



Chester Upland School District Toby Farms Intermediate School

Renovations

Addenda No. 03

Issued 04-11-23

Please be advised that Addenda No. 03 is hereby released for the above listed solicitation. This addendum addresses the following items:

- **Toby Farms Environmental Report**
- **RFI Clarification Document**
- **Bid Extension Advertisement – RFI period to close 4/17 with bids due 4/21**

NOTICE OF ADVERTISEMENT FOR BID EXTENSION:

Chester Upland School District – ESSER Projects

- 1. Toby Farms Intermediate School, HVAC and Window Upgrades**
- 2. CUSA Chiller Replacement**

Public notice is given that sealed bids/proposals will be received online via the PennBid Program by the Chester Upland School District by April 21, 2023 until 4:00 PM prevailing time. This timeframe has been extended from the original deadline on April 14, 2023.

Bidders are required to submit a surety in the form of a bond or equivalent meeting 10% of the overall bid price in compliance with the contract documents. Bid bonds will be returned to the non-awarded bidders upon the execution of the contract. The successful Bidder shall also be required to provide a Performance Bond in an amount of one hundred percent (100%) of the Contract amount within ten (10) calendar days of receipt of written notice of acceptance of the Bid.

There is no physical public bid opening for this project, bids will be revealed via the PennBid website.

A uniform fee of 0.333% ($\frac{1}{3}$ of 1 percent) of the bid amount (up to \$5,000) is applied only to bidders who are awarded contracts. No fees apply to bidders who submit without being awarded the contract.

All interested parties must submit questions via the web based system, by the posted deadline for questions. Bidders are not permitted to contact the Engineer or staff directly.

The Bidder's attention is called to the fact that this project is assisted with federal funds, and various federal requirements apply as noted in the bid documents, including but not limited to equal opportunity provisions. Davis-Bacon and Related Acts.

The Bidder's attention is called to the fact that this project is subject to the Pennsylvania Department of Education Standard Terms and Conditions for federally funded grants.

The Contract Documents contain all pertinent regulations. Award of the contract will be to the lowest responsible bidder. The Owner reserves the right to reject any or all bids or to accept any portion of any bid, and to award Contracts as is deemed best for the Owner.

Receiver Nafis Nichols
Chester Upland School District

Advertised in the Delaware County Times:
Wednesday, April 12, 2023

| <input type="checkbox"/> | QUESTION | RESPONSE | FULL NAME | CONTACT COM | ATTACHED FILE | DATE ASKEI | RESPONSE DAT | VISIBLE ONLINE TO | SEND EMAIL NOTIFICAT |
|--------------------------|---|--|-------------------|--|---------------|--------------------|--------------------|------------------------|------------------------|
| <input type="checkbox"/> | May we have a range of probable cost? | CUSD is not disclosing the budget for this project. | Karen Kleber | PBX | | 3/17/2023 8:08 AM | 3/17/2023 3:48 PM | Bidder Asking Question | Bidder Asking Question |
| <input type="checkbox"/> | Is this for both Toby Farms Intermediate and the CUSA chiller replacement? or will they be sperate pennbid links for each? | This bid is only for Toby Farms Intermediate School. The CUSA Chiller Bid is currently open and available on Pennbid. Link to CUSA Chiller Bid | Mark Haley | Myco Mechanical, Inc. | | 3/17/2023 9:46 AM | 3/17/2023 9:58 AM | Bidder Asking Question | Bidder Asking Question |
| <input type="checkbox"/> | Is the Bid Bond amount 10% as noted in the Notice to Contractors or 5% as noted on the Bid Form? | 10% per the Notice to Contractors | Larry Jr Paolella | L.J. Paolella Construction, Inc. | | 3/17/2023 12:30 PM | 3/17/2023 3:42 PM | Bidder Asking Question | Bidder Asking Question |
| <input type="checkbox"/> | To clarify, as per the Bid Form, the only documents to be submitted WITH the bid are the bid form, bid bond, alternates form and unit prices form? All other forms should be submitted upon award? | Documents to the submitted with the Bid shall include the following: <ul style="list-style-type: none">Non-Collusion AffidavitBid BondSigned Bid FormSigned Unit Prices Form (If Applicable)Signed Alternates (If Applicable)Subcontractor Declaration - They may push back on thisNon-Discrimination ClauseConflict of Interest and Records of Required AuditsAccepting Provisions of the Workers Compensation ActCertification of Compliance with Federal Labor Standard ProvisionsMBE/WBE OutreachCertification of Compliance with Air and Water ActsMBE/WBE Contact/Solicitation StatementCertification of Non-Segregated FacilitiesVerification of Contractor EligibilityBids Qualifications | Larry Jr Paolella | L.J. Paolella Construction, Inc. | | 3/17/2023 12:31 PM | 3/17/2023 3:41 PM | Bidder Asking Question | Bidder Asking Question |
| <input type="checkbox"/> | What is the purpose of the included NorthStar Project Estimate Summary document? | While not required for bid submission the Project Estimate Summery/Bid Cost by Division helps descope and evaluate bids accurately and in a timely fashion. | Larry Jr Paolella | L.J. Paolella Construction, Inc. | | 3/20/2023 10:00 AM | 3/20/2023 11:11 AM | All Bidders | Bidder Asking Question |
| <input type="checkbox"/> | Is there a cost estimate or budget associated with this project? | CUSD is not disclosing the budget for this project. | Sean Peguero | ConstructConnect | | 3/20/2023 10:20 AM | 3/20/2023 10:35 AM | All Bidders | None |
| <input type="checkbox"/> | Based on the bid form and the pricing tab in Pennbid, how do you know what contract each contractor is bidding on? There is no delineation. | The CUSD Toby Farms Renovation project is a single prime project. This answer has been superseded by Addenda 01. This project is Multi-Prime. | Dwight Eisenhower | JBM Mechanical, Inc | | 3/21/2023 8:29 AM | 3/23/2023 11:42 AM | Bidder Asking Question | Bidder Asking Question |
| <input type="checkbox"/> | You answered that this project is a Single Prime bid. That isnt according to the Multiple Contract Summary. That shows 3 separate contracts (GC, MC, EC). Please confirm again how this is to be bid. | This project is Multi-Prime. See Addenda 01 for more details. | Dwight Eisenhower | JBM Mechanical, Inc | | 3/23/2023 8:19 AM | 3/23/2023 11:43 AM | Bidder Asking Question | Bidder Asking Question |
| <input type="checkbox"/> | Is there a distance from "MDPA' to the PECO line? | For the purposes of the bid, the contractor shall assume that the distance from the MDPA to the PECO is 400'. Final requirement will need to be confirmed with the contractor and PECO. | Vince Ford, Jr | Ford Brothers Electric | | 3/23/2023 8:30 AM | 3/28/2023 10:11 AM | All Bidders | Bidder Asking Question |
| <input type="checkbox"/> | Is there a schedule for when this work is supposed to take place? | Work is to being at Notice to Proceed and has a hard completion date of July 31, 2024. | Vince Ford, Jr | Ford Brothers Electric | | 3/23/2023 9:28 AM | 3/23/2023 11:45 AM | Bidder Asking Question | Bidder Asking Question |
| <input type="checkbox"/> | Please clarify whether this project is single prime or multi-prime. | This project is Multi-Prime. See Addenda 01 for more details. | Larry Jr Paolella | L.J. Paolella Construction, Inc. | | 3/23/2023 9:49 AM | 3/23/2023 11:44 AM | Bidder Asking Question | Bidder Asking Question |
| <input type="checkbox"/> | Is this Project Single Prime or Multi Prime? Spec Section States General, Mechanical and Electrical Contracts. The Response Tab on PennBid only has one, "Total Stipulated Sum" entry. Please Confirm | This project is Multi-Prime. See Addenda 01 for more details. | Jim Conlin | L.J. Paolella Construction, Inc. | | 3/23/2023 9:56 AM | 3/23/2023 11:44 AM | Bidder Asking Question | Bidder Asking Question |

| | | | | | | | | |
|--------------------------|---|---|-----------------|---|--------------------|--------------------|------------------------|------------------------|
| <input type="checkbox"/> | Spec. SECTION 011200 - MULTIPLE CONTRACT SUMMARY | This project is Multi-Prime. See Addenda 01 for more details. | Jim Conlin | L.J. Paolella Construction, Inc. | 3/23/2023 9:58 AM | 3/23/2023 11:44 AM | Bidder Asking Question | Bidder Asking Question |
| <input type="checkbox"/> | Is this a multi prime or single prime project? | This project is Multi-Prime. See Addenda 01 for more details. | Jane Best-Weick | Bancroft Construction Company | 3/23/2023 10:56 AM | 3/23/2023 11:44 AM | Bidder Asking Question | Bidder Asking Question |
| <input type="checkbox"/> | Looking over the Phasing Dwgs. just released, the date states July 31st, 2024, is this correct? | Construction must be completed by July 31, 2024. Work is to begin at Notice to Proceed. | Jim Conlin | L.J. Paolella Construction, Inc. | 3/23/2023 2:47 PM | 3/23/2023 2:55 PM | Bidder Asking Question | Bidder Asking Question |
| <input type="checkbox"/> | Phasing drawing issued in Addendum #1; one sheet is labeled Phase D and the other is labeled Phase E, then each sheet is color coded for five separate phases. Please clarify Phases D and E, as well as #1 through #5 (#6 is noted but no color associated with it). | These are two of the possibilities for the phasing plans, Plan D c Plan E. As of now both are an option until a final phasing plan has been selected. Phases 1-5 are all color coded to the section of school they correspond to. Phase 6 is work that will happen throughout the whole school. | Paul McKeon | LJ Paolella Construction, Inc. | 3/30/2023 11:04 AM | 3/30/2023 11:46 AM | Bidder Asking Question | Bidder Asking Question |
| <input type="checkbox"/> | Phasing drawing issued in Addendum #1; notes Notice to Proceed is July 31, 2024; if this is correct what are the dates for the different phases? | Work is to begin this summer 2023 with Notice to Proceed, actual start in field tbd by material availability/permitting requirements, etc.. All work must be completed by July 31, 2024 | Paul McKeon | LJ Paolella Construction, Inc. | 3/30/2023 11:05 AM | 3/30/2023 1:31 PM | Bidder Asking Question | Bidder Asking Question |
| <input type="checkbox"/> | Specification #064023 appears to call out the casework as wood veneer, with plastic laminate as Alternate #4; paragraph 2.6-C. Alternate #4 seems to have nothing to do with the casework. Please clarify required cabinet construction; wood or plastic laminate. | The drawings indicate PLAM cabinets and that should be the base bid. The solid wood cabinets with transparent finish should be listed in the specifications as ALTERNATE #6 and added to t SCHEDULE OF ALTERNATES as such. | Paul McKeon | LJ Paolella Construction, Inc. | 3/30/2023 11:05 AM | 4/3/2023 9:52 AM | Bidder Asking Question | Bidder Asking Question |
| <input type="checkbox"/> | Casework Section Details #1 & #2 on A801 appear to show "Face-Frame" style casework construction, please advise id frameless construction is acceptable. | "Face-Frame" style casework is required. | Paul McKeon | LJ Paolella Construction, Inc. | 3/30/2023 11:05 AM | 4/3/2023 9:45 AM | Bidder Asking Question | Bidder Asking Question |
| <input type="checkbox"/> | Specification #064023 call out the plastic laminate casework to have a Self-Edge treatment (HPL), paragraph 2.6-C-2-d. Please advise if .018" Thick PVC matching the HPL in color will be acceptable | PVC is not acceptable. | Paul McKeon | LJ Paolella Construction, Inc. | 3/30/2023 11:06 AM | 4/3/2023 9:44 AM | Bidder Asking Question | Bidder Asking Question |
| <input type="checkbox"/> | Specification #064023 call out the plastic laminate countertops to have a Self-Edge treatment (HPL), paragraph 2.6-F-8. Casework Section Details #1 & #2 on A801 call out the plastic laminate window sill and countertop edge as being solid wood. Please advise if the plastic lamiante window sill and countertop edges are to be solid wood or HPL self-edge. | Delete solid wood edge, HPL self-edge is preferred. | Paul McKeon | LJ Paolella Construction, Inc. | 3/30/2023 11:06 AM | 4/3/2023 9:52 AM | Bidder Asking Question | Bidder Asking Question |
| <input type="checkbox"/> | Is this multi-prime? the bid form has separate pricing for GC, Mechanical, and Electrical. However it was mentioned at pre bid that its single prime | This project is Multi-Prime. See Addenda 01 for more details. | Mike Ferguson | S.B. Conrad, Inc. | 3/31/2023 10:38 AM | 3/31/2023 10:52 AM | Bidder Asking Question | Bidder Asking Question |
| <input type="checkbox"/> | Drawing A7.01 is missing from bid set | A7.01 was removed from the set. Elevations are now on A602. A701 should have been removed from the drawing list. Tags on plan are also erroneous. They still refer to A701 for interior elevation. Should be A602 | Mike Ferguson | S.B. Conrad, Inc. | 4/3/2023 8:18 AM | 4/3/2023 3:07 PM | Bidder Asking Question | Bidder Asking Question |
| <input type="checkbox"/> | Drawing A311c references detail 7 on A501. However, A501 says that detail is not used. | 7 on A501 was an exterior elevation that had no windows. We removed from the set. Should have also removed the 7/A501 tag on A311C | Mike Ferguson | S.B. Conrad, Inc. | 4/3/2023 8:20 AM | 4/3/2023 3:08 PM | Bidder Asking Question | Bidder Asking Question |
| <input type="checkbox"/> | Who is to pay for permits | The contractor is required to apply and pay permit fees. All permit fees will be reimbursed by theDistrict. | Mike Ferguson | S.B. Conrad, Inc. | 4/3/2023 8:43 AM | 4/3/2023 1:52 PM | Bidder Asking Question | Bidder Asking Question |
| <input type="checkbox"/> | Page 23 09 33 - 1 states "Contractor to obtain pricing from owner's controls vendor (and include in his bid)"... Please specify who the owner's control vendor is? | The District does not have a control vendor for Toby Farms. Currently, the District works with Johnson Controls and CM3. Their contact is as follows: Bill Lawrence VP of Security CM3 Building Solutions Inc. Cell: 215-970-4041 Johnson Controls service number. 866-412-8080 | Lionel Owona | MCCLOSKEY MECHANICAL CONTRACTOR INC | 4/3/2023 11:39 AM | 4/3/2023 1:51 PM | Bidder Asking Question | Bidder Asking Question |

| | | | | | | | | | |
|--------------------------|---|--|------------------|--|---|--------------------|------------------------|------------------------|------------------------|
| <input type="checkbox"/> | Is the roof under warranty? If so, please specify who holds the warranty. | The District is unaware of any warranties. | Lionel Owona | MCCLOSKEY MECHANICAL CONTRACTOR INC | 4/3/2023 11:41 AM | 4/3/2023 1:52 PM | Bidder Asking Question | Bidder Asking Question | |
| <input type="checkbox"/> | What is the basis of design for the "VRF HEAT RECOVERY BOX SCHEDULE"? | The basis of design for the VRF system is LG. The model number for the recovery boxes is on the schedules. | Lionel Owona | MCCLOSKEY MECHANICAL CONTRACTOR INC | 4/4/2023 10:04 AM | 4/4/2023 1:51 PM | Bidder Asking Question | Bidder Asking Question | |
| <input type="checkbox"/> | Is there a possibility of extending the bid to the following week? It would be greatly appreciated. | At this time there is no plan to extend the bidding period. | Erica Maychuk | Trefz Mechanical, Inc. | 4/6/2023 10:55 AM | 4/6/2023 2:15 PM | Bidder Asking Question | Bidder Asking Question | |
| <input type="checkbox"/> | 1. Plumbing demo plans show existing gas to be demolished entirely back to existing meter (meter demo by gas company), is there existing gas serving kitchen equipment that is to remain? | | Erica Maychuk | Trefz Mechanical, Inc. | 4/6/2023 2:08 PM | | Bidder Asking Question | Bidder Asking Question | |
| <input type="checkbox"/> | 2. Plumbing new work and single line show gas to be extended to all new rooftop/eru units. Is there existing gas serving kitchen equipment that will need to be reconnected? | | Erica Maychuk | Trefz Mechanical, Inc. | 4/6/2023 2:08 PM | | Bidder Asking Question | Bidder Asking Question | |
| <input type="checkbox"/> | 3. Plumbing drawing P501 schedules is blank, is this drawing applicable? | Drawing P501 is not needed. | Erica Maychuk | Trefz Mechanical, Inc. | 4/6/2023 2:08 PM | 4/7/2023 11:04 AM | Bidder Asking Question | Bidder Asking Question | |
| <input type="checkbox"/> | 4. Plumbing drawing P601 single line, gas riser diagram note #3 calls for all exterior gas piping to be painted. Is this the responsibility of the GC contract? | Painting will not be required. | Erica Maychuk | Trefz Mechanical, Inc. | 4/6/2023 2:09 PM | 4/7/2023 11:05 AM | Bidder Asking Question | Bidder Asking Question | |
| <input type="checkbox"/> | spec section Metal ducts 233113-5 states all duct lined except exhaust | Per the drawings, "ALL OUTSIDE AIR DUCTWORK SHALL HAVE MINIMUM 2" EXTERNAL FIBERGLASS DUCTWRAP INSULATION and "THE FIRST 10'-0" OF RETURN DUCTWORK FROM THE HANDLER SHALL HAVE 1" OF INTERNAL ACOUSTICAL LINING" | Erica Maychuk | Trefz Mechanical, Inc. | 4/6/2023 2:10 PM | 4/10/2023 11:42 AM | Bidder Asking Question | Bidder Asking Question | |
| <input type="checkbox"/> | spec section Insulation 230713-14 states blanket or board insulation. which is correct | Blanket insulation is preferred for concealed ducts. Exposed square ductwork should board insulation. If round duct work is proposed, double wall duct shall be utilized. | Erica Maychuk | Trefz Mechanical, Inc. | 4/6/2023 2:10 PM | 4/10/2023 11:42 AM | Bidder Asking Question | Bidder Asking Question | |
| <input type="checkbox"/> | Is each individual trade responsible for their own cutting and patching? | Each contractor is responsible for their own cutting and patching. | Jim Conlin | L.J. Paoella Construction, Inc. | 4/6/2023 2:43 PM | 4/7/2023 11:03 AM | Bidder Asking Question | Bidder Asking Question | |
| <input type="checkbox"/> | spec section Metal ducts 233113-5 states all duct lined except exhaust. spec section Insulation 230713-14 states blanket or board insulation. which is correct | Per the drawings, "ALL OUTSIDE AIR DUCTWORK SHALL HAVE MINIMUM 2" EXTERNAL FIBERGLASS DUCTWRAP INSULATION and "THE FIRST 10'-0" OF RETURN DUCTWORK FROM THE HANDLER SHALL HAVE 1" OF INTERNAL ACOUSTICAL LINING" | Erica Maychuk | Trefz Mechanical, Inc. | 4/6/2023 3:20 PM | 4/7/2023 11:06 AM | Bidder Asking Question | Bidder Asking Question | |
| <input type="checkbox"/> | After reviewing the contract documents it seems that the Owner may want to entertain installing Fixed Modular Laminate Clad Casework and Components in lieu of the casework specified. We have attached a sample specification for your review and consideration. | The system may be submitted as a substitution request and that the district has reviewed it and finds it an acceptable substitution. | Larry Jr Paoella | L.J. Paoella Construction, Inc. | Fixed Modular Laminate Clad Casework and Components.pdf | 4/7/2023 10:46 AM | 4/10/2023 11:17 AM | Bidder Asking Question | Bidder Asking Question |
| <input type="checkbox"/> | Will you except Peerless windows model #G641 & G611 for this project? Attached product info. As they are not listed as one of the approved vendors | The Peerless window system is an acceptable alternative. The contractor is required to verify that the system will be compatible with the approved design plans. | Jim Conlin | L.J. Paoella Construction, Inc. | G611ProjectIn.pdf | 4/7/2023 2:18 PM | 4/10/2023 11:42 AM | Bidder Asking Question | Bidder Asking Question |
| <input type="checkbox"/> | Is this being bid as a Single Prime or Multiple Primes? | This project is Multi-Prime. See Addenda 01 for more details. | James Dolan | Dolan Mechanical, Inc. | 4/7/2023 2:31 PM | 4/7/2023 2:33 PM | Bidder Asking Question | Bidder Asking Question | |



April 6, 2023

Mr. Michael Galante, PE, PP, CME
MG Engineering Associates, LLC
334 W. Front Street
Media, PA 19063

RE: Hazardous Materials Investigation
Chester Upland School District – Toby Farms School
E2S Project 1465.0001

Dear Galante:

Element Environmental Solutions, Inc. (E2S) was contracted by MG Engineering Associates, LLC to perform a comprehensive hazardous materials investigation in support of the proposed renovations to the Toby Farms School (Chester Upland School District), located at 201 Bridgewater Road, Brookhaven, Pennsylvania. The purpose of the investigation was to identify any hazardous materials that exist at the building, both interior and exterior, to determine what regulatory actions, if any, must be taken prior to the scheduled renovations to the building.

Introduction

Representatives from E2S were on site on Monday, March 20, 2023, to perform the initial hazardous materials investigation and sampling, and returned on Thursday, March 23, 2023, for follow-up investigations and sampling. The investigation included a visual inspection and sampling for asbestos-containing materials (ACM), a lead-based paint (LBP) inspection, a visual inspection for mercury and PCB-containing devices and equipment, PCB in caulk sampling, and any other potentially hazardous or environmentally regulated materials. Our representatives, Messrs. David Bertsch, Michael Seifrit, and Andrew Houck, are Environmental Protection Agency (EPA) certified Asbestos Building Inspectors and are licensed as such by the Pennsylvania Department of Labor and Industry (Pa DLI). Mr. Bertsch is also an EPA-certified and PA-licensed Asbestos Management Planner and Lead Inspector/Risk Assessor. See Appendix B for copies of licenses.

Summary

E2S representatives performed an initial walkthrough of the existing Toby Farms School, which included interior and exterior of the original 1963 section and the 1966 addition, to locate suspect ACM, perform the LBP testing, and locate suspect light ballasts, light tubes, electronic devices, etc., and documented all findings on field data forms. E2S utilized project drawings provided by MG Engineering Associates, LLC, for existing building layouts and scope of the renovations. Based upon the visual inspection, bulk samples were collected of suspect ACM and were submitted to an accredited laboratory for asbestos analysis by Polarized Light Microscopy (PLM). The laboratory utilized for this project was: EMSL Analytical, Inc. located in Cinnaminson, New Jersey. EMSL is an American Industrial Hygiene Association (AIHA) and National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory for asbestos PLM analysis.

Samples were not collected of suspect materials for mercury or liquid PCB's (ballasts, transformer oil, etc.) due to destructive sampling methods required and potential electrical hazards; however, E2S visually inspected labels and devices for documentation pertaining to the content of the materials. If required, assumptions were made to err on the side of caution when handling and disposing of these materials. Two (2) composite samples of exterior caulk were collected for bulk PCB analysis, one (1) sample from the 1963 building exterior and one (1) sample from the 1966 building exterior.

The results and findings of the investigation are summarized below and on the referenced tables, for each material referenced above.

Asbestos

The following suspect materials were identified and assumed to contain asbestos at EPA-regulated levels (>1%):

- *Brown 9" x 9" Floor Tile* (see below)*
- *Green 9" x 9" Floor Tile* (see below)*
- *Chalkboard/Tack-board Adhesive (not sampled, demolition required to remove a board)*
- *Stage Light Wiring (not sampled, electrical hazard)*
- *Boiler/AHU Interiors (suspect materials that were not accessible at the time of inspection)*

The following suspect materials were identified, sampled, and determined to contain asbestos at EPA-regulated levels (>1%):

- **Boiler Door Mud (Boiler Room - Exterior of AHU 1 at Door Front)**
- **Pipe Penetration Mud (Boiler Room - Exterior of AHU 2)**
- **Blue/Green 9" x 9" Floor Tile**
- **Brown w/Speckles 1' x 1' Floor Tile**
- **Green 1' x 1' Floor Tile**
- **Tan 9" x 9" Floor Tile**
- **Tar-Coated Mud Fittings on Fiberglass-Insulated Pipe (Tar Layer – Brown/Black)**

The following suspect materials were identified, sampled, and determined **NOT** to contain asbestos at EPA-regulated levels (>1%):

- Mastic Ends on Fiberglass-Insulated Pipe (FGIP)
- Mud Fittings on FGIP
- Interior Fire Brick (AHU 1 and AHU 2)
- Interior Seam Mud (AHU 1 and AHU 2)
- Rough Plaster Ceiling (Boiler Room)
- Boiler Breeching Insulation
- Foil-Wrapped Fiberglass Pipe Insulation (1963/1966)
- Window Panel Insulation (1963/1966)
- Exterior Door and Window Caulk (1963/1966)
- Exterior Window Glazing (1963)
- Brown 9" x 9" Floor Tile*

- 9" x 9" Floor Tile Mastic (Black) – Associated with all colors of 9" x 9" floor tile
- Roof Drain Fitting Insulation
- Green 9" x 9" Floor Tile*
- Mastic Coating on Fiberglass Fitting Insulation (Mastic and Insulation)
- Roofing Debris on Ceiling Tiles
- Interior Window Panel Caulk
- 1' x 1' Floor Tile Mastic (Black/Yellow) – Associated with all colors of 1' x 1' floor tile
- White w/Gray Speckles 1' x 1' Floor Tile (appears to be newer)
- Yellow 1' x 1' Floor Tile (appears to be newer)
- 2' x 4' Ceiling Tile (1963/1966)
- Smooth Ceiling Plaster (Skim and Base Coats)
- Blue w/Streaks 1' x 1' Floor Tile (appears to be newer)

*Brown and Green 9" x 9" floor tiles tested None Detected for asbestos via PLM Analysis (see Table 1), but are assumed to be ACM based on positive PLM analysis results for the Blue/Green and Tan 9" x 9" floor tiles (similar materials installed in 1963 during the same construction project).

**Roofing material was not sampled during this investigation. If roof sampling is requested, E2S recommends a roofing contractor be on site to patch any locations that are sampled.

Please refer to Table 1 for a summary of asbestos bulk sample analytical results, and to Table 2 for a summary of findings and cost estimates for abatement of identified and assumed ACM.

Lead

E2S performed lead-based paint testing of various painted surfaces and components throughout Toby Farms School. Testing was performed using a SciAps hand-held lead analyzer, Model X-550 and Serial Number 00493, using X-Ray Fluorescence (XRF) state-of-the-art technology. Testing was performed in accordance with applicable EPA and HUD standards and guidelines pertaining to lead-based paint inspections. The EPA/HUD definition of LBP (1.0 mg/cm²) was used as a threshold to identify LBP.

The following painted surfaces were identified, tested, and determined to contain lead at EPA/HUD regulated, lead-based paint (LPB) levels, as defined above:

- Throughout Bathrooms (1963) – Ceramic Wall Tiles (Various Colors)
- Multi-Purpose Room/Cafe (1963) – Stage Railing (Left and Right)
- Throughout Building (1963/1966) – Structural Steel
- Throughout Building (1966) – Interior Window Frames

All other painted surfaces and components tested were determined **NOT** to contain lead at EPA/HUD lead-based paint (LPB) levels, as defined above, however some components did contain detectable levels of lead (Refer to Table 3 – XRF Results for specific locations and components tested). Surfaces containing any amounts of lead may be regulated by Occupational Health and Safety Administration (OSHA) and all construction work that impacts painted components containing lead shall be performed in accordance with the OSHA Lead-in Construction Standard (29 CFR 1926.62), as applicable to the work being performed; and a proper waste management plan shall be utilized to certify that the waste is tested for hazardous waste classification, as applicable, and properly disposed or recycled.

Contractors working on the project are responsible for fulfilling all applicable OSHA requirements pertaining to lead, as well as all other applicable federal, state or local requirements or regulations pertaining to lead-in construction.

PCB's, Mercury, and Other Suspect Hazardous Materials

Light ballasts were randomly inspected, and ballasts visually checked were all determined to be electronic ballasts with the "No PCB's" notation, and varied by manufacturer: Sylvania Quicktronic, Keystone, and Magnetek Triad for those ballasts inspected. However, not all ballasts were checked, and PCB ballasts (ballasts not labeled "No PCB's") may be present. The lighting systems were of various type, and types of ballasts varied depending on type of light fixtures. The ballasts which are demarcated as non-PCB containing may be recycled as non-PCB ballasts in accordance with applicable industry standards for those types of ballasts (electronic ballasts). PCB ballasts, if encountered, should be recycled as PCB ballasts in a facility that accepts PCB ballasts as universal waste. Any leaking ballasts would need to be disposed of as hazardous waste unless testing is performed to classify the waste for PCB's.

Fluorescent light tubes were also visually inspected, and those visually checked were determined to be either Topaz, Sylvania Octron Eco, or G.E. T8 Starcoat Ecotubes, and are assumed to contain amounts of mercury that could deem them "hazardous waste" for disposal purposes (some tubes were labeled with the Mercury elemental symbol Hg). E2S recommends that all tubes be removed prior to demolition of the lighting fixtures, if included in the renovation scope of work, and sent for recycling as universal waste, to a facility that accepts mercury-containing light tubes as part of their universal waste program. Please refer to Table 2 for a summary of findings and cost estimates for recycling of suspected hazardous materials.

E2S visually inspected accessible electrical and mechanical equipment and devices and did not identify any transformers or switchgear suspected of containing PCB's; **however, we did not have access to the room labeled as TRANS 127 on the drawing supplied to us (A300a), which has an exterior entrance and is likely an electrical/transformer room. If access to the room can be confirmed through CUSD, we can return to the site and inspect that room, along with the following rooms that were also inaccessible: WASH 126, STORAGE 113A, STOR 140, and GYM STORAGE 145 (all labeled as such on A300a).**

E2S also identified numerous thermostats, thermometers, gauges, high voltage switches, exit signs, smoke detectors, refrigerants, etc. that are assumed to contain various suspect hazardous materials and recommend that they be recycled at a facility that accepts each particular material for recycling, or disposed of properly in accordance with applicable requirements, if recycling is not an option.

Two (2) composite samples of exterior caulk were collected for bulk PCB analysis, one (1) from the 1963 section and one (1) from the 1966 section of the building, and were analyzed via Method SW 846-8082A for the nine (9) most common PCB types, in a laboratory accredited for bulk PCB analysis. PCBs were detected in Sample No. TF-3/20-01 PCB (1963) for Aroclor-1254 (34 mg/kg, ppm) and Aroclor-1260 (33 mg/kg, ppm), at levels below the EPA threshold for PCB bulk product waste for caulk of greater than or equal to (\geq) 50 mg/kg, or parts per million (ppm). PCBs were detected in Sample No. TF-3/20-02 PCB (1966) for Aroclor-1254 (1.4 mg/kg, ppm) and Aroclor-1260 (0.88 mg/kg, ppm), at levels

well below the EPA threshold for PCB bulk product waste for caulk of greater than or equal to (\geq) 50 mg/kg, or parts per million (ppm). No PCBs were detected for Aroclor-1016, 1221, 1232, 1242, 1248, 1262, and 1268 in either sample. Please refer to Table 4 – PCB in Caulk Sample Analytical Results for a summary of exterior caulk composite sample analytical results for PCBs.

Laboratory analytical reports with PLM asbestos bulk sample results and PCB in Caulk (Solid) sample results from EMSL can be found in Appendix A, and accreditations (certifications and licenses) for E2S representatives can be found in Appendix B, along with XRF instrumentation calibration.

Thank you for the opportunity to present Element Environmental Solutions (E2S) as a partner in your environmental management efforts. Should you have questions or require additional information, please contact me.

Sincerely,
E2S, Inc.

A handwritten signature in black ink, appearing to read "David C. Bertsch", with a horizontal line extending to the right.

David C. Bertsch
Operations Manager, IAQ

Table 1 - Asbestos Bulk Sample Analytical Results - Chester Upland School District - Toby Farms School

| Sample Number | Location | Material Description | Analytical Result (PLM) |
|--------------------------------|--|---|-------------------------|
| TF-3/20-01BK | Boiler Room | Mastic End on FGIP | None Detected |
| TF-3/20-02BK | Boiler Room at AHU 2 | Mud Fitting on FGIP (Circ. Water) | <1% Chrysotile |
| TF-3/20-03BK | Boiler Room at AHU 2 | Mud Fitting on FGIP (Hot Water) | <1% Chrysotile |
| TF-3/20-04BK | Boiler Room at AHU 2 | Mud Fitting on FGIP (Cold Water) | <1% Chrysotile |
| TF-3/20-05BK | Boiler Room - AHU 1 Inside Fire Box | Interior Fire Brick | None Detected |
| TF-3/20-06BK | Boiler Room - AHU 1 Inside Fire Box | Interior Seam Mud | None Detected |
| TF-3/20-07BK | Boiler Room - AHU 1 at Door Front | Boiler Door Mud (Exterior) | 25% Chrysotile |
| TF-3/20-08BK | Boiler Room - AHU 2 Exterior | Pipe Penetration Mud (Exterior) | 15% Chrysotile |
| TF-3/20-09BK | Boiler Room | Rough Plaster Ceiling | None Detected |
| TF-3/20-10BK | Boiler Room - AHU 2 Fire Box | Interior Fire Brick | None Detected |
| TF-3/20-11BK | Boiler Room - AHU 2 Fire Box | Interior Seam Mud | None Detected |
| TF-3/20-12BK | Boiler Room - AHU 2 | Boiler Breeching Insulation | None Detected |
| TF-3/20-13BK | Boiler Room - AHU 2 Front | Foil-Wrapped Fiberglass Pipe Insulation | None Detected |
| TF-3/20-14BK | Boiler Room - AHU 1 | Boiler Breeching Insulation | None Detected |
| TF-3/20-15BK | Exterior (1966) | Window Panel Insulation | None Detected |
| TF-3/20-16BK | Exterior (1966) | Window Caulk | None Detected |
| TF-3/20-17BK | Exterior (1966) | Door Caulk | None Detected |
| TF-3/20-18BK | Exterior (1963) | Window Caulk | None Detected |
| TF-3/20-19BK | Exterior (1963) | Door Caulk | None Detected |
| TF-3/20-20BK | Exterior (1963) | Window Glazing | None Detected |
| TF-3/20-21BK | Exterior (1963) | Window Panel Insulation | None Detected |
| TF-3/20-22BK-Floor Tile | Room A1 | Brown 9" x 9" Floor Tile | None Detected |
| TF-3/20-22BK-Mastic | Room A1 | Brown 9" x 9" Floor Tile Mastic (Black) | None Detected |
| TF-3/20-23BK-Floor Tile | Room A5 | Blue/Green 9" x 9" Floor Tile | 2% Chrysotile |
| TF-3/20-23BK-Mastic | Room A5 | Blue/Green 9" x 9" Floor Tile Mastic (Black) | None Detected |
| TF-3/20-24BK | Stage | Roof Drain Fitting Insulation | None Detected |
| TF-3/20-25BK-Floor Tile | MPR/Cafeteria | Green 9" x 9" Floor Tile | None Detected |
| TF-3/20-25BK-Mastic | MPR/Cafeteria | Green 9" x 9" Floor Tile Mastic (Black) | None Detected |
| TF-3/20-26BK | Maintenance Storage | Mud Fitting on FGIP | None Detected |
| TF-3/20-27BK | Hallway (1966) | Mastic Coating on Fiberglass Fitting Insulation | None Detected |
| TF-3/20-28BK | Hallway (1966) | Roofing Debris on Ceiling Tile | None Detected |
| TF-3/20-29BK | Hallway (1966) | Roof Drain Fitting Insulation | None Detected |
| TF-3/20-30BK | Hallway (1966) | Foil-Wrapped Fiberglass Pipe Insulation | None Detected |
| TF-3/20-31BK | Room 22 | Interior Window Panel Caulk | None Detected |
| TF-3/20-32BK-Floor Tile | Hallway (1966) | Brown with Speckles 1' x 1' Floor Tile | 3% Chrysotile |

FGIP = Fiberglass Insulated Pipe

EPA Definition of Asbestos-Containing Material (ACM) = >1% (line items BOLD)

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Table 1 - Asbestos Bulk Sample Analytical Results - Chester Upland School District - Toby Farms School

| Sample Number | Location | Material Description | Analytical Result (PLM) |
|--------------------------------|---------------------------|---|-------------------------|
| TF-3/20-32BK-Mastic | Hallway (1966) | Brown with Speckles 1' x 1' Floor Tile Mastic (Black) | None Detected |
| TF-3/20-33BK | Room C18 | Green 1' x 1' Floor Tile | 2% Chrysotile |
| TF-3/20-34BK | Room C22 | White with Gray Speckles 1' x 1' Floor Tile | None Detected |
| TF-3/20-35BK-Floor Tile | Storage/Office | Yellow 1' x 1' Floor Tile | None Detected |
| TF-3/20-35BK-Mastic | Storage/Office | Yellow 1' x 1' Floor Tile Mastic (Yellow) | None Detected |
| TF-3/20-36BK | Hallway (1966) | 2' x 4' Ceiling Tile | None Detected |
| TF-3/20-37BK-Floor Tile | Hallway (1963) | Tan 9" x 9" Floor Tile | 3% Chrysotile |
| TF-3/20-37BK-Mastic | Hallway (1963) | Tan 9" x 9" Floor Tile Mastic (Black) | None Detected |
| TF-3/20-38BK | Room B9 | 2' x 4' Ceiling Tile | None Detected |
| TF-3/20-39BK-Skim Coat | Room B9 Bathroom | Smooth Ceiling Plaster - Skim Coat | None Detected |
| TF-3/20-39BK-Base Coat | Room B9 Bathroom | Smooth Ceiling Plaster - Base Coat | None Detected |
| TF-3/23-01BK-Tar | Hallway at A6 | Tar-Coated Mud Fitting on FGIP (Tar Layer - Black) | 3% Chrysotile |
| TF-3/23-01BK-Insulation | Hallway at A6 | Tar-Coated Mud Fitting on FGIP (Insulation - Gray) | None Detected |
| TF-3/23-02BK-Tar | Hallway at B9 | Tar-Coated Mud Fitting on FGIP (Tar Layer - Brown/Black) | 6% Chrysotile |
| TF-3/23-02BK-Insulation | Hallway at B9 | Tar-Coated Mud Fitting on FGIP (Insulation - Gray) | None Detected |
| TF-3/23-03BK | Hallway at A6 | Mud Fitting on FGIP | None Detected |
| TF-3/23-04BK | Hallway at B9 | Mud Fitting on FGIP | None Detected |
| TF-3/23-05BK-FT | Storage Room | Blue with Streaks 1' x 1' Floor Tile | None Detected |
| TF-3/23-05BK-Mastic | Storage Room | Blue with Streaks 1' x 1' Floor Tile Mastic (Black/Yellow) | None Detected |
| TF-3/23-06BK | Hallway at Stair 1 (1966) | Mastic Coating on Fiberglass Fitting Insulation | None Detected |
| TF-3/23-07BK-Mastic | Hallway at C17 (1966) | Mastic Coating on F.G. Fitting Insulation (Mastic) | None Detected |
| TF-3/23-07BK-Insulation | Hallway at C17 (1966) | Mastic Coating on F.G. Fitting Insulation (Insulation) | None Detected |

FGIP = Fiberglass Insulated Pipe

EPA Definition of Asbestos-Containing Material (ACM) = >1% (line items BOLD)

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Table 2 - Summary of Findings and Estimated Removal Costs - Chester Upland School District - Toby Farms School

| Location | Material Description | Estimated Quantity | Estimated Cost |
|---|---|--------------------|---------------------|
| Throughout School (1963) | 9" x 9" Floor Tile (Blue/Green, Tan, Brown* and Green*) - Some Under Carpet | 23,990 S.F. | \$84,000.00 |
| Throughout School (1966) | 1' x 1' Floor Tile (Brown w/Speckles and Green) - Some Under Carpet | 17,070 S.F. | \$60,000.00 |
| Throughout School (1963) | Tar-Coated Mud Fittings on FGIP (Tar Layer - Brown/Black) | Not Quantified** | \$5,000.00 |
| Boiler Room - AHU 1 at Door Front | Boiler Door Mud (Exterior) | 5 L.F. | \$500.00 |
| Boiler Room - AHU 2 Exterior | Pipe Penetration Mud (Exterior) | 2 S.F. | \$500.00 |
| Throughout School (1963/1966) | Chalkboard/Tack-board Adhesive (Assumed ACM) | Not Quantified*** | \$30,000.00 |
| Stage (1963) | Stage Lights and Associated Wiring (Assumed ACM) | 2 sets of lights | \$2,000.00 |
| Contractor Site Mobilization/Demobilization Fees | | 2 | \$3,000.00 |
| TOTAL - Asbestos Abatement - Estimated Removal Costs (Includes all ACM, known and assumed) | | | \$185,000.00 |
| Throughout School (1963/1966) | Mercury-Containing Light Tubes (Assumed) | 1,500 tubes | \$1,500.00 |
| Throughout School (1963/1966) | Light Ballasts (Electronic - No PCB's) | 400 ballasts | \$800.00 |
| Throughout School (1963/1966) | Miscellaneous Equipment/Devices | Not Quantified | \$1,000.00 |
| TOTAL - Hazardous Materials (Recycling fees only, does not include labor for removal or transportation fees) | | | \$3,300.00 |

*No asbestos was detected in the Brown and Green 9" x 9" floor tile, but materials are assumed ACM based on bulk sample analysis results of the Blue/Green and Tan 9" x 9" floor tile

**Estimated cost based on \$50/fitting for an estimated 100 fittings, actual quantity of fittings may vary and can be confirmed if abatement is required

***Estimated cost based on \$1,000/classroom for an estimated 30 classrooms (2 CB/TB's per classroom), actual quantity of boards may vary and can be confirmed if abatement is required

Table3 - XRF Results - Chester Upland School District - Toby Farms School

| Date | Test # | Floor | Room | Component | Side | Substrate | Paint Color | Condition | Result (mg/cm ²) | Precision (+/-) | Pass Fail Standard |
|-----------|-----------------------------|----------|--------------------------|--------------------------|------|--------------|-------------|-----------|------------------------------|-----------------|--------------------|
| 20-Mar-23 | STANDARDIZATION/CALIBRATION | | | | | | | | | | PASS |
| 20-Mar-23 | STANDARDIZATION/CALIBRATION | | | | | | | | | | PASS |
| 20-Mar-23 | 3 | First | Boiler Room | Wall | N | Block | Light Blue | Intact | 0.02 | 0.01 | Negative |
| 20-Mar-23 | 4 | First | Boiler Room | Wall | E | Block | Light Blue | Intact | 0.03 | 0.01 | Negative |
| 20-Mar-23 | 5 | First | Boiler Room | Wall | S | Block | Light Blue | Intact | 0.02 | 0.01 | Negative |
| 20-Mar-23 | 6 | First | Boiler Room | Wall | W | Block | Light Blue | Intact | 0.01 | 0.01 | Negative |
| 20-Mar-23 | 7 | First | Boiler Room | Floor | N/A | Concrete | Gray | Intact | 0.03 | 0.01 | Negative |
| 20-Mar-23 | 8 | First | Boiler Room | Landing Floor | N/A | Concrete | Green | Intact | 0.04 | 0.01 | Negative |
| 20-Mar-23 | 9 | First | Boiler Room | Landing Railing | N/A | Metal | Gray | Intact | 0.38 | 0.02 | Negative |
| 20-Mar-23 | 10 | First | Boiler Room | Door | N | Metal | Gray | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 11 | First | Boiler Room | Door Frame | N | Metal | Gray | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 12 | First | Boiler Room | Chase Door | W | Metal | Gray | Intact | 0.25 | 0.01 | Negative |
| 20-Mar-23 | 13 | First | Boiler Room | Incinerator Door | W | Metal | Dark Gray | Intact | 0.03 | 0.01 | Negative |
| 20-Mar-23 | 14 | First | Boiler Room | Incinerator Wall | W | Brick | White | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 15 | Exterior | Exterior | High Voltage Door | N | Metal | Blue | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 16 | Exterior | Exterior | Door | W | Metal | Blue | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 17 | Exterior | Exterior | Door Frame | W | Metal | Blue | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 18 | Exterior | Exterior | Window Panel | S | Metal | Peach | Intact | 0.06 | 0.01 | Negative |
| 20-Mar-23 | 36 | First | Faculty Room | Wall | N | Block | Light Green | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 37 | First | Faculty Room | Wall | E | Block | Light Green | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 38 | First | Faculty Room | Wall | S | Block | Light Green | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 39 | First | Faculty Room | Wall | S | Block | Light Green | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 40 | First | Faculty Room | Door Frame | N | Wood | Green | Intact | 0.07 | 0.03 | Negative |
| 20-Mar-23 | 41 | First | Faculty Room | Window Sill | S | Ceramic Tile | Light Green | Intact | 0.02 | 0.01 | Negative |
| 20-Mar-23 | 42 | First | Faculty Room | Structural Steel | S | Metal | Light Green | Intact | 0.04 | 0.04 | Negative |
| 20-Mar-23 | 43 | First | Faculty Men's Bathroom | Wall | N | Ceramic Tile | Mint Green | Intact | 6.33 | 0.08 | Positive |
| 20-Mar-23 | 44 | First | Faculty Men's Bathroom | Wall | E | Ceramic Tile | Mint Green | Intact | 6.23 | 0.08 | Positive |
| 20-Mar-23 | 45 | First | Faculty Men's Bathroom | Wall | S | Ceramic Tile | Mint Green | Intact | 6.18 | 0.08 | Positive |
| 20-Mar-23 | 46 | First | Faculty Men's Bathroom | Wall | W | Ceramic Tile | Mint Green | Intact | 6.43 | 0.08 | Positive |
| 20-Mar-23 | 47 | First | Faculty Men's Bathroom | Door | W | Wood | Stained | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 48 | First | Faculty Men's Bathroom | Door Frame | W | Metal | Gray | Intact | 0.04 | 0.01 | Negative |
| 20-Mar-23 | 49 | First | Faculty Men's Bathroom | Ceiling | N/A | Plaster | Light Green | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 50 | First | Faculty Men's Bathroom | Floor | N/A | Ceramic Tile | Green | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 51 | First | Faculty Men's Bathroom | Stall | N/A | Metal | Light Gray | Intact | 0.05 | 0.02 | Negative |
| 20-Mar-23 | 52 | First | Faculty Women's Bathroom | Wall | N | Ceramic Tile | Pink | Intact | 5.73 | 0.07 | Positive |
| 20-Mar-23 | 53 | First | Faculty Women's Bathroom | Wall | S | Ceramic Tile | Pink | Intact | 5.56 | 0.07 | Positive |
| 20-Mar-23 | 54 | First | Gym Hallway | Door Frame | S | Metal | Blue | Intact | 0.03 | 0.01 | Negative |
| 20-Mar-23 | 55 | First | Gym Hallway | Door | S | Wood | Stained | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 56 | First | Gym Hallway | Door Frame | N | Metal | Blue | Intact | 0.06 | 0.02 | Negative |
| 20-Mar-23 | 57 | First | Gym Hallway | Door | N | Wood | Stained | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 58 | First | Multi-Purpose Room | Lunch Table Wall Storage | S | Metal | Gray | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 59 | First | Multi-Purpose Room | Structural Steel | S | Metal | Blue | Intact | 0.09 | 0.01 | Negative |
| 20-Mar-23 | 60 | First | Multi-Purpose Room | Structural Steel | N | Metal | Blue | Intact | 0.09 | 0.01 | Negative |
| 20-Mar-23 | 61 | First | Multi-Purpose Room | Door Frame | N | Metal | Blue | Intact | 0.03 | 0.01 | Negative |
| 20-Mar-23 | 62 | First | Multi-Purpose Room | Stage Floor | N/A | Wood | Stained | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 63 | First | Multi-Purpose Room | Stage Storage Doors | N/A | Wood | Blue | Intact | 0.03 | 0.01 | Negative |
| 20-Mar-23 | 64 | First | Multi-Purpose Room | Stage Railing Left | N/A | Metal | Gray | Intact | 0.97 | 0.03 | Inconclusive |
| 20-Mar-23 | 65 | First | Multi-Purpose Room | Stage Railing Right | N/A | Metal | Gray | Intact | 1.01 | 0.02 | Positive |
| 20-Mar-23 | 66 | First | Garage Storage | Wall | N | Block | Light Green | Intact | 0.01 | 0.01 | Negative |
| 20-Mar-23 | 67 | First | Garage Storage | Floor | N/A | Concrete | Gray | Intact | 0.03 | 0.01 | Negative |
| 20-Mar-23 | 68 | First | Garage Storage | Door | S | Metal | Blue | Intact | 0.28 | 0.06 | Negative |

Table3 - XRF Results - Chester Upland School District - Toby Farms School

| Date | Test # | Floor | Room | Component | Side | Substrate | Paint Color | Condition | Result (mg/cm ²) | Precision (+/-) | Pass Fail Standard |
|-----------|--------|-------|-------------------------|-----------------------|------|--------------|-------------|-----------|------------------------------|-----------------|--------------------|
| 20-Mar-23 | 69 | First | Garage Storage | Door Frame | S | Metal | Blue | Intact | 0.06 | 0.01 | Negative |
| 20-Mar-23 | 70 | First | Garage Storage | Ceiling | N/A | Plaster | White | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 71 | First | Music Room | Ceiling Joist | N/A | Metal | Black | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 72 | First | Music Room | Wall | E | Block | White | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 73 | First | Music Room | Wall | W | Block | White | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 74 | First | Music Room | Structural Steel | N/A | Metal | Gray | Intact | 0.13 | 0.04 | Negative |
| 20-Mar-23 | 75 | First | Music Room | Interior Window Frame | N/A | Metal | White | Intact | 0.1 | 0.01 | Negative |
| 20-Mar-23 | 76 | First | Gym | Table Frame Wall | N | Metal | Gray | Intact | 0.3 | 0.01 | Negative |
| 20-Mar-23 | 77 | First | Gym | Structural Steel | N | Metal | Blue | Intact | 2.32 | 0.04 | Positive |
| 20-Mar-23 | 78 | First | Gym | Table Frame Wall | N | Metal | Gray | Intact | 0.5 | 0.02 | Negative |
| 20-Mar-23 | 79 | First | Gym | Structural Steel | S | Metal | Blue | Intact | 3.86 | 0.06 | Positive |
| 20-Mar-23 | 80 | First | Gym | Door Frame | E | Metal | Blue | Intact | 0.45 | 0.02 | Negative |
| 20-Mar-23 | 81 | First | Men's Bathroom at Lobby | Wall | N | Ceramic Tile | Mint Green | Intact | 6.24 | 0.08 | Positive |
| 20-Mar-23 | 82 | First | Men's Bathroom at Lobby | Radiator Cover | N | Metal | Gray | Intact | 0.12 | 0.04 | Negative |
| 20-Mar-23 | 83 | First | Men's Bathroom at Lobby | Floor | N/A | Ceramic Tile | Green | Intact | 0.01 | 0.01 | Negative |
| 20-Mar-23 | 84 | First | Men's Bathroom at Lobby | Stall | N/A | Metal | Gray | Intact | 0.12 | 0.04 | Negative |
| 20-Mar-23 | 85 | First | Men's Bathroom at Lobby | Door Frame | S | Metal | Blue | Intact | 0.04 | 0.01 | Negative |
| 20-Mar-23 | 86 | First | Room A1 | Radiator Cover | N | Metal | Beige | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 87 | First | Room A1 | Door | N | Metal | Gray | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 88 | First | Room A1 | Wall | E | Block | Light Blue | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 89 | First | Room A1 | Door Frame | S | Metal | Blue | Intact | 0.16 | 0.01 | Negative |
| 20-Mar-23 | 90 | First | Room A1 | Wall | W | Block | Light Blue | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 91 | First | Room A3 | Radiator Cover | N | Metal | Beige | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 92 | First | Room A3 | Door | N | Metal | Gray | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 93 | First | Room A3 | Wall | E | Block | Light Blue | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 94 | First | Room A3 | Door Frame | S | Metal | Blue | Intact | 0.03 | 0.01 | Negative |
| 20-Mar-23 | 95 | First | Room A3 | Door | S | Wood | Stained | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 96 | First | Room A3 | Wall | W | Block | Light Blue | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 97 | First | A Hallway | Interior Window Frame | N | Metal | Black | Intact | 0.03 | 0.01 | Negative |
| 20-Mar-23 | 98 | First | A Hallway | Structural Steel | N | Metal | Black | Intact | 0.14 | 0.05 | Negative |
| 20-Mar-23 | 99 | First | A Hallway | Interior Window Frame | S | Metal | Black | Intact | 0.08 | 0.03 | Negative |
| 20-Mar-23 | 100 | First | A Hallway | Structural Steel | S | Metal | Black | Intact | 0.06 | 0.03 | Negative |
| 20-Mar-23 | 101 | First | B Hallway | Interior Window Frame | N | Metal | Blue | Intact | 0.06 | 0.03 | Negative |
| 20-Mar-23 | 102 | First | B Hallway | Structural Steel | N | Metal | Blue | Intact | 0.04 | 0.01 | Negative |
| 20-Mar-23 | 103 | First | B Hallway | Interior Window Frame | S | Metal | Blue | Intact | 0.04 | 0.01 | Negative |
| 20-Mar-23 | 104 | First | B Hallway | Structural Steel | S | Metal | Blue | Intact | 0.08 | 0.01 | Negative |
| 20-Mar-23 | 105 | First | Room B10 | Radiator Cover | N | Metal | Gray | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 106 | First | Room B10 | Door | N | Metal | Gray | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 107 | First | Room B10 | Wall | E | Block | Light Green | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 108 | First | Room B10 | Door Frame | S | Metal | Blue | Intact | 0.27 | 0.01 | Negative |
| 20-Mar-23 | 109 | First | Room B10 | Door | S | Wood | Stained | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 110 | First | Room B10 | Wall | W | Block | Light Green | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 111 | First | B9/B10 Bathroom | Wall | N | Ceramic Tile | Mint Green | Intact | 6.27 | 0.08 | Positive |
| 20-Mar-23 | 112 | First | B9/B10 Bathroom | Wall | E | Ceramic Tile | Mint Green | Intact | 6.32 | 0.08 | Positive |
| 20-Mar-23 | 113 | First | B9/B10 Bathroom | Wall | S | Ceramic Tile | Mint Green | Intact | 6.3 | 0.08 | Positive |
| 20-Mar-23 | 114 | First | B9/B10 Bathroom | Wall | W | Ceramic Tile | Mint Green | Intact | 6.32 | 0.08 | Positive |
| 20-Mar-23 | 115 | First | B9/B10 Bathroom | Ceiling | N/A | Plaster | White | Intact | 0.02 | 0.01 | Negative |
| 20-Mar-23 | 116 | First | B9/B10 Bathroom | Floor | N/A | Ceramic Tile | Green | Intact | 0.01 | 0.01 | Negative |
| 20-Mar-23 | 117 | First | Room B12 | Radiator Cover | S | Metal | Gray | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 118 | First | Room B12 | Door | S | Metal | Gray | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 119 | First | Room B12 | Wall | W | Block | Light Green | Intact | 0 | 0.01 | Negative |

Table3 - XRF Results - Chester Upland School District - Toby Farms School

| Date | Test # | Floor | Room | Component | Side | Substrate | Paint Color | Condition | Result (mg/cm ²) | Precision (+/-) | Pass Fail Standard |
|-----------|--------|--------|-----------------------------|-----------------------|------|--------------|-------------|-----------|------------------------------|-----------------|--------------------|
| 20-Mar-23 | 120 | First | Room B12 | Door Frame | N | Metal | Blue | Intact | 0.1 | 0.03 | Negative |
| 20-Mar-23 | 121 | First | Room B12 | Door | N | Wood | Stained | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 122 | First | Room B12 | Wall | E | Block | Light Green | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 123 | First | Room B12 | Interior Window Frame | N | Metal | Gray | Intact | 0.13 | 0.01 | Negative |
| 20-Mar-23 | 124 | First | Stairwell at Room 23 | Ceiling | N/A | Plaster | Cream | Intact | 0.05 | 0.05 | Negative |
| 20-Mar-23 | 125 | First | Stairwell at Room 23 | Door | N | Metal | Gray | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 126 | First | Stairwell at Room 23 | Radiator Cover | E | Metal | Blue | Intact | 0.06 | 0.01 | Negative |
| 20-Mar-23 | 127 | First | Stairwell at Room 23 | Stair Railing | N/A | Metal | Blue | Intact | 0.15 | 0.04 | Negative |
| 20-Mar-23 | 128 | First | Stairwell at Room 23 | Stair Stringer | N/A | Metal | Blue | Intact | 0.39 | 0.06 | Negative |
| 20-Mar-23 | 129 | First | Stairwell at Room 23 | Stair Riser | N/A | Metal | Blue | Intact | 0.07 | 0.01 | Negative |
| 20-Mar-23 | 130 | First | Room 23 | Radiator Cover | N | Metal | Beige | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 131 | First | Room 23 | Wall | E | Block | White | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 132 | First | Room 23 | Structural Steel | E | Metal | White | Intact | 0.29 | 0.06 | Negative |
| 20-Mar-23 | 133 | First | Room 23 | Door Frame | S | Metal | Blue | Intact | 0.63 | 0.08 | Negative |
| 20-Mar-23 | 134 | First | Room 23 | Wall | S | Block | White | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 135 | First | Room 23 | Wall | W | Block | White | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 136 | First | Custodial Room at Room 23 | Floor | N/A | Concrete | Gray | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 137 | First | Room C17 | Wall | N | Block | Light Green | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 138 | First | Room C17 | Structural Steel | N | Metal | Light Green | Intact | 0.52 | 0.12 | Negative |
| 20-Mar-23 | 139 | First | Room C17 | Radiator Cover | E | Metal | Gray | Intact | 0.01 | 0.01 | Negative |
| 20-Mar-23 | 140 | First | Room C17 | Wall | S | Block | Light Green | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 141 | First | Room C17 | Door Frame | W | Metal | Blue | Intact | 0.67 | 0.08 | Negative |
| 20-Mar-23 | 142 | First | Room C17 | Door | W | Wood | Stained | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 143 | First | Room C17 | Interior Window Frame | W | Metal | Gray | Intact | 1.02 | 0.03 | Positive |
| 20-Mar-23 | 144 | First | Room C17 | Interior Window Frame | W | Metal | Gray | Intact | 0.95 | 0.09 | Inconclusive |
| 20-Mar-23 | 145 | First | C Hallway | Interior Window Frame | S | Metal | Blue | Intact | 1.15 | 0.03 | Positive |
| 20-Mar-23 | 146 | First | C Hallway | Interior Window Frame | N | Metal | Blue | Intact | 1.64 | 0.12 | Positive |
| 20-Mar-23 | 147 | First | Men's Bathroom at C Hallway | Wall | W | Ceramic Tile | White | Intact | 0.04 | 0.01 | Negative |
| 20-Mar-23 | 148 | First | Stairwell at Room 23 | Window Panel | S | Metal | Blue | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 149 | Second | Room D30 | Radiator Cover | N | Metal | Gray | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 150 | Second | Room D30 | Wall | E | Block | Light Blue | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 151 | Second | Room D30 | Door Frame | S | Metal | Blue | Intact | 0.62 | 0.02 | Negative |
| 20-Mar-23 | 152 | Second | Room D30 | Door | S | Wood | Stained | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 153 | Second | Room D30 | Wall | W | Block | Light Blue | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 154 | Second | Room D30 | Interior Window Frame | S | Metal | Gray | Intact | 0.34 | 0.06 | Negative |
| 20-Mar-23 | 155 | Second | Room D30 | Ceiling Joist | N/A | Metal | Red Brown | Intact | 0.03 | 0.01 | Negative |
| 20-Mar-23 | 156 | Second | D Hallway | Interior Window Frame | S | Metal | Blue | Intact | 0.84 | 0.08 | Inconclusive |
| 20-Mar-23 | 157 | Second | D Hallway | Interior Window Frame | N | Metal | Blue | Intact | 0.93 | 0.03 | Inconclusive |
| 20-Mar-23 | 158 | Second | Room D24 | Radiator Cover | S | Metal | Gray | Intact | 0.01 | 0.01 | Negative |
| 20-Mar-23 | 159 | Second | Room D24 | Wall | W | Block | Orange | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 160 | Second | Room D24 | Structural Steel | W | Metal | Orange | Intact | 2.11 | 0.24 | Positive |
| 20-Mar-23 | 161 | Second | Room D24 | Door Frame | N | Metal | Blue | Intact | 0.52 | 0.07 | Negative |
| 20-Mar-23 | 162 | Second | Room D24 | Door | N | Wood | Stained | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 163 | Second | Room D24 | Interior Window Frame | N | Metal | Gray | Intact | 0.29 | 0.05 | Negative |
| 20-Mar-23 | 164 | Second | Room D24 | Wall | E | Block | Orange | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 165 | First | Stairwell at Room D24 | Stair Railing | N/A | Metal | Blue | Intact | 0.17 | 0.05 | Negative |
| 20-Mar-23 | 166 | First | Stairwell at Room D24 | Stair Stringer | N/A | Metal | Blue | Intact | 0.2 | 0.01 | Negative |
| 20-Mar-23 | 167 | First | Stairwell at Room D24 | Stair Riser | N/A | Metal | Blue | Intact | 0.07 | 0.01 | Negative |
| 20-Mar-23 | 168 | First | Stairwell at Room D24 | Radiator Cover | E | Metal | Blue | Intact | 0.16 | 0.04 | Negative |
| 20-Mar-23 | 169 | First | Stairwell at Room D24 | Ceiling | N/A | Plaster | White | Intact | 0.01 | 0.01 | Negative |
| 20-Mar-23 | 170 | First | Stairwell at Room D24 | Door | E | Metal | Gray | Intact | 0 | 0.01 | Negative |

Table3 - XRF Results - Chester Upland School District - Toby Farms School

| Date | Test # | Floor | Room | Component | Side | Substrate | Paint Color | Condition | Result (mg/cm ²) | Precision (+/-) | Pass Fail Standard |
|-----------|--------|-------|------------------------|-----------|------|---------------|-------------|-----------|------------------------------|-----------------|--------------------|
| 20-Mar-23 | 171 | First | Former Kitchen Storage | Wall | N | Ceramic Block | Beige | Intact | 0.07 | 0.01 | Negative |
| 20-Mar-23 | 172 | First | Former Kitchen Storage | Wall | S | Ceramic Block | Beige | Intact | 0.04 | 0.01 | Negative |
| 20-Mar-23 | 173 | First | Former Kitchen Storage | Floor | N/A | Ceramic Tile | Tan | Intact | 0 | 0.01 | Negative |
| 20-Mar-23 | 174 | First | Former Kitchen Storage | Ceiling | N/A | Plaster | White | Intact | 0 | 0.01 | Negative |

Table 4 - PCB in Caulk (Bulk Sample) Analytical Results - Chester Upland School District - Toby Farms School

| Sample Number | Location | Material Description | PCB Concentration | Reporting Limit |
|----------------------|--------------------------------------|-----------------------------|--------------------------|------------------------|
| TF-3/20-01 PCB | Exterior - 1963 Building (Composite) | Exterior Caulk (Bulk/Solid) | 34 mg/kg (ppm) | Aroclor-1254 |
| TF-3/20-01 PCB | Exterior - 1963 Building (Composite) | Exterior Caulk (Bulk/Solid) | 33 mg/kg (ppm) | Aroclor-1260 |
| TF-3/20-02 PCB | Exterior - 1966 Building (Composite) | Exterior Caulk (Bulk/Solid) | 1.4 mg/kg (ppm) | Aroclor-1254 |
| TF-3/20-02 PCB | Exterior - 1966 Building (Composite) | Exterior Caulk (Bulk/Solid) | 0.88 mg/kg (ppm) | Aroclor-1260 |

* Both samples were analyzed for the nine (9) most common PCB forms: Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260, Aroclor-1262 and Aroclor-1268. PCB's were detected in both samples for Aroclor-1254 and Aroclor-1260, but at levels below 50 mg/kg (parts per million), the EPA threshold level for PCB-containing bulk product waste for caulk. The other seven (7) remaining PCB aroclor forms were Not Detected in either of the samples.

Appendix A

Laboratory Analytical Reports – EMSL Analytical, Inc.

Asbestos Bulk - Polarized Light Microscopy (PLM)

Bulk PCB in Caulk – Method SW 846-8082A



EMSL Analytical, Inc.

5221 Militia Hill Road Plymouth Meeting, PA 19462

Tel/Fax: (610) 828-3102 / (610) 828-3122

<http://www.EMSL.com> / plymouthmeetinglab@emsl.com

EMSL Order: 182301146

Customer ID: ELES42

Customer PO: 1465.0001

Project ID:

Attention: David Bertsch
Element Environmental Solutions, Inc.
61 Willow Street
PO Box 921
Adamstown, PA 19501

Project: CUSD-TOBY FARMS SCHOOL

Phone: (717) 484-5111

Fax:

Received Date: 03/21/2023 9:00 AM

Analysis Date: 03/23/2023

Collected Date: 03/20/2023

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

| Sample | Description | Appearance | Non-Asbestos | | Asbestos |
|--------------------------------|---|--|---------------|--------------------------|----------------|
| | | | % Fibrous | % Non-Fibrous | % Type |
| TF-3/20-01BK 182301146-0001 | BOILER ROOM - MASTIC END ON FGIP | White Non-Fibrous Homogeneous | 15% Cellulose | 85% Non-fibrous (Other) | None Detected |
| TF-3/20-02BK 182301146-0002 | BOILER ROOM - @ AHU 2 - MUD FITTING ON FGIP(CIRC WATER) | Gray Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | <1% Chrysotile |
| TF-3/20-03BK 182301146-0003 | BOILER ROOM - @ AHU 2 - MUD FITTING ON FGIP(HOT WATER) | Gray Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | <1% Chrysotile |
| TF-3/20-04BK 182301146-0004 | BOILER ROOM - @ AHU 2 - MUD FITTING ON FGIP(COLD WATER) | Gray Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | <1% Chrysotile |
| TF-3/20-05BK 182301146-0005 | BOILER ROOM - AHU1 INSIDE FIRE BOX - INTERIOR FIRE BRICK | Tan Non-Fibrous Homogeneous | 2% Cellulose | 98% Non-fibrous (Other) | None Detected |
| TF-3/20-06BK 182301146-0006 | BOILER ROOM - AHU1 INSIDE FIRE BOX - SEAM MUD - FIRE BRICK | Tan Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| TF-3/20-07BK 182301146-0007 | BOILER ROOM - AHU1 EXT MUD @DOOR FRONT - BOILER DOCK MUD | Gray Non-Fibrous Homogeneous | | 75% Non-fibrous (Other) | 25% Chrysotile |
| TF-3/20-08BK 182301146-0008 | BOILER ROOM - AHU2 - EXTERIOR - PIPE PENETRATION MUD | Brown Non-Fibrous Homogeneous | | 85% Non-fibrous (Other) | 15% Chrysotile |
| TF-3/20-09BK 182301146-0009 | BOILER ROOM - ROUGH PLASTER CEILING | Tan Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| TF-3/20-10BK 182301146-0010 | BOILER ROOM - @AHU2 FIREFOX - INTERIOR FIRE BRICK | Brown Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| TF-3/20-11BK 182301146-0011 | BOILER ROOM -@AHU2 - FIRE BOX - SEAM MUD - FIRE BOX | Yellow Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| TF-3/20-12BK 182301146-0012 | BOILER ROOM -@AHU2 - BOILER BREECHING | Brown/Tan Non-Fibrous Homogeneous | 25% Cellulose | 75% Non-fibrous (Other) | None Detected |
| TF-3/20-13BK 182301146-0013 | BOILER ROOM -@AHU2 FRONT - FGIP WRAP (FOIL) | Brown/Silver Non-Fibrous Homogeneous | 10% Cellulose | 90% Non-fibrous (Other) | None Detected |

Initial report from: 03/23/2023 16:45:44



EMSL Analytical, Inc.

5221 Militia Hill Road Plymouth Meeting, PA 19462

Tel/Fax: (610) 828-3102 / (610) 828-3122

<http://www.EMSL.com> / plymouthmeetinglab@emsl.com

EMSL Order: 182301146

Customer ID: ELES42

Customer PO: 1465.0001

Project ID:

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

| Sample | Description | Appearance | Non-Asbestos | | Asbestos |
|---|---|---|---------------|--------------------------|---------------|
| | | | % Fibrous | % Non-Fibrous | % Type |
| TF-3/20-14BK 182301146-0014 | BOILER ROOM -@AHU1 - BREECHING | Gray Non-Fibrous Homogeneous | 10% Min. Wool | 90% Non-fibrous (Other) | None Detected |
| TF-3/20-15BK 182301146-0015 | EXTERIOR - 1966 - WINDOW PANEL INSULATION | Brown Non-Fibrous Homogeneous | 75% Cellulose | 25% Non-fibrous (Other) | None Detected |
| TF-3/20-16BK 182301146-0016 | EXTERIOR - 1966 - WINDOW CAULK | Gray Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| TF-3/20-17BK 182301146-0017 | EXTERIOR - 1966 - DOOR CAULK | Gray Non-Fibrous Homogeneous | 3% Cellulose | 97% Non-fibrous (Other) | None Detected |
| TF-3/20-18BK 182301146-0018 | EXTERIOR - 1963 - WINDOW CAULK | White Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| TF-3/20-19BK 182301146-0019 | EXTERIOR - 1963 - DOOE CAULK | White Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| TF-3/20-20BK 182301146-0020 | EXTERIOR - 1963 - WINDOW GLAZING | White Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| TF-3/20-21BK 182301146-0021 | EXTERIOR - 1963 - WINDOW PANEL INSULATION | Tan Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| TF-3/20-22BK-Floor Tile 182301146-0022 | ROOM A1 - BROWN 9X9 FT/M | Brown Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| TF-3/20-22BK-Mastic 182301146-0022A | ROOM A1 - BROWN 9X9 FT/M | Black Non-Fibrous Homogeneous | 20% Cellulose | 80% Non-fibrous (Other) | None Detected |
| TF-3/20-23BK-Floor Tile 182301146-0023 | ROOM A5 - BLUE/GREEN 9X9 FT/M | Green Non-Fibrous Homogeneous | | 98% Non-fibrous (Other) | 2% Chrysotile |
| TF-3/20-23BK-Mastic 182301146-0023A | ROOM A5 - BLUE/GREEN 9X9 FT/M | Black Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| TF-3/20-24BK 182301146-0024 | STAGE - ROOF DRAIN FITTING | Gray Non-Fibrous Homogeneous | 25% Min. Wool | 75% Non-fibrous (Other) | None Detected |
| TF-3/20-25BK-Floor Tile 182301146-0025 | MPR/CAFÉ - GREEN 9X9 FT/M | Green Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| TF-3/20-25BK-Mastic 182301146-0025A | MPR/CAFÉ - GREEN 9X9 FT/M | Black Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| TF-3/20-26BK 182301146-0026 | MAINT-STORAGE - MUD FITTING ON FGP | Gray Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| TF-3/20-27BK 182301146-0027 | HALLWAY 1966 - MASTIC COATING ON F.G FITTING | Yellow Non-Fibrous Homogeneous | 10% Cellulose | 90% Non-fibrous (Other) | None Detected |
| TF-3/20-28BK 182301146-0028 | HALLWAY 1966 - ROOFING DEBRID ON CEILING TILE | Brown/Black Non-Fibrous Homogeneous | 5% Cellulose | 95% Non-fibrous (Other) | None Detected |
| TF-3/20-29BK 182301146-0029 | HALLWAY 1966 - ROOF DRAIN FITTING | White Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |

Initial report from: 03/23/2023 16:45:44



EMSL Analytical, Inc.

5221 Militia Hill Road Plymouth Meeting, PA 19462

Tel/Fax: (610) 828-3102 / (610) 828-3122

<http://www.EMSL.com> / plymouthmeetinglab@emsl.com

EMSL Order: 182301146

Customer ID: ELES42

Customer PO: 1465.0001

Project ID:

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

| Sample | Description | Appearance | Non-Asbestos | | Asbestos |
|---|---|--|--------------------------------|--------------------------|---------------|
| | | | % Fibrous | % Non-Fibrous | % Type |
| TF-3/20-30BK <small>182301146-0030</small> | HALLWAY 1966 - FGIP WRAP (FOIL_ | Black/Yellow Non-Fibrous Homogeneous | 10% Cellulose 40% Min. Wool | 50% Non-fibrous (Other) | None Detected |
| TF-3/20-31BK <small>182301146-0031</small> | RM 22 - INTERIOR WINDOW PANEL CAULK | Gray Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| TF-3/20-32BK-Floor Tile <small>182301146-0032</small> | HALLWAY 1966 - BROWN W/SPEC 1X1 FT/M | Brown Non-Fibrous Homogeneous | | 97% Non-fibrous (Other) | 3% Chrysotile |
| TF-3/20-32BK-Mastic <small>182301146-0032A</small> | HALLWAY 1966 - BROWN W/SPEC 1X1 FT/M | Black Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| TF-3/20-33BK <small>182301146-0033</small> | RM C18 - GREEN 1X1 FT/M | Green Non-Fibrous Homogeneous | | 98% Non-fibrous (Other) | 2% Chrysotile |
| TF-3/20-34BK <small>182301146-0034</small> | RM C22 - WHITE W/GRAY SPEC 1X1 FT/M | Black Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| TF-3/20-35BK-Floor Tile <small>182301146-0035</small> | STORE/OFFICE - YELLOW 1X1 FT/M | Beige Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| TF-3/20-35BK-Mastic <small>182301146-0035A</small> | STORE/OFFICE - YELLOW 1X1 FT/M | Yellow Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| TF-3/20-36BK <small>182301146-0036</small> | HALLWAY 1966 - 2X4 C.T | Tan/White Fibrous Homogeneous | 50% Cellulose 30% Min. Wool | 20% Non-fibrous (Other) | None Detected |
| TF-3/20-37BK-Floor Tile <small>182301146-0037</small> | HALLWAY 1963 - TAN 9X9 FT/M | Tan Non-Fibrous Homogeneous | | 97% Non-fibrous (Other) | 3% Chrysotile |
| TF-3/20-37BK-Mastic <small>182301146-0037A</small> | HALLWAY 1963 - TAN 9X9 FT/M | Black Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| TF-3/20-38BK <small>182301146-0038</small> | RM B9 - 2X4 C.T | Tan/White Fibrous Homogeneous | 50% Cellulose 30% Min. Wool | 20% Non-fibrous (Other) | None Detected |
| TF-3/20-39BK-Skim Coat <small>182301146-0039</small> | RM B9 BATHROOM - SMOOTH CEILING PLASTER | White Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| TF-3/20-39BK-Base Coat <small>182301146-0039A</small> | RM B9 BATHROOM - SMOOTH CEILING PLASTER | Gray Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |



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EMSL Order: 182301146

Customer ID: ELES42

Customer PO: 1465.0001

Project ID:

Analyst(s)

Kevin Ream (14)

Zainab Abdussamad Millner (32)

Kevin Ream, Laboratory Manager
or Other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. Plymouth Meeting, PA NVLAP Lab Code 200699-0, Philadelphia ALL-292, VA 3333000315, AIHA LAP, LLC-IHLAP Accredited #178659

Initial report from: 03/23/2023 16:45:44

EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAININGAsbestos Bulk Building Material
Chain of Custody

EMSL Order Number (Lab Use Only):

182301146

Cinnaminson, NJ 08077
PHONE: 1-800-220-3675
FAX: (856) 786-5974

| | | | |
|---|--------------------|--|----------------------------------|
| Company: Element Environmental Solutions | | EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments** | |
| Street: 61 Willow Street PO Box 921 | | Third Party Billing requires written authorization from third party | |
| City: Adamstown | State/Province: PA | Zip/Postal Code: 19501 | Country: United States |
| Report To (Name): David Bertsch | | Telephone #: 717-484-5111 | |
| Email Address: IAQ@e2s.us | | Fax #: | Purchase Order: 1165-0001 |
| Project Name/Number: GUSD - Toby Farms School | | Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail | |
| U.S. State Samples Taken: PA | | CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt | |
| Turnaround Time (TAT) Options* - Please Check | | | |
| <input type="checkbox"/> 3 Hour <input type="checkbox"/> 6 Hour <input type="checkbox"/> 24 Hour <input checked="" type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week | | | |
| *For TEM Air 3 hr through 6 hr, please call ahead to schedule. There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide. | | | |
| PLM - Bulk (reporting limit) | | TEM - Bulk | |
| <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) | | <input type="checkbox"/> TEM EPA NOB - EPA 600/R-93/116 Section 2.5.5.1 | |
| <input type="checkbox"/> PLM EPA NOB (<1%) | | <input type="checkbox"/> NY ELAP Method 198.4 (TEM) | |
| Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) | | <input type="checkbox"/> Chatfield Protocol (semi-quantitative) | |
| Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) | | <input type="checkbox"/> TEM % by Mass - EPA 600/R-93/116 Section 2.5.5.2 | |
| <input type="checkbox"/> NIOSH 9002 (<1%) | | <input type="checkbox"/> TEM Qualitative via Filtration Prep Technique | |
| <input type="checkbox"/> NY ELAP Method 198.1 (friable in NY) | | <input type="checkbox"/> TEM Qualitative via Drop Mount Prep Technique | |
| <input type="checkbox"/> NY ELAP Method 198.6 NOB (non-friable-NY) | | Other | |
| <input type="checkbox"/> OSHA ID-191 Modified | | <input type="checkbox"/> | |
| <input type="checkbox"/> Standard Addition Method | | | |
| <input type="checkbox"/> Check For Positive Stop - Clearly Identify Homogenous Group | | Date Sampled: 3-20-23 | |
| Samplers Name: David Bertsch | | Samplers Signature: [Signature] | |
| Sample # | HA # | Sample Location | Material Description |
| TF-3/20-01BK | | Boiler Room | Mastic End on FGIP |
| -02BK | | - @ AHU 2 | Mud Fitting on FGIP (Circ water) |
| -03BK | | - | (Hot water) |
| -04BK | | - | (Cold water) |
| -05BK | | - AHU 1 Inside Fire Box | Interior Fire Brick |
| -06BK | | - | Seam Mud - Fire Box |
| -07BK | | - AHU 1 - Ext Mud @ Door Front | Boiler Door Mud |
| -08BK | | - AHU 2 - Exterior | Pipe Penetration |
| -09BK | | - | Rough Plaster Ceiling |
| -10BK | | - @ AHU 2 Fire Box | Interior Fire Brick |
| Client Sample # (s): | | Total # of Samples: 39 | |
| Relinquished (Client): [Signature] | | Date: 3/20/23 | Time: 9pm drop box |
| Received (Lab): Dummaya Nicholson | | Date: 3-20-23 | Time: 9am |
| Comments/Special Instructions: | | OB | |



Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (Lab Use Only):

Cinnaminson, NJ 08077

PHONE: 1-800-220-3675

FAX: (856) 786-5974

EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRADING

182301146

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

| Sample # | HA # | Sample Location | Material Description |
|---------------------------------|------|--------------------------------|---------------------------------|
| TF-3/20-11BK | | Boiler Room @ AHU 2 - Fire Box | Seam Mud - Fire Box |
| | 12BK | - @ AHU 2 | Boiler Breaching |
| | 13BK | - @ AHU 2 front | FGIP wrap (Foil) |
| | 14BK | ↓ - @ AHU 1 | Breaching |
| | 15BK | Exterior - 1966 | Window Panel Insulation |
| | 16BK | ↓ | Window Caulk |
| | 17BK | ↓ | Door Caulk |
| | 18BK | Exterior - 1963 | Window Caulk |
| | 19BK | ↓ | Door Caulk |
| | 20BK | ↓ | Window Glazing |
| | 21BK | ↓ | Window Panel Insulation |
| | 22BK | Room A1 | Brown 9x9 FT/M |
| | 23BK | Room A5 | Blue/Green 9x9 FT/M |
| | 24BK | Stage | Roof Drain Fitting |
| | 25BK | MPR / Cafe | Green 9x9 FT/M |
| | 26BK | Maint. Storage | Mud Fitting on F&P |
| | 27BK | Hallway 1966 | Mastic Coating on F&P - Fitting |
| | 28BK | ↓ | Roofing Detail on Ceiling Tile |
| | 29BK | ↓ | Roof Drain Fitting |
| | 30BK | ↓ | FGIP wrap (Foil) |
| | 31BK | Room 22 | Interior window Panel Caulk |
| | 32BK | Hallway 1966 | Brown w/Spec 1x1 FT/M |
| | 33BK | Rm C18 | Green 1x1 FT/M |
| ↓ | 34BK | Rm C22 | white w/Gray Spec 1x1 FT/M |
| *Comments/Special Instructions: | | | |



EMSL ANALYTICAL, INC.
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Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (Lab Use Only):

1 8 2 3 0 1 1 4 6

Cinnaminson, NJ 08077

PHONE: 1-800-220-3675

FAX: (856) 786-5974

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

[illegible]



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / cinnasblab@EMSL.com

EMSL Order: 042307347

Customer ID: ELES42

Customer PO: 1465.0001

Project ID:

Attention: Dave Bertsch
Element Environmental Solutions, Inc.
61 Willow Street
PO Box 921
Adamstown, PA 19501

Project: CUSD - Toby Farms School

Phone: (717) 484-5111

Fax:

Received Date: 03/25/2023 11:40 AM

Analysis Date: 03/28/2023 - 03/29/2023

Collected Date: 03/23/2023

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

| Sample | Description | Appearance | Non-Asbestos | | Asbestos |
|---|---|--|----------------|--------------------------|---------------|
| | | | % Fibrous | % Non-Fibrous | % Type |
| TF-3/3-01BK-Tar 042307347-0001 | Hallway At A6 - Tar Coated Mud Fitting On FGIP | Black Non-Fibrous Homogeneous | | 97% Non-fibrous (Other) | 3% Chrysotile |
| TF-3/3-01BK-Insulation 042307347-0001A | Hallway At A6 - Tar Coated Mud Fitting On FGIP | Gray Fibrous Homogeneous | 30% Min. Wool | 70% Non-fibrous (Other) | None Detected |
| TF-3/3-02BK-Tar 042307347-0002 | Hallway At B9 - Tar Coated Mud Fitting On FGIP | Brown/Black Non-Fibrous Homogeneous | | 94% Non-fibrous (Other) | 6% Chrysotile |
| TF-3/3-02BK-Insulation 042307347-0002A | Hallway At B9 - Tar Coated Mud Fitting On FGIP | Gray Fibrous Homogeneous | 30% Min. Wool | 70% Non-fibrous (Other) | None Detected |
| TF-3/3-03BK 042307347-0003 | Hallway At A6 - Mud Fitting On FGIP | White Non-Fibrous Homogeneous | 30% Min. Wool | 70% Non-fibrous (Other) | None Detected |
| TF-3/3-04BK 042307347-0004 | Hallway At B9 - Mud Fitting On FGIP | Gray/White Fibrous Homogeneous | 30% Min. Wool | 70% Non-fibrous (Other) | None Detected |
| TF-3/3-05BK-FT 042307347-0005 | Storage Room - Blue With Streaks 1x1 FT | Blue Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| TF-3/3-05BK-Mastic 042307347-0005A | Storage Room - Mastic | Black/Yellow Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| TF-3/3-06BK 042307347-0006 | Hallway At Stair 1 - Mastic Coating On FG Fitting | White Fibrous Homogeneous | 60% Cellulose | 40% Non-fibrous (Other) | None Detected |
| TF-3/3-07BK-Mastic 042307347-0007 | Hallway At C17 - Mastic Coating On FG Fitting | Tan Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| TF-3/3-07BK-Insulation 042307347-0007A | Hallway At C17 - Mastic Coating On FG Fitting | Yellow Fibrous Homogeneous | 100% Min. Wool | | None Detected |



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EMSL Order: 042307347

Customer ID: ELES42

Customer PO: 1465.0001

Project ID:

Analyst(s)

Andrew Burke (6)

Dave Poitras (3)

Keishla Vazquez Caraballo (2)

Samantha Rundstrom, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA LAP, LLC-IHLAP Lab 100194, NJ DEP 03036, PA ID# 68-00367, LA #04127

Initial report from: 03/29/2023 12:46:40

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (Lab Use Only):

042307347

Cinnaminson, NJ 08077

PHONE: 1-800-220-3675

FAX: (856) 786-5974

| Company: Element Environmental Solutions | | EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments** | |
|--|--------------------|--|---------------------------|
| Street: 61 Willow Street PO Box 921 | | Third Party Billing requires written authorization from third party | |
| City: Adamstown | State/Province: PA | Zip/Postal Code: 19501 | Country: United States |
| Report To (Name): David Bertsch | | Telephone #: 717-484-5111 | |
| Email Address: IAQ@e2s.us | | Fax #: | Purchase Order: 1465.0001 |
| Project Name/Number: CUSD - Toby Farms School | | Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail | |
| U.S. State Samples Taken: PA | | CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt | |
| Turnaround Time (TAT) Options* - Please Check | | | |
| <input type="checkbox"/> 3 Hour <input type="checkbox"/> 6 Hour <input type="checkbox"/> 24 Hour <input checked="" type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week | | | |
| *For TEM Air 3 hr through 6 hr, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide. | | | |
| PLM - Bulk (reporting limit) | | TEM - Bulk | |
| <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NIOSH 9002 (<1%) <input type="checkbox"/> NY ELAP Method 198.1 (friable in NY) <input type="checkbox"/> NY ELAP Method 198.6 NOB (non-friable-NY) <input type="checkbox"/> OSHA ID-191 Modified <input type="checkbox"/> Standard Addition Method | | <input type="checkbox"/> TEM EPA NOB - EPA 600/R-93/116 Section 2.5.5.1 <input type="checkbox"/> NY ELAP Method 198.4 (TEM) <input type="checkbox"/> Chatfield Protocol (semi-quantitative) <input type="checkbox"/> TEM % by Mass - EPA 600/R-93/116 Section 2.5.5.2 <input type="checkbox"/> TEM Qualitative via Filtration Prep Technique <input type="checkbox"/> TEM Qualitative via Drop Mount Prep Technique Other <input type="checkbox"/> | |
| <input type="checkbox"/> Check For Positive Stop - Clearly Identify Homogenous Group | | Date Sampled: 3/23/2023 | |
| Samplers Name: Michael Seifrit | | Samplers Signature: <i>Michael Seifrit</i> | |
| Sample # | Sample Location | Material Description | |
| TF-3/23-01BK | Hallway at A6 | Tar coated Mud Fitting on FGIP | |
| - 02BK | Hallway at B9 | Tar Coated Mud Fitting on FGIP | |
| - 03BK | Hallway at A6 | Mud Fitting on FGIP | |
| - 04BK | Hallway at B9 | Mud Fitting on FGIP | |
| - 05BK | Storage Room | Blue with streaks 1x1 FT/m | |
| - 06BK | Hallway at Stair I | Mastic Coating on FG Fitting | |
| ✓ - 07BK | Hallway at C17 | Mastic Coating on FG Fitting | |
| Client Sample # (s): - Total # of Samples: 7 | | | |
| Relinquished (Client): <i>Michael Seifrit</i> | | Date: 3/24/2023 | Time: |
| Received (Lab): <i>EDUANN</i> | | Date: 3-25-23 | Time: 11:40am |
| Comments/Special Instructions: <i>7308</i> | | | |

**EMSL Analytical, Inc.**

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax: 856-786-5974
EMSL-CIN-01

EMSL Order ID: 012352763**LIMS Reference ID:** AB52763**EMSL Customer ID:** ELES42

April 05, 2023

David Bertsch

Element Environmental Solutions, Inc. [ELES42]

61 Willow Street, PO Box 921

Adamstown, PA 19501

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 3/22/2023. The results are tabulated on the attached pages for the following client designated project:

Toby Farms School

The reference number for these samples is EMSL Order #: AB52763 . Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact the lab at 856-858-4800.

Owen McKenna Laboratory Manager or other approved signatory

Table of Contents

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**EMSL Analytical, Inc.**

200 Route 130, Cinnaminson, NJ, 08077
 Telephone: 856-858-4800 Fax: 856-786-5974
 EMSL-CIN-01

EMSL Order ID: 012352763**LIMS Reference ID:** AB52763**EMSL Customer ID:** ELES42

Attention: David Bertsch
 Element Environmental Solutions, Inc. [ELES42]
 61 Willow Street, PO Box 921
 Adamstown, PA 19501
 (717) 484-5111
 iaq@e2s.us

Project Name: Toby Farms School
Customer PO: 1465.0001
EMSL Sales Rep: Gary Perlmutter
Received: 03/22/2023 09:30
Reported: 04/05/2023 14:40

Sample Condition on Receipt**Cooler ID:** Default Cooler**Temperature:** 19.8 °C

| | |
|------------------------|---|
| Custody Seals | Y |
| Containers Intact | Y |
| COC/Labels Agree | Y |
| Preservation Confirmed | Y |

**EMSL Analytical, Inc.**

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax: 856-786-5974
EMSL-CIN-01

EMSL Order ID: 012352763**LIMS Reference ID:** AB52763**EMSL Customer ID:** ELES42

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Adamstown, PA 19501
(717) 484-5111
iaq@e2s.us

Project Name: Toby Farms School
Customer PO: 1465.0001
EMSL Sales Rep: Gary Perlmutter
Received: 03/22/2023 09:30
Reported: 04/05/2023 14:40

Samples in this Report

| Lab ID | Sample | Matrix | Date Sampled | Date Received |
|---------------|---------------------|---------------|---------------------|----------------------|
| AB52763-01 | TF-3/20-01PCB(1963) | Solid | 03/20/2023 | 03/22/2023 |
| AB52763-02 | TF-3/20-02PCB(1966) | Solid | 03/20/2023 | 03/22/2023 |

**EMSL Analytical, Inc.**

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 EMSL-CIN-01

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 iaq@e2s.us

Project Name: Toby Farms School
Customer PO: 1465.0001
EMSL Sales Rep: Gary Perlmutter
Received: 03/22/2023 09:30
Reported: 04/05/2023 14:40

Positive Hits Summary

| Lab ID | Client ID | | | | | Sampled |
|-------------------|---------------------|--------|-----------|-------|------------------|----------------|
| AB52763-01 | TF-3/20-01PCB(1963) | | | | | 03/20/23 00:00 |
| Method | Analyte | Result | Qualifier | Unit | Analyzed | |
| SW 846-8082A | Aroclor-1254 | 34 | D | mg/kg | 03/29/2023 13:00 | |
| SW 846-8082A | Aroclor-1260 | 33 | D | mg/kg | 03/29/2023 13:00 | |
| Lab ID | Client ID | | | | | Sampled |
| AB52763-02 | TF-3/20-02PCB(1966) | | | | | 03/20/23 00:00 |
| Method | Analyte | Result | Qualifier | Unit | Analyzed | |
| SW 846-8082A | Aroclor-1254 | 1.4 | | mg/kg | 03/28/2023 16:03 | |
| SW 846-8082A | Aroclor-1260 | 0.88 | | mg/kg | 03/28/2023 16:03 | |

**EMSL Analytical, Inc.**

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 Telephone: 856-858-4800 Fax: 856-786-5974
 EMSL-CIN-01

EMSL Order ID: 012352763**LIMS Reference ID:** AB52763**EMSL Customer ID:** ELES42

Attention: David Bertsch
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 Adamstown, PA 19501
 (717) 484-5111
 iaq@e2s.us

Project Name: Toby Farms School
Customer PO: 1465.0001
EMSL Sales Rep: Gary Perlmutter
Received: 03/22/2023 09:30
Reported: 04/05/2023 14:40

Sample Results

Sample: TF-3/20-01PCB(1963)
 AB52763-01 (Solid)

| Analyte | Result | Q | DF | RL | Units | Prepared Date/Time | Analyzed Date/Time | Prep/Analyst Initials | Prep Method | Analytical Method |
|--|-----------------|----------|----|---------------|-------|--------------------|--------------------|-----------------------|-------------|-------------------|
| GC-SVOA | | | | | | | | | | |
| Aroclor-1016 | ND | D | 20 | 5.0 | mg/kg | 03/27/23 14:01 | 03/29/23 13:00 | DDI/AJ | SW846 3540C | SW 846-8082A |
| Aroclor-1221 | ND | D | 20 | 5.0 | mg/kg | 03/27/23 14:01 | 03/29/23 13:00 | DDI/AJ | SW846 3540C | SW 846-8082A |
| Aroclor-1232 | ND | D | 20 | 5.0 | mg/kg | 03/27/23 14:01 | 03/29/23 13:00 | DDI/AJ | SW846 3540C | SW 846-8082A |
| Aroclor-1242 | ND | D | 20 | 5.0 | mg/kg | 03/27/23 14:01 | 03/29/23 13:00 | DDI/AJ | SW846 3540C | SW 846-8082A |
| Aroclor-1248 | ND | D | 20 | 5.0 | mg/kg | 03/27/23 14:01 | 03/29/23 13:00 | DDI/AJ | SW846 3540C | SW 846-8082A |
| Aroclor-1254 | 34 | D | 20 | 5.0 | mg/kg | 03/27/23 14:01 | 03/29/23 13:00 | DDI/AJ | SW846 3540C | SW 846-8082A |
| Aroclor-1260 | 33 | D | 20 | 5.0 | mg/kg | 03/27/23 14:01 | 03/29/23 13:00 | DDI/AJ | SW846 3540C | SW 846-8082A |
| Aroclor-1262 | ND | D | 20 | 5.0 | mg/kg | 03/27/23 14:01 | 03/29/23 13:00 | DDI/AJ | SW846 3540C | SW 846-8082A |
| Aroclor-1268 | ND | D | 20 | 5.0 | mg/kg | 03/27/23 14:01 | 03/29/23 13:00 | DDI/AJ | SW846 3540C | SW 846-8082A |
| Surrogate(s) | Recovery | Q | | Limits | | | | | | |
| <i>Surrogate: Tetrachloro-m-xylene</i> | 64% | | | 21-123 | | 03/27/23 14:01 | 03/29/23 13:00 | DDI/AJ | SW846 3540C | SW 846-8082A |
| <i>Surrogate: Decachlorobiphenyl</i> | 121% | | | 17-128 | | 03/27/23 14:01 | 03/29/23 13:00 | DDI/AJ | SW846 3540C | SW 846-8082A |

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 Telephone: 856-858-4800 Fax: 856-786-5974
 EMSL-CIN-01

EMSL Order ID: 012352763**LIMS Reference ID:** AB52763**EMSL Customer ID:** ELES42

Attention: David Bertsch
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Project Name: Toby Farms School
Customer PO: 1465.0001
EMSL Sales Rep: Gary Perlmutter
Received: 03/22/2023 09:30
Reported: 04/05/2023 14:40

Sample Results**(Continued)****Sample: TF-3/20-02PCB(1966)****AB52763-02 (Solid)**

| Analyte | Result | Q | DF | RL | Units | Prepared Date/Time | Analyzed Date/Time | Prep/Analyst Initials | Prep Method | Analytical Method |
|--|-----------------|----------|----|---------------|-------|--------------------|--------------------|-----------------------|-------------|-------------------|
| GC-SVOA | | | | | | | | | | |
| Aroclor-1016 | ND | | 1 | 0.24 | mg/kg | 03/27/23 14:01 | 03/28/23 16:03 | DDI/ti | SW846 3540C | SW 846-8082A |
| Aroclor-1221 | ND | | 1 | 0.24 | mg/kg | 03/27/23 14:01 | 03/28/23 16:03 | DDI/ti | SW846 3540C | SW 846-8082A |
| Aroclor-1232 | ND | | 1 | 0.24 | mg/kg | 03/27/23 14:01 | 03/28/23 16:03 | DDI/ti | SW846 3540C | SW 846-8082A |
| Aroclor-1242 | ND | | 1 | 0.24 | mg/kg | 03/27/23 14:01 | 03/28/23 16:03 | DDI/ti | SW846 3540C | SW 846-8082A |
| Aroclor-1248 | ND | | 1 | 0.24 | mg/kg | 03/27/23 14:01 | 03/28/23 16:03 | DDI/ti | SW846 3540C | SW 846-8082A |
| Aroclor-1254 | 1.4 | | 1 | 0.24 | mg/kg | 03/27/23 14:01 | 03/28/23 16:03 | DDI/ti | SW846 3540C | SW 846-8082A |
| Aroclor-1260 | 0.88 | | 1 | 0.24 | mg/kg | 03/27/23 14:01 | 03/28/23 16:03 | DDI/ti | SW846 3540C | SW 846-8082A |
| Aroclor-1262 | ND | | 1 | 0.24 | mg/kg | 03/27/23 14:01 | 03/28/23 16:03 | DDI/ti | SW846 3540C | SW 846-8082A |
| Aroclor-1268 | ND | | 1 | 0.24 | mg/kg | 03/27/23 14:01 | 03/28/23 16:03 | DDI/ti | SW846 3540C | SW 846-8082A |
| Surrogate(s) | Recovery | Q | | Limits | | | | | | |
| <i>Surrogate: Tetrachloro-m-xylene</i> | 23% | | | 21-123 | | 03/27/23 14:01 | 03/28/23 16:03 | DDI/ti | SW846 3540C | SW 846-8082A |
| <i>Surrogate: Decachlorobiphenyl</i> | 24% | | | 17-128 | | 03/27/23 14:01 | 03/28/23 16:03 | DDI/ti | SW846 3540C | SW 846-8082A |

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 Telephone: 856-858-4800 Fax: 856-786-5974
 EMSL-CIN-01

EMSL Order ID: 012352763**LIMS Reference ID:** AB52763**EMSL Customer ID:** ELES42

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Received: 03/22/2023 09:30
Reported: 04/05/2023 14:40

Quality Control**GC-SVOA**

| Analyte | Result Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------|-------------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|
|---------|-------------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|

Batch: BBC0318 - SW846 3540C**Blank (BBC0318-BLK1)**

Prepared: 3/27/2023 Analyzed: 3/28/2023

| | | | |
|-------------------|----|------|-------|
| Aroclor-1016 | ND | 0.25 | mg/kg |
| Aroclor-1016 [2C] | ND | 0.25 | mg/kg |
| Aroclor-1221 | ND | 0.25 | mg/kg |
| Aroclor-1221 [2C] | ND | 0.25 | mg/kg |
| Aroclor-1232 | ND | 0.25 | mg/kg |
| Aroclor-1232 [2C] | ND | 0.25 | mg/kg |
| Aroclor-1242 | ND | 0.25 | mg/kg |
| Aroclor-1242 [2C] | ND | 0.25 | mg/kg |
| Aroclor-1248 | ND | 0.25 | mg/kg |
| Aroclor-1248 [2C] | ND | 0.25 | mg/kg |
| Aroclor-1254 | ND | 0.25 | mg/kg |
| Aroclor-1254 [2C] | ND | 0.25 | mg/kg |
| Aroclor-1260 | ND | 0.25 | mg/kg |
| Aroclor-1260 [2C] | ND | 0.25 | mg/kg |
| Aroclor-1262 | ND | 0.25 | mg/kg |
| Aroclor-1262 [2C] | ND | 0.25 | mg/kg |
| Aroclor-1268 | ND | 0.25 | mg/kg |
| Aroclor-1268 [2C] | ND | 0.25 | mg/kg |

Surrogate(s)

| | | | |
|---------------------------------|--------|----|--------|
| Surrogate: Tetrachloro-m-xylene | 0.5000 | 74 | 21-123 |
| Surrogate: Decachlorobiphenyl | 0.5000 | 83 | 17-128 |

Blank (BBC0318-BLK2)

Prepared: 3/27/2023 Analyzed: 3/29/2023

| | | | |
|-------------------|----|------|-------|
| Aroclor-1016 | ND | 0.25 | mg/kg |
| Aroclor-1016 [2C] | ND | 0.25 | mg/kg |
| Aroclor-1221 | ND | 0.25 | mg/kg |
| Aroclor-1221 [2C] | ND | 0.25 | mg/kg |
| Aroclor-1232 | ND | 0.25 | mg/kg |
| Aroclor-1232 [2C] | ND | 0.25 | mg/kg |
| Aroclor-1242 | ND | 0.25 | mg/kg |
| Aroclor-1242 [2C] | ND | 0.25 | mg/kg |
| Aroclor-1248 | ND | 0.25 | mg/kg |
| Aroclor-1248 [2C] | ND | 0.25 | mg/kg |
| Aroclor-1254 | ND | 0.25 | mg/kg |
| Aroclor-1254 [2C] | ND | 0.25 | mg/kg |
| Aroclor-1260 | ND | 0.25 | mg/kg |
| Aroclor-1260 [2C] | ND | 0.25 | mg/kg |
| Aroclor-1262 | ND | 0.25 | mg/kg |
| Aroclor-1262 [2C] | ND | 0.25 | mg/kg |
| Aroclor-1268 | ND | 0.25 | mg/kg |
| Aroclor-1268 [2C] | ND | 0.25 | mg/kg |

Surrogate(s)

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted."

**EMSL Analytical, Inc.**

200 Route 130, Cinnaminson, NJ, 08077
 Telephone: 856-858-4800 Fax: 856-786-5974
 EMSL-CIN-01

EMSL Order ID: 012352763**LIMS Reference ID:** AB52763**EMSL Customer ID:** ELES42

Attention: David Bertsch
 Element Environmental Solutions, Inc. [ELES42]
 61 Willow Street, PO Box 921
 Adamstown, PA 19501
 (717) 484-5111
 iaq@e2s.us

Project Name: Toby Farms School
Customer PO: 1465.0001
EMSL Sales Rep: Gary Perlmutter
Received: 03/22/2023 09:30
Reported: 04/05/2023 14:40

Quality Control (Continued)

GC-SVOA (Continued)

| Analyte | Result Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------|-------------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|
|---------|-------------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|

Batch: BBC0318 - SW846 3540C (Continued)**Blank (BBC0318-BLK2)**

Prepared: 3/27/2023 Analyzed: 3/29/2023

Surrogate(s)

Surrogate: Tetrachloro-m-xylene 0.5000 55 21-123
Surrogate: Decachlorobiphenyl 0.5000 68 17-128

LCS (BBC0318-BS1)

Prepared: 3/27/2023 Analyzed: 3/28/2023

Aroclor-1016 3.80 0.25 mg/kg 5.000 76 37-120
 Aroclor-1260 4.29 0.25 mg/kg 5.000 86 45-121

Surrogate(s)

Surrogate: Tetrachloro-m-xylene 0.5000 75 21-123
Surrogate: Decachlorobiphenyl 0.5000 83 17-128

LCS (BBC0318-BS2)

Prepared: 3/27/2023 Analyzed: 3/29/2023

Aroclor-1016 2.78 0.25 mg/kg 5.000 56 37-120
 Aroclor-1260 3.11 0.25 mg/kg 5.000 62 45-121

Surrogate(s)

Surrogate: Tetrachloro-m-xylene 0.5000 54 21-123
Surrogate: Decachlorobiphenyl 0.5000 63 17-128

Matrix Spike (BBC0318-MS1)**Source: AB52763-01**

Prepared: 3/27/2023 Analyzed: 3/28/2023

Aroclor-1016 4.10 0.25 mg/kg 4.950 ND 83 30-133
 Aroclor-1260 45.7 R3, E 0.25 mg/kg 4.950 27.5 367 30-134

Surrogate(s)

Surrogate: Tetrachloro-m-xylene 0.4950 65 21-123
Surrogate: Decachlorobiphenyl 0.4950 101 17-128

Matrix Spike Dup (BBC0318-MSD1)**Source: AB52763-01**

Prepared: 3/27/2023 Analyzed: 3/28/2023

Aroclor-1016 6.12 MSR 0.25 mg/kg 5.000 ND 122 30-133 40 28
 Aroclor-1260 98.1 R3, E 0.25 mg/kg 5.000 27.5 NR 30-134 73 28

Surrogate(s)

Surrogate: Tetrachloro-m-xylene 0.5000 71 21-123
Surrogate: Decachlorobiphenyl 0.5000 100 17-128

**EMSL Analytical, Inc.**

200 Route 130, Cinnaminson, NJ, 08077
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 61 Willow Street, PO Box 921
 Adamstown, PA 19501
 (717) 484-5111
 iaq@e2s.us

Project Name: Toby Farms School
Customer PO: 1465.0001
EMSL Sales Rep: Gary Perlmutter
Received: 03/22/2023 09:30
Reported: 04/05/2023 14:40

Certified Analyses included in this Report

| Analyte | CAS # | Certifications |
|-------------------------------------|------------|------------------------------------|
| <i>SW 846-8082A in Solid</i> | | |
| Aroclor-1016 | 12674-11-2 | NJDEP,NYSDOH,PADEP,California ELAP |
| Aroclor-1221 | 11104-28-2 | NJDEP,NYSDOH,PADEP,California ELAP |
| Aroclor-1232 | 11141-16-5 | NJDEP,NYSDOH,PADEP,California ELAP |
| Aroclor-1242 | 53469-21-9 | NJDEP,NYSDOH,PADEP,California ELAP |
| Aroclor-1248 | 12672-29-6 | NJDEP,NYSDOH,PADEP,California ELAP |
| Aroclor-1254 [2C] | 11097-69-1 | NJDEP,NYSDOH,PADEP,California ELAP |
| Aroclor-1260 | 11096-82-5 | NJDEP,NYSDOH,PADEP,California ELAP |
| Aroclor-1260 [2C] | 11096-82-5 | NJDEP,NYSDOH,PADEP,California ELAP |
| Aroclor-1262 | 37324-23-5 | NJDEP,NYSDOH,PADEP |
| Aroclor-1268 | 11100-14-4 | NJDEP,NYSDOH,PADEP |

List of Certifications

| Code | Description | Number | Expires |
|-----------------|--|----------|------------|
| MADEP | Massachusetts Department of Environmental Protection | M-NJ337 | 06/30/2023 |
| California ELAP | California Water Boards | 1877 | 06/30/2024 |
| A2LA | A2LA Environmental Certificate | 2845.01 | 07/31/2024 |
| AIHA LAP | EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-ELLAP Accredited | 100194 | 01/01/2025 |
| NJDEP | New Jersey Department of Environmental Protection | 03036 | 06/30/2023 |
| PADEP | Pennsylvania Department of Environmental Protection | 68-00367 | 11/30/2023 |
| NYSDOH | New York State Department of Health | 10872 | 04/01/2023 |
| CTDPH | Connecticut Department of Public Health | PH-0270 | 06/23/2023 |

Please see the specific Field of Testing (FOT) on www.emsl.com <<http://www.emsl.com>> for a complete listing of parameters for which EMSL is certified.

**EMSL Analytical, Inc.**

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 EMSL-CIN-01

EMSL Order ID: 012352763**LIMS Reference ID:** AB52763**EMSL Customer ID:** ELES42

Attention: David Bertsch
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 61 Willow Street, PO Box 921
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 (717) 484-5111
 iaq@e2s.us

Project Name: Toby Farms School
Customer PO: 1465.0001
EMSL Sales Rep: Gary Perlmutter
Received: 03/22/2023 09:30
Reported: 04/05/2023 14:40

Notes and Definitions

| Item | Definition |
|-------------|---|
| D | Analyte was reported from a dilution run. |
| E | Result is beyond calibration range. This value is estimated. |
| MSR | The RPD for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample. |
| R3 | Recovery is outside of the control limits due to matrix interference. |
| [2C] | Reported from the second channel in dual column analysis. |
| DF | Dilution Factor |
| MDL | Method Detection Limit. |
| ND | Analyte was NOT DETECTED at or above the detection limit. |
| Q | Qualifier |
| RL | Reporting Limit |
| %REC | Percent Recovery |
| RPD | Relative Percent Difference |
| Source | Sample that was matrix spiked or duplicated |

Measurement of uncertainty and any applicable definitions of method modifications are available upon request. Per EPA NLLAP policy, sample results are not blank corrected.

EMSL ANALYTICAL, INC.
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LABORATORY PRODUCTS TRAINING

Environmental Chemistry Chain of Custody

EMSL Order Number (Lab Use Only):

AB52763

EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ 08077
PHONE: 1-800-220-3675
FAX: (856) 786-5974

| | | | | | | | |
|---|-------------------------------------|--------------------------|-------------------|--|--|-----------------|--------------------|
| Report To Contact Name: David Bertsch | | | | Bill To Company: Element Environmental Solutions | | | |
| Company Name: Element Environmental Solutions | | | | Attention To: David Bertsch | | | |
| Street: 61 Willow Street PO Box 921 | | | | Street: 61 Willow Street, PO Box 921 | | | |
| City: Adamstown | | State/Province: PA | | Zip/Postal Code: 19501 | | City: Adamstown | |
| Phone: 717-484-5111 | | Fax: | | Zip/Postal Code: 19501 | | City: Adamstown | |
| Project Name: Toby Farms School | | | | Email Results To: dave@e2s.us, IAA@e2s.us | | | |
| U.S. State where Samples Collected: PA | | | | Purchase Order: 1465.0001 | | | |
| Sample for Compliance? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, NPDES? <input type="checkbox"/> Other (Specify): | | | | Number of Samples in Shipment: 2 | | | |
| Samples Collected by: EMSL <input type="checkbox"/> Client <input checked="" type="checkbox"/> check one | | | | Sampled By (Signature): <i>Michael</i> | | | |
| Standard Turnaround Time: <input checked="" type="checkbox"/> 2 Weeks | | | | The following TATs are subject to lab approval: <input type="checkbox"/> 1 Week <input type="checkbox"/> 4 Days <input type="checkbox"/> 3 Days <input type="checkbox"/> 2 Days <input type="checkbox"/> 1 Day | | | |
| Failure to complete will hinder processing of samples | | | | List Test(s) Needed | | | |
| Client Sample ID | Comp | Grab | Collect Date/Time | Matrix | Preservative | Field pH | Field pH Test Time |
| TF-3/20-01 PCB (1963) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3/20/23 | W=Water S=Soil A=Air SL=Sludge O=Other | 1=HCL 2=HNO3 3=H2SO4 4=ICE 5=Other | | |
| TF-3/20-02 PCB (1966) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3/20/23 | | | | |
| | <input type="checkbox"/> | <input type="checkbox"/> | | | | | |
| | <input type="checkbox"/> | <input type="checkbox"/> | | | | | |
| Released By (Signature) <i>Michael</i> | | | | Received By <i>Michael</i> | | | |
| Date & Time 3/21/2023 | | | | Date & Time | | | |
| Please indicate reporting requirements: <input checked="" type="checkbox"/> Results Only <input type="checkbox"/> Results and QC <input type="checkbox"/> Reduced Deliverables <input type="checkbox"/> Disk Deliverable <input type="checkbox"/> Other | | | | | | | |
| Instructions or Comments: <i>3/22/23 9:30 am.</i> | | | | | | | |
| Note: Field pH and Field Temperature are tested on the same day as the date of sample collection. | | | | | | | |



EMSL ANALYTICAL, INC.
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EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Environmental Chemistry Chain of Custody

EMSL Order Number (Lab Use Only):

AB52763

EMSL Analytical, Inc.
200 Route 130 North

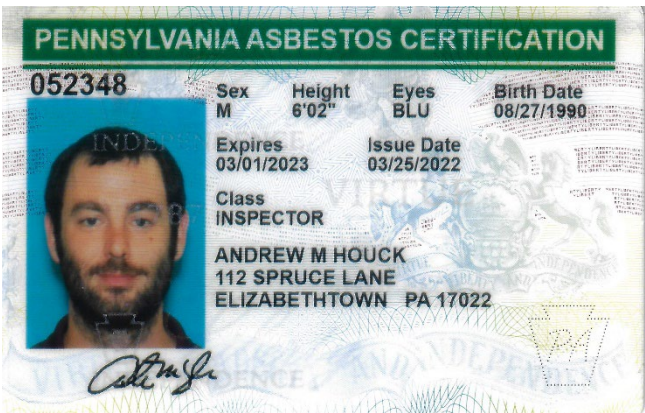
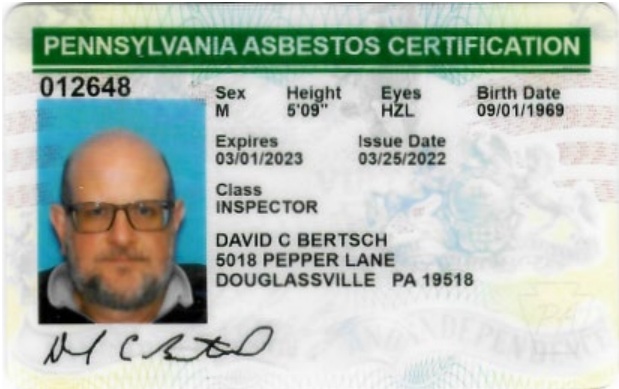
Cinnaminson, NJ 08077
PHONE: 1-800-220-3675
FAX: (856) 786-5974

| | | | | | | | |
|---|-------------------------------------|--------------------------|--------------------------|--|--|--|-----------------------|
| Report To Contact Name: David Bertsch | | | | Bill To Company: Element Environmental Solutions | | | |
| Company Name: Element Environmental Solutions | | | | Attention To: David Bertsch | | | |
| Street: 61 Willow Street PO Box 921 | | | | Street: 61 Willow Street, PO Box 921 | | | |
| City: Adamstown | | State/Province: PA | | Zip/Postal Code: 19501 | | City: Adamstown | |
| Phone: 717-484-5111 | | Fax: | | Email Results To: dave@e2s.us, IAA@e2s.us | | Purchase Order: 1465.0001 | |
| Project Name: Toby Farms School | | | | Number of Samples in Shipment: 2 | | | |
| U.S. State where Samples Collected: PA | | | | Date of Shipment: 3/21/23 | | | |
| Sample for Compliance? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, NPDES? <input type="checkbox"/> Other (Specify): | | | | Samples Collected by: EMSL <input type="checkbox"/> Client <input checked="" type="checkbox"/> check one | | | |
| Standard Turnaround Time: 2 Weeks | | | | The following TATs are subject to lab approval: <input type="checkbox"/> 1 Week <input type="checkbox"/> 4 Days <input type="checkbox"/> 3 Days <input type="checkbox"/> 2 Days <input type="checkbox"/> 1 Day | | | |
| Failure to complete will hinder processing of samples | | | | Sampled By (Signature): <i>Michael</i> | | | |
| Client Sample ID | | Comp | Grab | Collect Date/Time | Matrix | Preservative | Field pH |
| TF-3/20-01 PCB (1963) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 3/20/23 | W=Water S=Soil A=Air SL=Sludge O=Other | 1=HCL 2=HNO3 3=H2SO4 4=ICE 5=Other | Field pH Test Time |
| TF-3/20-02 PCB (1966) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 3/20/23 | 0 | 5 | Field Temp. Deg C |
| | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | Field Temp. Test Time |
| | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | |
| | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | |
| Released By (Signature) <i>Michael</i> | | Date & Time 3/21/2023 | | Received By | | Date & Time | |
| Please indicate reporting requirements: <input checked="" type="checkbox"/> Results Only <input type="checkbox"/> Results and QC <input type="checkbox"/> Reduced Deliverables <input type="checkbox"/> Disk Deliverable <input type="checkbox"/> Other | | | | | | | |
| Instructions or Comments: <i>322/23 9:30am</i> | | | | | | | |
| Note: Field pH and Field Temperature are tested on the same day as the date of sample collection. | | | | | | | |

Appendix B

Accreditations and XRF Calibration

Asbestos Building Inspector
Certifications



Certificate of Training

CRITERION LABORATORIES, INC.

HEREBY CERTIFIES THAT

David C. Bertsch

HAS SUCCESSFULLY COMPLETED A 4 HOUR TELECONFERENCE COURSE ENTITLED

Asbestos Building Inspector Refresher

INCLUDING CLASSROOM INSTRUCTION

on this 7th day of March 2023

Approved for AHERA Accreditation Under TSCA Title II

400 Street Road
Bensalem, PA 19020
(215) 244-1300 - Phone
(215) 244-4349 - Fax
www.criterionlabs.com

Rev. 20230216
Course is conducted in English

DIRECTOR: *Adam Weltz*

Adam Weltz, President

Certificate of Training

CRITERION LABORATORIES, INC.

HEREBY CERTIFIES THAT

Andrew M. Houck

HAS SUCCESSFULLY COMPLETED A 4 HOUR TELECONFERENCE COURSE ENTITLED

Asbestos Building Inspector Refresher

INCLUDING CLASSROOM INSTRUCTION

on this 7th day of March 2023

Approved for AHERA Accreditation Under TSCA Title II

**400 Street Road
Bensalem, PA 19020
(215) 244-1300 - Phone
(215) 244-4349 - Fax
www.criterionlabs.com**

*Rev. 20230216
Course is conducted in English*

DIRECTOR: *Adam Wetz*

Adam Wetz, President





CERTIFICATE OF TRAINING

This certifies that

David Bertsch

has successfully completed a(n) 8-hour training course entitled:

VIRTUAL LEAD RISK ASSESSOR REFRESHER (40 CFR 745.226)

on March 22, 2023

Certificate # 26-PAI-00137
Lead Expiration Date: March 22, 2026

Mechanicsburg Training Center
4 Kacey Court
Mechanicsburg, PA 17055
717-766-4500



INSTRUMENT CALIBRATION REPORT

Pine Environmental Services LLC

780 5th Ave
Suite 110
King of Prussia, PA 19406
484-690-1019

Pine Environmental Services, Inc.

Instrument ID 40857
Description x-550 XRF
Calibrated 3/16/2023 1:31:49PM

| | | | |
|----------------------------------|--------------|------------------------|------|
| Manufacturer | SciAps | State Certified | |
| Model Number | X-550 | Status | Pass |
| Serial Number/ Lot Number | 00493 | Temp °C | 21 |
| Location | Philadelphia | Humidity % | 17 |
| Department | | | |

Calibration Specifications

| Group # | | Range Acc % | | Reading Acc % | | Plus/Minus | |
|----------------------------|----------------|----------------|-----------------|---------------|---------------|-------------|------------------|
| Group Name | | | | | | | |
| Stated Accy | | | | | | | |
| <u>Nom In Val / In Val</u> | <u>In Type</u> | <u>Out Val</u> | <u>Out Type</u> | <u>Fnd As</u> | <u>Lft As</u> | <u>Dev%</u> | <u>Pass/Fail</u> |

| <u>Test Instruments Used During the Calibration</u> | | | | | <u>(As Of Cal Entry Date)</u> | |
|---|--------------------|---------------------|---------------------|-----------------------------------|-----------------------------------|--|
| <u>Test Standard ID</u> | <u>Description</u> | <u>Manufacturer</u> | <u>Model Number</u> | <u>Serial Number / Lot Number</u> | <u>Last Cal Date/ Opened Date</u> | <u>Next Cal Date / Expiration Date</u> |

Notes about this calibration

Calibration Result Calibration Successful
Who Calibrated Joseph Petraglia

All instruments are calibrated by Pine Environmental Services LLC according to the manufacturer's specifications, but it is the customer's responsibility to calibrate and maintain this unit in accordance with the manufacturer's specifications and/or the customer's own specific needs.

Notify Pine Environmental Services LLC of any defect within 24 hours of receipt of equipment
Please call 800-301-9663 for Technical Assistance