report are confidential information intended only for the use by the customer listed on the COC. Neither results nor reports will be discussed with or released to any third party without our client's written permission. The final report shall not be reproduced except in full without written approval of the laboratory to assure that parts of the report are not taken out of context. The information provided in this report applies only to the samples submitted and is relevant only for the date, time, and location of sampling. The accuracy of the results is dependent upon the client's sampling procedure and information provided to the laboratory by the client. SanAir assumes no responsibility for the sampling procedure and will provide evaluation reports based solely on the sample(s) in the condition in which they arrived at the laboratory and information provided by the client on the COC, such as: project number, project name, collection dates, po number, special instructions, samples collected by, sample numbers, sample identifications, sample type, selected analysis type, flow rate, total volume or area, and start stop times that may affect the validity of the results in this report. Samples were received in good condition unless otherwise noted on the report. SanAir assumes no responsibility or liability for the manner in which the results are used or interpreted. This report does not constitute and shall not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any other U.S. governmental agencies and may not be certified by every local, state, and federal regulatory agencies.

Samples are held for a period of 60 days. Fibers smaller than 5 microns cannot be seen with this method due to scope limitations.

For NY state samples, method EPA 600/M4-82-020 is performed.

NYELAP Disclaimer:

Polarized- light microscopy is not consistently reliable in detecting asbestos in floor covering and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

Asbestos Certifications

NVLAP lab code 200870-0

City of Philadelphia: ALL-460

PA Department of Environmental Protection Number: 68-05397

California License Number: 2915

Colorado License Number: AL-23143

Connecticut License Number: PH-0105

Massachusetts License Number: AA000222

Maine License Number: LB-0075, LA-0084

New York ELAP lab ID: 11983

Rhode Island License Number: PCM00126, PLM00126, TEM00126

Texas Department of State Health Services License Number: 300440

Commonwealth of Virginia 3333000323

Washington State License Number: C989

West Virginia License Number: LT000616

Vermont License: AL166318

Louisiana Department of Environmental Quality: 212253, Cert 05088

Revision Date: 8/14/2020



10501 Trade Ct., Suite 100
N. Chesterfield, VA 23236
804.897.1177 / 888.895.1177
Fax 804.897.0070
sanair.com

Asbestos
Chain of Custody
Form 140, Rev 6, 1/26/2022

SanAir ID Number

22016284

Company: Environmental Consulting & Management Inc	Project #: 220155	Collected by: Joe Lepore
Address: 50 Kickemuit Ave	Project Name: Galego Court - Crawlspace	Phone #: 401-438-1380
City, St., Zip: Bristol, RI 02809	Date Collected: 4/1/2022	Fax #: 401-438-1316
State of Collection: RI Account#: 2667	P.O. Number:	Email: JLepore@ECMNE.com

Bulk			Air			Soil		
ABB	PLM EPA 600/R-93/116	<input checked="" type="checkbox"/>	ABA	PCM NIOSH 7400	<input type="checkbox"/>	ABSE	PLM EPA 600/R-93/116 (Qual.)	<input type="checkbox"/>
	Positive Stop	<input type="checkbox"/>	ABA-2	OSHA w/ TWA*	<input type="checkbox"/>	Soil		
ABEPA	PLM EPA 400 Point Count	<input type="checkbox"/>	ABTEM	TEM AHERA	<input type="checkbox"/>	ABSP	PLM CARB 435 (LOD <1%)	<input type="checkbox"/>
ABB1K	PLM EPA 1000 Point Count	<input type="checkbox"/>	ABATN	TEM NIOSH 7402	<input type="checkbox"/>	ABSP1	PLM CARB 435 (LOD 0.25%)	<input type="checkbox"/>
ABBN	PLM EPA NOB**	<input type="checkbox"/>	ABT2	TEM Level II	<input type="checkbox"/>	ABSP2	PLM CARB 435 (LOD 0.1%)	<input type="checkbox"/>
ABBNCH	TEM Chatfield**	<input type="checkbox"/>	Other:		<input type="checkbox"/>	Dust		
ABBTM	TEM EPA NOB**	<input type="checkbox"/>	New York ELAP			ABWA	TEM Wipe ASTM D-6480	<input type="checkbox"/>
ABQ	PLM Qualitative	<input type="checkbox"/>	ABEPA2	NY ELAP 198.1	<input type="checkbox"/>	ABDMV	TEM Microvac ASTM D-5755	<input type="checkbox"/>
			ABENY	NY ELAP 198.6 PLM NOB	<input type="checkbox"/>			
			ABBNY	NY ELAP 198.4 TEM NOB	<input type="checkbox"/>			
Water						Matrix Other		
ABHE	EPA 100.2	<input type="checkbox"/>				<input type="checkbox"/>		

** Available on 24-hr. to 5-day TAT

Turn Around Times	3 HR (4 HR TEM) <input type="checkbox"/>	6 HR (8HR TEM) <input type="checkbox"/>	12 HR <input type="checkbox"/>	1 Day <input type="checkbox"/>
	<input type="checkbox"/> 2 Days	<input type="checkbox"/> 3 Days	<input checked="" type="checkbox"/> 4 Days	<input type="checkbox"/> 5 Days

Special Instructions



Sample #	Sample Identification/Location	Volume or Area	Sample Date	Flow Rate*	Start - Stop Time*
1A	Insulation Bldg 10 Crawlspace				
2A	Insulation Debris Bldg 10 Crawlspace				
3A	Insulation on Steam line Bldg 20				
3B	" "				
4A	Insulation on Steam line Bldg 40				
4B	" "				
5A	Insulation Debris Bldg 50				
6A	Insulation Debris Bldg 30				
7A	Steam Line Bldg 50				
8A	Debris - Bldg 100 Crawlspace				
8B	" "				
9A	Insulation in above Ground Boiler Rooms Wood Bldgs				

Relinquished by	Date	Time	Received by	Date	Time
	4/1/2022		ZAO	4/4/22	10:52

If no technician is provided, then the primary contact for your account will be selected. Unless scheduled, the turnaround time for all samples received after 3 pm EST will be logged in the next business day. Weekend or holiday work must be scheduled ahead of time and is charged at 150% of the 3hr TAT or a minimum charge of \$150. A courier charge will be applied for same day and one-day turnaround times for offsite work. SanAir covers Ground and Next Day Air shipping. Shipments billed to SanAir with a faster shipping rate will result in additional charges.

[illegible]

Special Instructions	
-----------------------------	--

Relinquished by	Date	Time	Received by	Date	Time
	4/1/2022			4/1/22	10:15

ATTACHMENT #3

Interim Operations & Maintenance Plan

The contractors associated with Galego Court are aware of the presence and location of ACBM within the above stated areas. They have been instructed not to disturb the material due to the potential health hazards if fibers become airborne.

1. Notification

All building occupants, also any contractors entering the building and/or premises to perform work, shall be notified of the presence and location of asbestos-containing material(s) and cautioned regarding disturbance of the material(s). Also, the building occupants must be notified regarding the occurrence of asbestos abatement activities. If an emergency fiber release occurs, the following procedures shall be initiated.

2. Fiber Release Episodes

A. Minor Release Episode

If a minor fiber release episode occurs (release of less than 10 linear feet or 25 square feet of material), trained maintenance staff may perform the cleaning. Access to the area shall be restricted during clean-up. All debris shall be thoroughly wetted using amended water and placed in labeled, double six-mil polyethylene bags. The area shall then be cleaned using HEPA filtered vacuums and/or wet cleaning methods. Damaged material must be cleaned and repaired with non-asbestos-containing material. The area shall then be evaluated to decide if further action is necessary.

B. Major Release Episode

If a major fiber release episode occurs (falling or dislodging of more than 10 linear feet or 25 square feet of ACBM), the cleaning must be carried out and directed by persons accredited to conduct and design response actions. After such an episode, the area shall be immediately restricted and entry to the area prevented. Warning signs shall be posted to caution people other than those qualified to deal with the problem. Air handling units in the area shall be shut down to prevent the spread of fibers beyond the problem area. A response action shall be designed and carried out by qualified personnel.

3. Training

Any employee who, because of their work, may disturb asbestos-containing material shall be trained and certified as a Competent Person as described by the RI Rules and Regulations for Asbestos Control. The program coordinator shall ensure that the procedures described above to protect the building occupants shall be followed for any operations and maintenance activities disturbing or involving ACBM.

ATTACHMENT #4

Scope of Work / Description of Waivers

All proper OSHA, federal, state, and local safety regulations shall be followed.

Request of Waivers:

PHA and ECM are requesting a waiver of pre-abatement air samples for the crawlspace. The area is not meant for long term human occupancy. Due to dirt floor and miscellaneous debris within the space obtaining readable samples is not possible. All individuals entering the crawlspace prior to abatement must wear at a minimum half face respirator with HEPA filters and disposable coveralls.

Area 1:

B.11 (1.16 New Regulations) Alternate Procedures for removal of debris:

All doors, windows, floor drains, vents and other openings to the outside of the building and to areas within the building that do not contain asbestos materials shall be sealed off with 6-mil polyethylene sheeting and waterproof tape.

Negative pressure ventilation units with HEPA filtration shall be operated continuously from the time of barrier construction through the time acceptable final clearance air monitoring results are obtained. These units shall exhaust filtered air to the outside of the building. Filtered air shall not be exhausted to uncontaminated interior spaces.

Once the space is under negative pressure ventilation with all critical barriers installed, debris on floor within the crawlspace must be removed as asbestos containing material (ACM).

B.8.7 (1.14.7 New Regulations) - Glovebag Procedures:

After debris has been removed from the space the contractor shall install floor and wall sheeting.

Floors shall consist of at least one (1) layer of 6-mil polyethylene sheeting.

Wall sheeting shall consist of at least one (1) layer of 4-mil polyethylene sheeting.

Pipe insulation will be abated utilizing B.8.7 work procedures.

Manufacturer's instructions concerning preparation, sealing, utilization and removal of glovebags must be followed unless the abatement plan and/or these regulations specify more restrictive requirements.

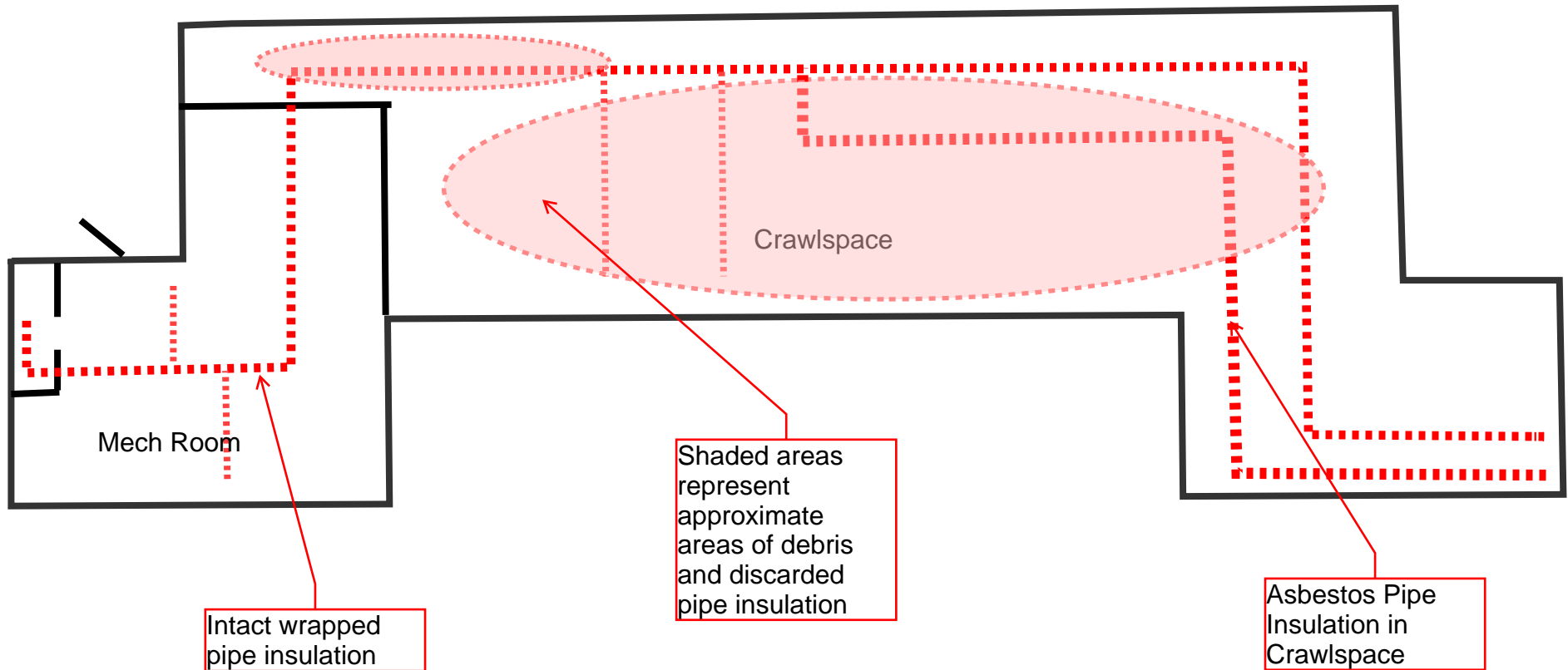
A three chamber worker decontamination enclosure system, in accordance with 29 CFR 1926.58(j), must be available immediately adjacent to the abatement area.

Area 2:

All pipe insulation located in the Mechanical Room/Boiler Room will be abated utilizing B.8.7 Glovebag Procedures.

Buildings; 30-40, 50-60, 80-90, 100-110, 130-140
150-160, 190-200, 210-220

210-220



Asbestos Abatement Plan

Pawtucket Housing Authority Galego Court Building 230 - Crawlspace

Prepared for:

**ESM
1005 Main Street
Pawtucket, RI 02860**

Prepared by:



June 2022

RHODE ISLAND DEPARTMENT OF HEALTH

NOTARIZED CERTIFICATION OF ASBESTOS AMENDED ABATEMENT PLAN

Facility: **Galego Court – Building 230**

Address: **483 Weeden Street**

City/Town: **Pawtucket**

Zip: **02860**

Amendment Phase No:

Abatement Plan Written By: **Joseph M. Lepore**

Certification No: **APD00661**

Summary of specific waivers/variances being requested: **Pre-abatement air samples**

Type of Asbestos Abatement ☒ Removal ☐ Enclosure ☐ Encapsulation
☐ Demolition ☒ Glovebag ☐ Asphalt Roofing
☐ Other (specify) _____

Is this plan being submitted in response to a Notice of Violation and/or a Notice of Requirement to Submit an Asbestos Abatement Plan? ☐ Yes ☒ No

If yes, Indicate Notice/Building Evaluation No(s):

Contractor: **To be determined**

License No:

Estimated Starting Date: **07/20/2022**

Pre-Abatement Sampling Information

Bulk Samples Collected By: **Joseph M. Lepore**

Certification No: **AI00661**

Bulk Samples Analyzed By: **San Air Labs.**

Certification No: **PLM00126**

Air Samples Analyzed By: **NA**

Certification No: **NA**

Clearance Air Sampling Information


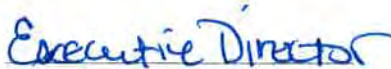
Air Samples to be Collected By: **ECM Inc. Personal**

Air Samples to be Analyzed By: **ECM Inc.**

Certification No: **PCM00131**

CERTIFICATION

I certify that: this asbestos abatement plan is prepared and submitted under the provisions of Section 23-24.5-6 of the RI Asbestos Control Act and Parts A and C of the RI Rules and Regulations for Asbestos Control; all abatement/management activities performed in conjunction with this plan must be in compliance with the specifications prescribed in this plan (when approved) and the most current revision of all applicable federal and state regulations; and the asbestos abatement/management activities described in this plan must be performed by a RI licensed asbestos abatement contractor.

Certified by:  Title: 
JESSICA A. LIRIANO (owner or Agent)
NOTARY PUBLIC Date: 7/13/22
STATE OF RHODE ISLAND
Subscribed and sworn before me this 13 day of July, 20 22
My Commission Expires: 2/19/2024

(Notary Public)

AFFIX NOTARY SEAL HERE

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
Department of Health
Office of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

1. Building Owner's Name:

Pawtucket Housing Authority

2. Application Prepared By:

Joseph M. Lepore

RI certification No: **AAC-0661**

Telephone No: **401-304-6614**

3. Building Owner's Mailing Address and Telephone Number:

Street: **214 Roosevelt Ave**

City/Town: **Pawtucket**

Zip: **02860**

Telephone No.: **401-721-6000**

(Area Code, No., Ext.)

4. Person to be contacted regarding this application:

Name: **Nicholas Toth**

Telephone No: **401-721-6044**

(Area Code, No., Ext.)

5. Location where abatement work will be performed:

Name (if applicable): **Building 230 Crawlspace**

Street: **483 Weeden Street**

City/Town: **Pawtucket**

Zip: **02860**

6. Is this application being submitted in response to a "Notice of Requirement to Submit an Asbestos Abatement plan"? () Yes (X) No

If Yes, what is the due date for submittal of Abatement plan? _____
(Mo.) (Day) (Yr.)

Evaluation Number on the Notice: _____

7. Contractor who will be performing abatement work (if selected):

Name: **To be determined**

R.I. License No.:

8. Estimated Starting Date of Abatement Work

07
(Month)

20
(Day)

2022
(Year)

9. Estimated Completion Date of Abatement Work:

12
(Month)

31
(Day)

2022
(Year)

10. Type of Asbestos Abatement:

(Check all that apply)

☒ Removal

☐ Enclosure

☐ Encapsulation

☐ Demolition

☐ Operations and Maintenance Only

☐ Asphalt Roofing

11. Type of Building:

☐ School

☐ Privately Owned Building

☒ Publicly Owned Building

☐ Residence

☐ Other (Specify) _____

12. Building Access:

☐ Public Access (\geq 25% of Building Area)

☒ Limited Public Access ($<$ 25% of Building Area)

☐ No Public Access

13. Bulk Sample Collection and Analysis:

A. Person collecting bulk samples:

Name: **Joseph M. Lepore**

RI Certification No.: **AI00661**

B. Sampling Methodology:

☐ EPA AHERA Sampling requirements [40 CFR 763.86].

☒ EPA's Asbestos Containing Material in School Buildings: A Guidance Document (EPA-405/2-78-014) or Guidance for Controlling Asbestos Containing Materials – 1985 Edition (EPA-560-5-85-024)

☐ Other (Specify) _____

C. Laboratory performing the analysis of the bulk samples

Name: **San Air Labs**

RI Certification No.: **PLM00126**

D. Analytical Methodology:

☒ EPA Interim Method for the Determination of Asbestos in Bulk Insulation Samples [PLM method only].

☐ Other (Specify) _____

14. Pre-Abatement Air Sample Collection and Analysis:

A. Person collecting pre-abatement air samples:

Name: **NA**

Affiliation: **NA**

B. Laboratory performing analysis of pre-abatement air samples.

Name: **NA**

RI Certification No.: **NA**

C. Methodology used in the collection and analysis of pre-abatement samples:

☒ NIOSH Method 7400 [Most Current Revision]

☐ OSHA 29 CFR 1926.1101 – Appendix A & B

☐ Other (Specify)

15. A. Indicate how the regulated asbestos containing material (RACM) will be removed from the abatement site. If a hauler or broker will be used to transport the RACM to a disposal site, they must also be identified.

To be determined _____

- B. Provide the name and location of the authorized asbestos waste facility to which the removed material will be transferred for disposal (if known).

To be determined _____

16. Person designated as compliance monitor for abatement work. **[NOT REQUIRED]**

Name: **ECM Inc. Personnel**

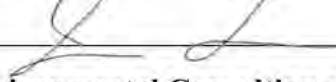
Affiliation: **Environmental Consulting and Management Inc. (ECM Inc.)**

1. In-Process & Clearance Air Sampling: **See Attachment #1**
 - A. Describe on an attachment the type, number and location of air samples that will be collected outside the work area during the abatement project.
 - B. Describe on an attachment the plan of action to be followed if the Indoor Non-Occupational Air Exposure Standard for Asbestos (0.01 fibers per cubic centimeter) is exceeded outside the work area during the abatement project.
 - C. Describe on an attachment the type, number and location of air samples that will be collected as part of the final clearance testing.
 - D. Describe on an attachment the plan of action to be followed if the Indoor Non-Occupational Air Exposure Standard for Asbestos (0.01 fiber per cubic centimeter) is exceed during final clearance testing.
-

2. A separate and fully completed Form ASB-16A must be submitted for each area to be abated. List below the entry in Item 1 from each attached ASB-16A.

Area 1 –Crawlspace

3. I certify that this plan was prepared by me and I am responsible for its content.

Signature:  Date 06 16 2022
(Month) (Day) (Year)
Affiliation: **Environmental Consulting and Management, Inc**

4. ASBESTOS ABATEMENT PLAN APPLICATION FEE:

- | | |
|--|--------|
| <input type="checkbox"/> Operation & Maintenance Only | \$ 75 |
| <input type="checkbox"/> Up to One (1) NESHAP Unit | \$ 75 |
| <input type="checkbox"/> Between One (1) & Ten (10) NESHAP Units | \$ 300 |
| <input type="checkbox"/> Between Ten (10) & Fifty (50) NESHAP Units | \$ 600 |
| <input type="checkbox"/> Over Fifty (50) NESHAP Units | \$ 900 |
| <input checked="" type="checkbox"/> RI State Agency Waived Application Fee | |

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Health

Office of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

SUPPLEMENTAL INFORMATION: AREA DESCRIPTION AND PROPOSED REMEDY

BUILDING LOCATION: 483 Weeden Street, Pawtucket, RI – Building 230

INSTRUCTIONS: All items on this form must be addressed. All references to attachments must be clearly identified. All attachments must be marked with the specific item numbers on this form to which they pertain.

1. Area Location/Identification (Room Name/No., Evaluation Number, etc.):

Area 1 – Crawlspace

2. Attach a description of each type (e.g. pipe, ceiling, etc.) of regulated asbestos containing material (RACM) in this area, including condition, location, quantity and asbestos content. Attach a copy of the laboratory report(s) for all samples. (NOTE: All laboratory reports must include the name of the building(s) and the location(s) of the sample(s).

Refer to Attachment #2

3. Attach a current scale drawing of this area, showing direction of North and East, which has been clearly annotated to show the type, location and quantity of all RACM in this area. This drawing must include a legend which acts as a guide to the scale, symbols and nomenclature used in the drawing. If a master plan or multiple drawings are provided, indicate the specific location(s) and drawing number(s) which depict this area. The location of the decontamination chamber must also be so indicated on the appropriate drawing(s).

Refer to Attached Building Drawing

4. PROPOSED REMEDIES:

- A. Attach a description of the interim Operations and Maintenance Plan that will be implemented in accordance with C.1.2 (b).

Refer to Attachment #3

(4) PROPOSED REMEDIES (cont.):

B. Will any portion of this area be abated by use of B.8 work procedures?

☒ Yes ☐ No

If Yes, indicate below which RACM in this area will be abated by use of the following B.8 work procedures:

B.8.2 & B.8.3 [REMOVAL]

B.8.2 & B.8.4 [ENCAPSULATION]

B.8.2 & B.8.5 [ENCLOSURE]

B.8.6 [DEMOLITION]

B.8.7 [GLOVEBAG] **Pipe insulation**

B.8.8 [ASP. ROOFING]

C. Are you requesting any waivers to the above selected B.8 procedure for any of the abatement activities in this area?

☒ Yes ☐ No **Pre-abatement air sampling**

If yes, attach a detailed description of the waivers requested you are proposing to utilize.

All items must be keyed to the specific section(s) of the regulations for which waivers are requested.

D. Are you proposing alternative procedures under B.11 for any of the abatement activities in this area?

☒ Yes ☐ No **See Attachment 4**

If yes, attach a detailed description of the alternate procedures requested you are proposing to utilize. Alternate procedures must include a justification for not following specific

section(s) of the regulations and be as protective of public health.

E. Will any RACM remain in this area after abatement?

☐ Yes ☐ No ☒ Beyond scope of inspection

If Yes, attach a description of the RACM that will remain and the details of the on-going Operations and Maintenance Plan that will be implemented in accordance with C.1.2(b).

AGENCY USE ONLY

ATTACHMENT #1

In Process and Clearance Air Sampling

- A. If requested by the building owner, ECM will be on site for part time monitoring and will collect one compliance air sample outside the containment area daily for the duration of asbestos removal operations inside this building. The sample will be collected outside the decontamination unit.
- B. Any deviation in proper procedures on the part of the contractor shall be reported to the building owner. This includes inadequate paperwork on site, disagreement and/or any deviation from previously outlined work procedures, or if compliance samples in the work area vicinity exceed 0.01 f/cc. The contractor's work shall then be stopped, without repercussion to the building owner or the project-monitoring firm until any conflicts and/or problems have been resolved.

- C. After the interior areas have passed the consultant's visual inspection, he or his authorized representative will collect the following air samples and the corresponding required blanks:

Area 1 – A minimum of 2 PCM clearance air samples will be collected from the crawlspace.

- D. If clearance monitoring after clean-up results in fiber concentrations in excess of the RI rules and regulation clearance air requirements, the project area shall be wet-cleaned, misted with water, and encapsulated with a liquid encapsulant. A period of no less than 24 hours shall elapse before the next set of clearance air samples can be collected. The sampling process shall be repeated until a satisfactory clearance air level is attained.

The asbestos contractor is held responsible for any costs associated with the re-cleaning and re-sampling of an area should clearance air samples exceed 0.01 f/cc.

ATTACHMENT #2

ASB-16A-2

POSITIVE ASBESTOS CONTAINING MATERIALS:

There is approximately 200lf of asbestos containing pipe insulation located within the crawlspace of building 230.

Visible pipe insulation debris was observed on the dirt floor within the crawlspace.

It is the contractor's responsibility to verify all quantities.

ATTACHMENT #2

(Continued)

1. Bulk Sample Results



Analysis Report
prepared for
Environmental Consulting & Management Inc

Report Date: 4/11/2022

Project Name: Galego Court - Crawlspace

Project #: 220155

SanAir ID#: 22016284



NVLAP LAB CODE 200870-0

10501 Trade Court | North Chesterfield, Virginia 23236
888.895.1177 | 804.897.1177 | fax: 804.897.0070 | IAQ@SanAir.com | SanAir.com



SanAir ID Number

22016284

FINAL REPORT

4/11/2022 10:17:12 AM

Name: Environmental Consulting & Management Inc
Address: 50 Kickemuit Ave
Bristol, RI 02809
Phone: 401-438-1360

Project Number: 220155

P.O. Number:

Project Name: Galego Court - Crawlspace

Collected Date: 4/1/2022

Received Date: 4/4/2022 10:15:00 AM

Dear Joseph M. Lepore,

We at SanAir would like to thank you for the work you recently submitted. The 17 sample(s) were received on Monday, April 04, 2022 via UPS. The final report(s) is enclosed for the following sample(s): 1A, 2A, 3A, 3B, 4A, 4B, 5A, 6A, 7A, 8A, 8B, 9A, 9B, 9C, 10A, 10B, 11A.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

A handwritten signature in black ink that reads "Sandra Sobrino". The signature is written in a cursive, flowing style.

Sandra Sobrino
Asbestos & Materials Laboratory Manager
SanAir Technologies Laboratory

Final Report Includes:

- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

Sample conditions:

- 17 samples in Good condition.



SanAir ID Number
22016284
FINAL REPORT
4/11/2022 10:17:12 AM

Name: Environmental Consulting & Management Inc
Address: 50 Kickemuit Ave
Bristol, RI 02809
Phone: 401-438-1360

Project Number: 220155
P.O. Number:
Project Name: Galego Court - Crawlspace
Collected Date: 4/1/2022
Received Date: 4/4/2022 10:15:00 AM

Analyst: Moore, Brandi

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
1A / 22016284-001 Insulation Bldg 10 Crawlspace	White Non-Fibrous Homogeneous		80% Other	15% Chrysotile 5% Amosite
2A / 22016284-002 Insulation Debris Bld 10 Crawlspace	White Non-Fibrous Homogeneous	10% Cellulose	70% Other	15% Chrysotile 5% Amosite
3A / 22016284-003 Insulation On Steam Line Bldg 20	White Non-Fibrous Heterogeneous	5% Cellulose	82% Other	10% Amosite 3% Chrysotile
3B / 22016284-004 Insulation On Steam Line Bldg 20	White Non-Fibrous Heterogeneous	5% Cellulose	80% Other	10% Amosite 5% Chrysotile
4A / 22016284-005 Insulation On Steam Line Bldg 40	White Non-Fibrous Heterogeneous		85% Other	10% Amosite 5% Chrysotile
4B / 22016284-006 Insulation On Steam Line Bldg 40	White Non-Fibrous Homogeneous		84% Other	8% Amosite 8% Chrysotile
5A / 22016284-007 Insulation Debris Bldg 50	Grey Fibrous Homogeneous	15% Cellulose	63% Other	15% Amosite 7% Chrysotile
6A / 22016284-008 Insulation Debris Bldg 30	Grey Fibrous Homogeneous		40% Other	60% Chrysotile
7A / 22016284-009 Steam Line Bldg 50	White Non-Fibrous Homogeneous		70% Other	20% Chrysotile 10% Amosite
8A / 22016284-010 Debris - Bldg 100 Crawlspace	Grey Fibrous Homogeneous		40% Other	60% Chrysotile

Analyst: *Brandi Moore*

Approved Signatory: *Jonathan Wilson*

Analysis Date: 4/11/2022

Date: 4/11/2022



SanAir ID Number

22016284

FINAL REPORT

4/11/2022 10:17:12 AM

Name: Environmental Consulting & Management Inc
Address: 50 Kickemuit Ave
Bristol, RI 02809
Phone: 401-438-1360

Project Number: 220155**P.O. Number:****Project Name:** Galego Court - Crawlspace**Collected Date:** 4/1/2022**Received Date:** 4/4/2022 10:15:00 AM

Analyst: Moore, Brandi

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
8B / 22016284-011 Debris - Bldg 100 Crawlspace	White Non-Fibrous Heterogeneous		80% Other	10% Chrysotile 10% Amosite
9A / 22016284-012 Insulation In Above Ground Boiler Rooms Wood Bldgs, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
9A / 22016284-012 Insulation In Above Ground Boiler Rooms Wood Bldgs, Wrap	White Non-Fibrous Heterogeneous	30% Cellulose 15% Glass	55% Other	None Detected
9B / 22016284-013 Insulation Wood Bldg Boiler Rooms, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
9B / 22016284-013 Insulation Wood Bldg Boiler Rooms, Wrap	White Non-Fibrous Heterogeneous	30% Cellulose	70% Other	None Detected
9C / 22016284-014 Insulation Wood Bldg Boiler Rooms, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
9C / 22016284-014 Insulation Wood Bldg Boiler Rooms, Wrap	White Non-Fibrous Heterogeneous	30% Cellulose 15% Glass	55% Other	None Detected
10A / 22016284-015 Breaching On New Furnaces - Bldg 30, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
10A / 22016284-015 Breaching On New Furnaces - Bldg 30, Wrap	White Fibrous Heterogeneous	85% Glass	15% Other	None Detected
10B / 22016284-016 Breaching On New Furnaces - Bldg 30, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected

Analyst: *Brandi Moore*Approved Signatory: *Jonathan Wilson*

Analysis Date: 4/11/2022

Date: 4/11/2022



SanAir ID Number

22016284

FINAL REPORT

4/11/2022 10:17:12 AM

Name: Environmental Consulting & Management Inc
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Project Number: 220155
P.O. Number:
Project Name: Galego Court - Crawlspace
Collected Date: 4/1/2022
Received Date: 4/4/2022 10:15:00 AM

Analyst: Moore, Brandi

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
10B / 22016284-016 Breaching On New Furnaces - Bldg 30, Wrap	White Fibrous Heterogeneous	85% Glass	15% Other	None Detected
11A / 22016284-017 Wallboard Bldg 20 Boiler Room, Wallboard	Grey Non-Fibrous Homogeneous	5% Cellulose	95% Other	None Detected
11A / 22016284-017 Wallboard Bldg 20 Boiler Room, Joint Compound	White Non-Fibrous Homogeneous		100% Other	None Detected

Analyst:

Brandi Moore

Approved Signatory:

Johnathan Wilson

Analysis Date: 4/11/2022

Date: 4/11/2022

Disclaimer

This report is the sole property of the client named on the SanAir Technologies Laboratory chain-of-custody (COC). Results in the report are confidential information intended only for the use by the customer listed on the COC. Neither results nor reports will be discussed with or released to any third party without our client's written permission. The final report shall not be reproduced except in full without written approval of the laboratory to assure that parts of the report are not taken out of context. The information provided in this report applies only to the samples submitted and is relevant only for the date, time, and location of sampling. The accuracy of the results is dependent upon the client's sampling procedure and information provided to the laboratory by the client. SanAir assumes no responsibility for the sampling procedure and will provide evaluation reports based solely on the sample(s) in the condition in which they arrived at the laboratory and information provided by the client on the COC, such as: project number, project name, collection dates, po number, special instructions, samples collected by, sample numbers, sample identifications, sample type, selected analysis type, flow rate, total volume or area, and start stop times that may affect the validity of the results in this report. Samples were received in good condition unless otherwise noted on the report. SanAir assumes no responsibility or liability for the manner in which the results are used or interpreted. This report does not constitute and shall not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any other U.S. governmental agencies and may not be certified by every local, state, and federal regulatory agencies.

Samples are held for a period of 60 days. Fibers smaller than 5 microns cannot be seen with this method due to scope limitations.

For NY state samples, method EPA 600/M4-82-020 is performed.

NYELAP Disclaimer:

Polarized- light microscopy is not consistently reliable in detecting asbestos in floor covering and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

Asbestos Certifications

NVLAP lab code 200870-0

City of Philadelphia: ALL-460

PA Department of Environmental Protection Number: 68-05397

California License Number: 2915

Colorado License Number: AL-23143

Connecticut License Number: PH-0105

Massachusetts License Number: AA000222

Maine License Number: LB-0075, LA-0084

New York ELAP lab ID: 11983

Rhode Island License Number: PCM00126, PLM00126, TEM00126

Texas Department of State Health Services License Number: 300440

Commonwealth of Virginia 3333000323

Washington State License Number: C989

West Virginia License Number: LT000616

Vermont License: AL166318

Louisiana Department of Environmental Quality: 212253, Cert 05088

Revision Date: 8/14/2020



10501 Trade Ct., Suite 100
N. Chesterfield, VA 23236
804.897.1177 / 888.895.1177
Fax 804.897.0070
sanair.com

Asbestos
Chain of Custody
Form 140, Rev 6, 1/26/2022

SanAir ID Number

22016284

Company: Environmental Consulting & Management Inc	Project #: 220155	Collected by: Joe Lepore
Address: 50 Kickemuit Ave	Project Name: Galego Court - Crawlspace	Phone #: 401-438-1380
City, St., Zip: Bristol, RI 02809	Date Collected: 4/1/2022	Fax #: 401-438-1316
State of Collection: RI Account#: 2667	P.O. Number:	Email: JLepore@ECMNE.com

Bulk			Air			Soil		
ABB	PLM EPA 600/R-93/116	<input checked="" type="checkbox"/>	ABA	PCM NIOSH 7400	<input type="checkbox"/>	ABSE	PLM EPA 600/R-93/116 (Qual.)	<input type="checkbox"/>
	Positive Stop	<input type="checkbox"/>	ABA-2	OSHA w/ TWA*	<input type="checkbox"/>	Soil		
ABEPA	PLM EPA 400 Point Count	<input type="checkbox"/>	ABTEM	TEM AHERA	<input type="checkbox"/>	ABSP	PLM CARB 435 (LOD <1%)	<input type="checkbox"/>
ABB1K	PLM EPA 1000 Point Count	<input type="checkbox"/>	ABATN	TEM NIOSH 7402	<input type="checkbox"/>	ABSP1	PLM CARB 435 (LOD 0.25%)	<input type="checkbox"/>
ABBN	PLM EPA NOB**	<input type="checkbox"/>	ABT2	TEM Level II	<input type="checkbox"/>	ABSP2	PLM CARB 435 (LOD 0.1%)	<input type="checkbox"/>
ABBCH	TEM Chatfield**	<input type="checkbox"/>	Other:		<input type="checkbox"/>	Dust		
ABBTM	TEM EPA NOB**	<input type="checkbox"/>	New York ELAP			ABWA	TEM Wipe ASTM D-6480	<input type="checkbox"/>
ABQ	PLM Qualitative	<input type="checkbox"/>	ABEPA2	NY ELAP 198.1	<input type="checkbox"/>	ABDMV	TEM Microvac ASTM D-5755	<input type="checkbox"/>
			ABENY	NY ELAP 198.6 PLM NOB	<input type="checkbox"/>			
			ABBNY	NY ELAP 198.4 TEM NOB	<input type="checkbox"/>			
Water						Matrix Other		
ABHE	EPA 100.2	<input type="checkbox"/>						

** Available on 24-hr. to 5-day TAT

Turn Around Times	3 HR (4 HR TEM) <input type="checkbox"/>	6 HR (8HR TEM) <input type="checkbox"/>	12 HR <input type="checkbox"/>	1 Day <input type="checkbox"/>
	<input type="checkbox"/> 2 Days	<input type="checkbox"/> 3 Days	<input checked="" type="checkbox"/> 4 Days	<input type="checkbox"/> 5 Days

Special Instructions

Sample #	Sample Identification/Location	Volume or Area	Sample Date	Flow Rate*	Start - Stop Time*
1A	Insulation Bldg 10 Crawlspace				
2A	Insulation Debris Bldg 10 Crawlspace				
3A	Insulation on Steam line Bldg 20				
3B	" "				
4A	Insulation on Steam line Bldg 40				
4B	" "				
5A	Insulation Debris Bldg 50				
6A	Insulation Debris Bldg 30				
7A	Steam Line Bldg 50				
8A	Debris - Bldg 100 Crawlspace				
8B	" "				
9A	Insulation in above Ground Boiler Rooms Wood Bldgs				

Relinquished by	Date	Time	Received by	Date	Time
	4/1/2022		ZAO	4/4/22	10:52

If no technician is provided, then the primary contact for your account will be selected. Unless scheduled, the turnaround time for all samples received after 3 pm EST will be logged in the next business day. Weekend or holiday work must be scheduled ahead of time and is charged at 150% of the 3hr TAT or a minimum charge of \$150. A courier charge will be applied for same day and one-day turnaround times for offsite work. SanAir covers Ground and Next Day Air shipping. Shipments billed to SanAir with a faster shipping rate will result in additional charges.

[illegible]

Special Instructions	
-----------------------------	--

Relinquished by	Date	Time	Received by	Date	Time
<i>[Signature]</i>	4/1/2022		<i>[Signature]</i>	4/1/22	10:15

ATTACHMENT #3

Interim Operations & Maintenance Plan

The contractors associated with Galego Court are aware of the presence and location of ACM within the above stated areas. They have been instructed not to disturb the material due to the potential health hazards if fibers become airborne.

1. Notification

All building occupants, also any contractors entering the building and/or premises to perform work, shall be notified of the presence and location of asbestos-containing material(s) and cautioned regarding disturbance of the material(s). Also, the building occupants must be notified regarding the occurrence of asbestos abatement activities. If an emergency fiber release occurs, the following procedures shall be initiated.

2. Fiber Release Episodes

A. Minor Release Episode

If a minor fiber release episode occurs (release of less than 10 linear feet or 25 square feet of material), trained maintenance staff may perform the cleaning. Access to the area shall be restricted during clean-up. All debris shall be thoroughly wetted using amended water and placed in labeled, double six-mil polyethylene bags. The area shall then be cleaned using HEPA filtered vacuums and/or wet cleaning methods. Damaged material must be cleaned and repaired with non-asbestos-containing material. The area shall then be evaluated to decide if further action is necessary.

B. Major Release Episode

If a major fiber release episode occurs (falling or dislodging of more than 10 linear feet or 25 square feet of ACM), the cleaning must be carried out and directed by persons accredited to conduct and design response actions. After such an episode, the area shall be immediately restricted and entry to the area prevented. Warning signs shall be posted to caution people other than those qualified to deal with the problem. Air handling units in the area shall be shut down to prevent the spread of fibers beyond the problem area. A response action shall be designed and carried out by qualified personnel.

3. Training

Any employee who, because of their work, may disturb asbestos-containing material shall be trained and certified as a Competent Person as described by the RI Rules and Regulations for Asbestos Control. The program coordinator shall ensure that the procedures described above to protect the building occupants shall be followed for any operations and maintenance activities disturbing or involving ACM.

ATTACHMENT #4

Scope of Work / Description of Waivers

All proper OSHA, federal, state, and local safety regulations shall be followed.

Request of Waivers:

PHA and ECM are requesting a waiver of pre-abatement air samples for the crawlspace. The area is not meant for long term human occupancy. Due to dirt floor and miscellaneous debris within the space obtaining readable samples is not possible. All individuals entering the crawlspace prior to abatement must wear at a minimum half face respirator with HEPA filters and disposable coveralls.

B.11 (1.16 New Regulations) Alternate Procedures for removal of debris:

All doors, windows, floor drains, vents and other openings to the outside of the building and to areas within the building that do not contain asbestos materials shall be sealed off with 6-mil polyethylene sheeting and waterproof tape.

Negative pressure ventilation units with HEPA filtration shall be operated continuously from the time of barrier construction through the time acceptable final clearance air monitoring results are obtained. These units shall exhaust filtered air to the outside of the building. Filtered air shall not be exhausted to uncontaminated interior spaces.

Once the space is under negative pressure ventilation with all critical barriers installed, debris on floor within the crawlspace must be removed as asbestos containing material (ACM).

B.8.7 (1.14.7 New Regulations) - Glovebag Procedures:

After debris has been removed from the space the contractor shall install floor and wall sheeting.

Floors shall consist of at least one (1) layer of 6-mil polyethylene sheeting.

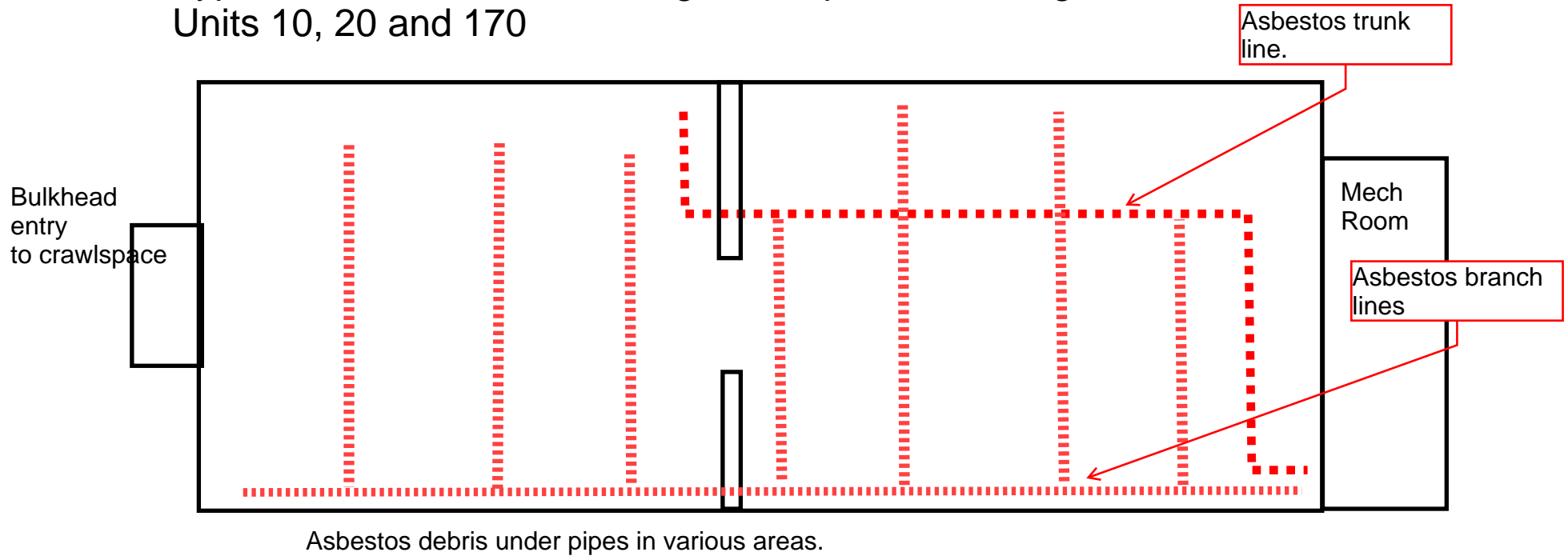
Wall sheeting shall consist of at least one (1) layer of 4-mil polyethylene sheeting.

Pipe insulation will be abated utilizing B.8.7 work procedures.

Manufacturer's instructions concerning preparation, sealing, utilization and removal of glovebags must be followed unless the abatement plan and/or these regulations specify more restrictive requirements.

A three chamber worker decontamination enclosure system, in accordance with 29 CFR 1926.58(j), must be available immediately adjacent to the abatement area.

Typical Wood Framed Building Crawlspace - 6 Living Units Units 10, 20 and 170



Typical Wood Framed Building Crawlspace - 3 Living Units (180 and 230)

