QuES&T

Quality Environmental Solutions & Technologies, Inc.

Building Air Quality Report
April 28, 2023

Prepared for

Daniel Erceg, Ed. D.
Superintendent of Schools, Interim
Saugerties Central School District

Regarding

Ricciardi Elementary School
70 Plenty Street, Glasco, NY 12477

Conducted by

Quality Environmental Solutions & Technologies, Inc.
1376 Route 9
Wappingers Falls, NY 12590

QuES&T Project # 23-5295

Site Visit Conducted: April 14, 15, 16, 17, 21 2023

Conducted by: Larry Goldstein & Michael O'Rourke

Executive Summary

QuES&T performed the air monitoring on a floor tile/mastic abatement at the Saugerties CSD's Ricciardi Elementary School that was performed over the district's spring break (April 3-7, 2023). When the teaching staff returned the following week (April 10th), there were concerns registered about odors in the areas of the building where the abatement took place. These areas include much of the corridor tile to the right (southeast) of the secure main entrance and multiple rooms on the right-hand side of this corridor. There was also an approximately 40' long section of corridor between the cafeteria and boiler room included in this abatement.

We obtained a copy of the safety data sheet for the mastic remover prior to our 1st site visit on April 14, 2023 (see **Appendix B** for copy of SDS). This is a commonly used mastic remover in the asbestos abatement industry and generally considered "safe". This product has been used in the Saugerties CSD multiple times during floor tile abatement. During our visit on the 14th we noted an odor in the corridor to the right of the secure main entrance. The strongest odor was in the faculty room at the end of the corridor.

On the 15th we collected PID readings from various surfaces and materials to determine what remedial actions were needed to assist in the reduction of the odors on the first floor of the building. That afternoon and evening, wood, floor patch, grout, and other materials that were identified as holding mastic remover were removed and remediated by ACA and district employees. On the 16th we met with district and contractor representatives at the school. The decision was made to leave dehumidifiers and negative air machines running throughout the night. On the 16th decision was made to leave dehumidifiers and negative air machines running throughout the night.

We returned at 7:15 am on the 17th and shut down all the negative air machines and asked the custodians to keep all doors and windows closed. Cannisters and regulators to collect TO-15 samples were set up in four locations to sample throughout the workday (see Results Summary). We also collected PID

readings on the second floor of the building at the request of the Superintendent of Schools. Following the sampling period, the samples were shut down and returned to our offices in Wappingers Falls, NY. The next morning, they were picked up from the office by a QuES&T technician and driven to Galson Labs in Syracuse. The afternoon of April 19th we received results from the lab for the four sampling locations and reported them to the district. These lab results showed that over 95% of the 72 volatile organic compounds (VOCs) analyzed for were below the analytical levels of detection. The levels of those few compounds detected were all in parts per billion (ppb) while the permissible exposure limits for each, where applicable, are in parts per million (ppm).

The district requested air sampling for asbestos fibers (which was done post abatement). QuES&T dispatched a certified technician on April 21st to collect air samples in and around the area where the environmental remediation was performed. All the air samples for asbestos showed levels below the detection limit (BDL). These samples were analyzed that day and we communicated the results to the district.

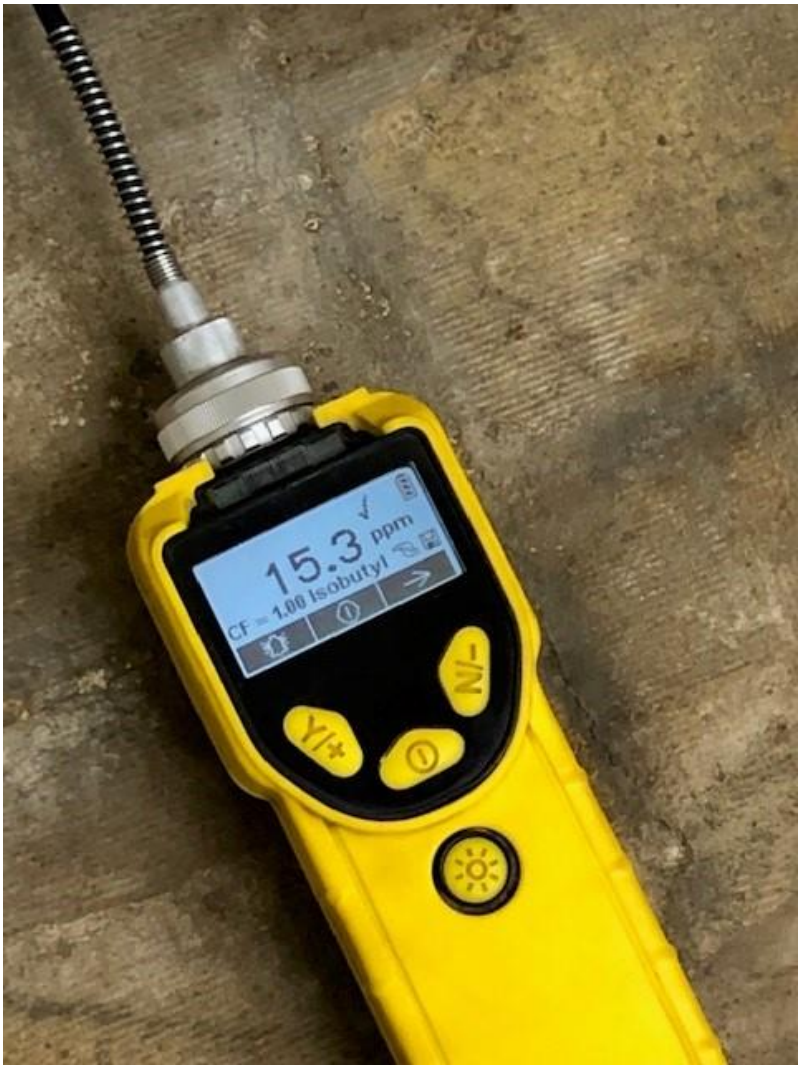
Project Scope

Scan for sources of organic vapors using a hand-held photoionization detector (PID). Make recommendations to the school district about removing materials that appeared to be holding organic vapor odors. Collect samples for individual volatile organics using summa cannisters. Collect environmental air samples in and around the work area for asbestos. Meet with the contractor performing remediation, ACA Environmental Services, regarding materials to be removed and the completeness of work. Prepare interim reports and communicate daily with the administration of the Saugerties Central School District.

Materials & Methods

In-field readings for volatile organic compounds were taken using a RAE Systems MiniRAE 3000 PID. This unit was rented from Eco Rentals in

Elmsford, NY and calibrated prior to shipment to QuES&T (see image below). Air samples for TO-15 analysis were taken using one-liter summa cannisters and eight-hour regulators both provided by Galson Labs in Syracuse, NY. The samples were collected over eight-hour time periods and returned the following day to Galson by a QuES&T's technician for analysis. Air samples for asbestos were taken using diaphragm air sampling pumps and PCM cassettes. In addition to the 10 samples collected, we also submitted two blanks for QA'QC to Eastern Analytical Services.



Actual reading at Ricciardi Elementary School

Results Summary

All sample results and other data were reported to the client contact in person, via phone, or e-mail as they became available to us.

Air Sample Results for Asbestos
April 21, 2023

Sample ID	Location	Result
5295-01	Environmental Inside Building	Below Detection Limit
5295-02	Environmental Inside Building	Below Detection Limit
5295-03	Environmental Inside Building	Below Detection Limit
5295-04	Environmental Inside Building	Below Detection Limit
5295-06	Environmental Inside Building	Below Detection Limit
5295-07	Environmental Inside Building	Below Detection Limit
5295-08	Environmental Inside Building	Below Detection Limit
5295-09	Environmental Inside Building	Below Detection Limit
5295-10	Environmental Outside Building	Below Detection Limit

TO-15 Air Sampling Results
April 17, 2023

Sample ID	Location	Compounds Detected in Parts per Billion
5295-01 109	Room 109	Acetone [7.8 ppb] Isopropyl Alcohol [14 ppb] Pentane [5.6 ppb] Toluene [4.8 ppb]
5295-02 Outdoor	Outside Main Entrance	Pentane [2.8 ppb] Toluene [2.2 ppb]
5295-03 127	Corridor Outside Room 127	Acetone [12 ppb] Butane [7.5 ppb] Ethyl Acetate [0.80 ppb] Toluene [3.4 ppb]
5295-04 Faculty	Faculty Room	Acetone [13 ppb] Pentane [8.6 ppb] Toluene [3.6 ppb]

NOTE: Photoionization Detector (PID) readings were outlined in letter reports to the superintendent of schools during the investigation process.

Comments & Recommendations

QuES&T performed the air monitoring on a floor tile/mastic abatement at

the Saugerties CSD's Ricciardi Elementary School that was performed over the district's spring break (April 3-7, 2023). When the teaching staff returned the following week (April 10th), there were concerns registered about odors in the areas of the building where the abatement took place. These odors were in the vicinity of where the floor tile and mastic abatement took place. These areas include much of the corridor tile to the right (southeast) of the secure main entrance and multiple rooms on the right-hand side of this corridor. There was also an approximately 40' long section of corridor between the cafeteria and boiler room included in this abatement.

Prior to making our first site visit on April 14, 2023, we obtained a Safety Data Sheet for the mastic remover from the contractor Jupiter Environmental of Pine Brook, NJ. The product used to loosen and remove the mastic was Chemsafe 100C which is made up largely of a light fraction of petroleum distillates (see **Appendix B** for copy of SDS). This is a commonly used mastic remover in the asbestos abatement industry and generally considered "safe". This product has been used in the Saugerties CSD multiple times during floor tile abatement. During our visit on the 14th we noted an odor in the corridor to the right of the secure main entrance. The strongest odor was in the faculty room at the end of the corridor.

On the 15th we collected PID readings from various surfaces and materials to determine what remedial actions were needed to assist in the reduction of the odors on the first floor of the building. These readings were taken early in the morning (between 6:30 and 9:00 am). Dehumidifiers and negative air machines were installed in a number of locations, per QuES&T's direction, by two contractors working with the district. That afternoon and evening, wood, floor patch, grout, and other materials that were identified as holding mastic remover were removed and remediated by ACA and district employees. On the 16th we met with district and contractor representatives at the school. The decision was made to leave dehumidifiers and negative air machines running throughout the night.

We returned at 7:15 am on the 17, at which time the school district had decided to go to remote education for several days at Ricciardi. We shut down all the negative air machines and asked the custodians to keep all doors and windows closed (to the extent feasible). Cannisters and regulators to collect TO-15 samples were set up in four locations to sample throughout the workday. The samples were set up in Room 109, the faculty room, the corridor to the right of the secure main entrance and outside the front of the building. We also collected PID readings on the second floor of the building at the request of the Superintendent of Schools. Please note that there was no abatement performed on the second floor of the building during spring break. Following the sampling period, the samples were shut down and returned to our offices in Wappingers Falls, NY. The next morning, they were picked up from the office by a QuES&T technician and driven to Galson Labs in Syracuse. We requested next day turn around on the sample results.

The afternoon of April 19th we received results from the lab for the four sampling locations. These lab results showed that over 95% of the 72 volatile organic compounds (VOCs) analyzed for were below the analytical levels of detection. The levels detected of those few compounds were all in parts per billion (ppb) while the permissible exposure limits for each, where applicable, are in parts per million (ppm). The results were reported by phone and/or email to the district that day. Ricciardi Elementary School remained on remote learning until April 21st during which time additional remediation, including the removal of an over slab in the corridor that leads to the gymnasium was removed (see Photo 11 in **Appendix A**).

There was one final concern registered by teachers and/or parents regarding asbestos. The floor tile asbestos abatement was closed out after final air clearance samples were taken per NYS requirements. However, there was a concern that grinding and chipping performed during the environmental remediation had stirred up additional asbestos fibers. QuES&T dispatched a certified technician on April 21st to collect air samples in and around the area

where the environmental remediation was performed. All the air samples for asbestos showed levels below the detection limit (BDL). These samples were analyzed that day and we communicated the results to the district as soon as the results became available to us.

APPENDIX A

Photographs

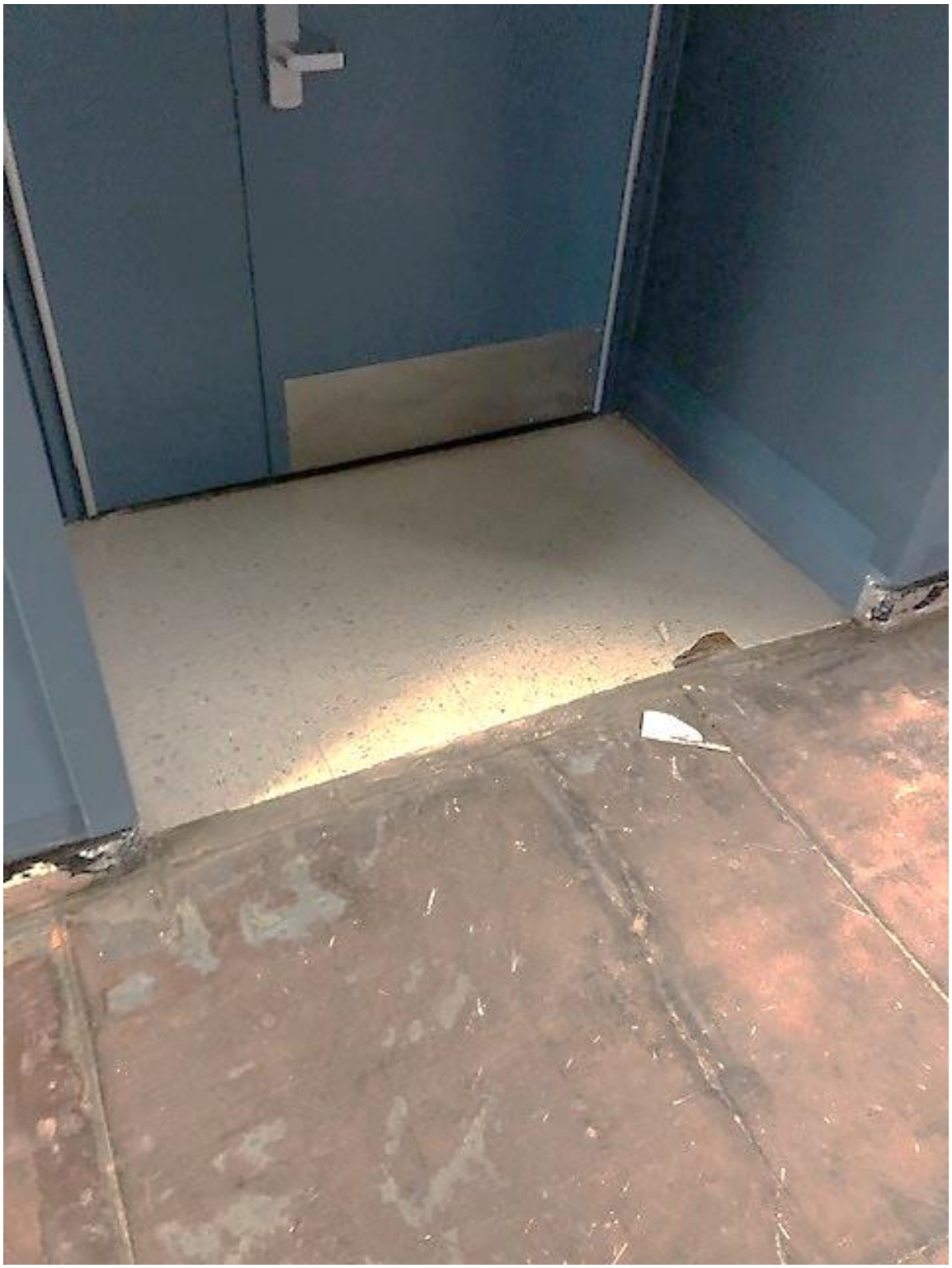


PHOTO 1: POST ASBESTOS ABATEMENT VCT OUTSIDE CAFETERIA EXIT

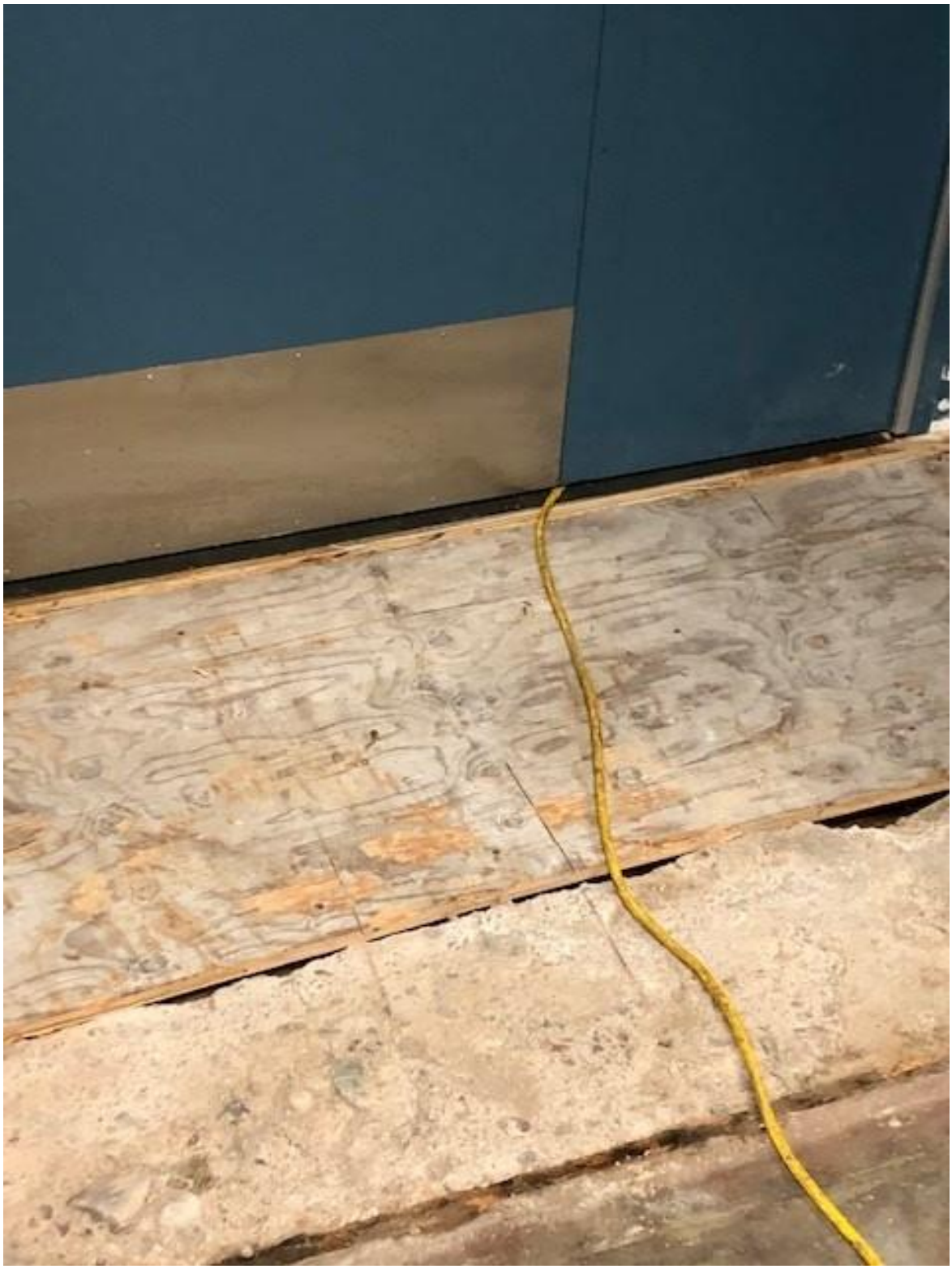


PHOTO 2: WOOD PLANKING AFTER VCT REMOVAL

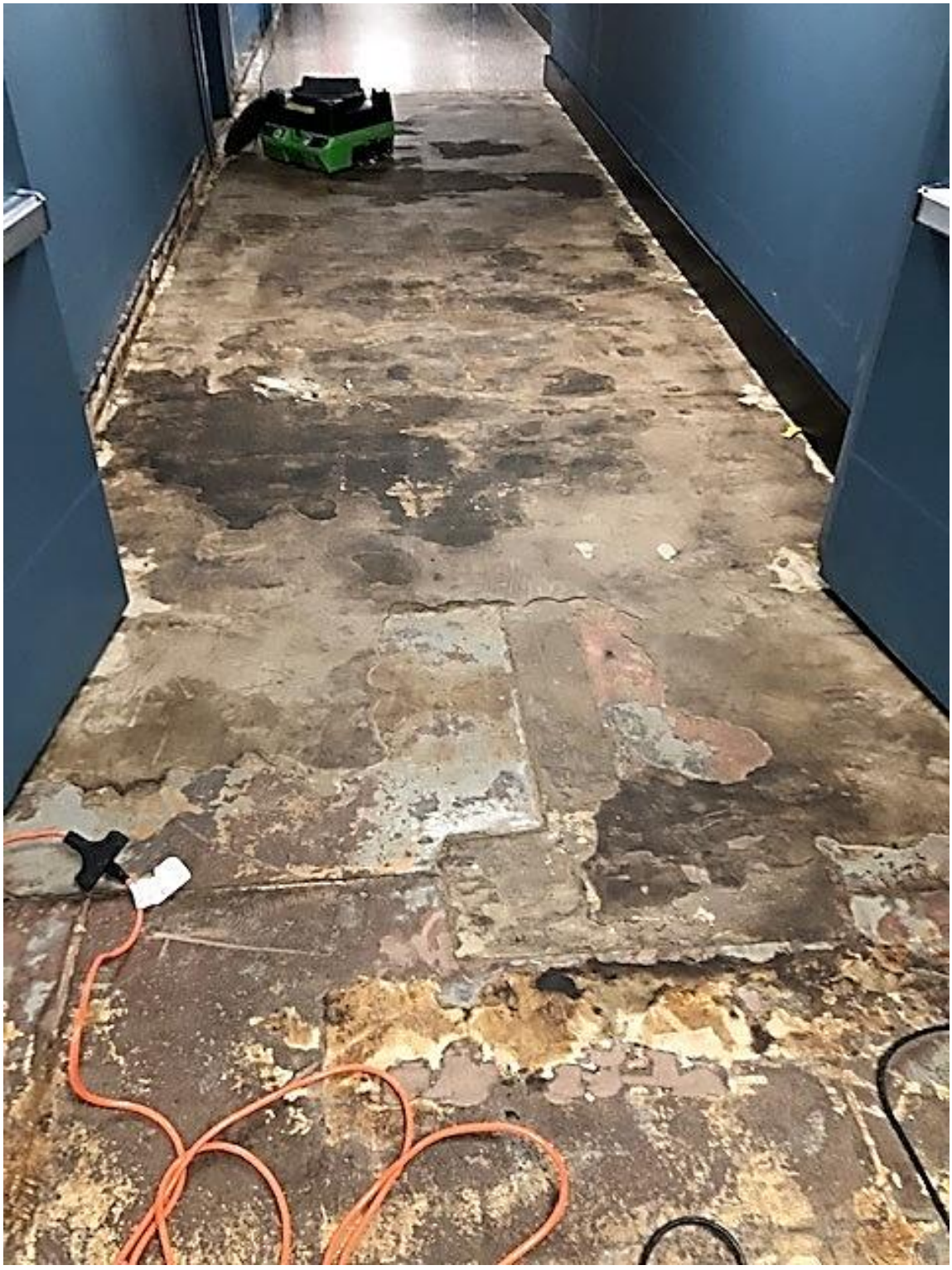


PHOTO 3: POST ASBESTOS ABATEMENT FLOOR PATCH IN CORRIDOR BETWEEN CAFETERIA & BOILER ROOM

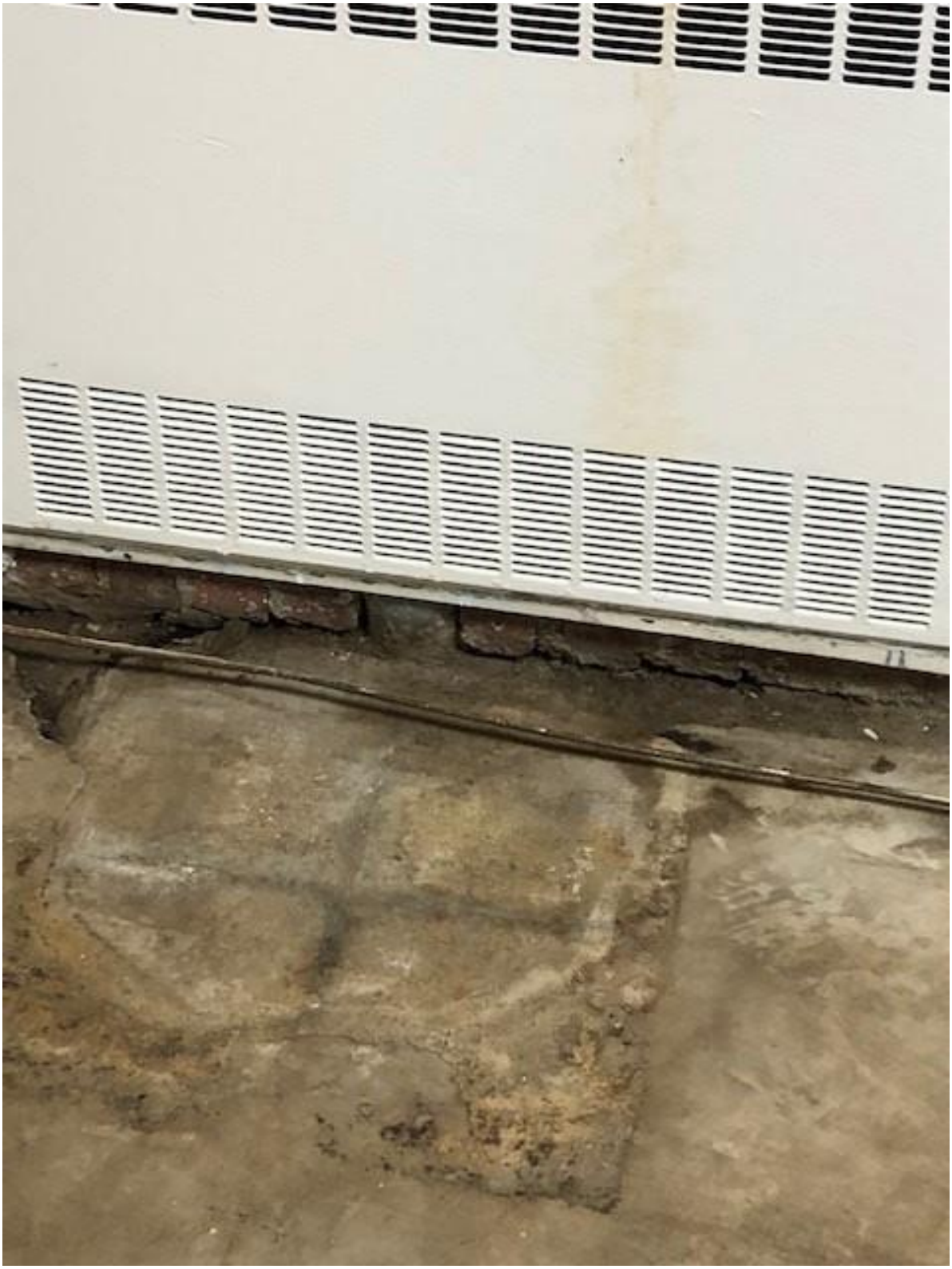


PHOTO 4: POST ASBESTOS ABATEMENT FLOOR & BRICK IN FACULTY ROOM

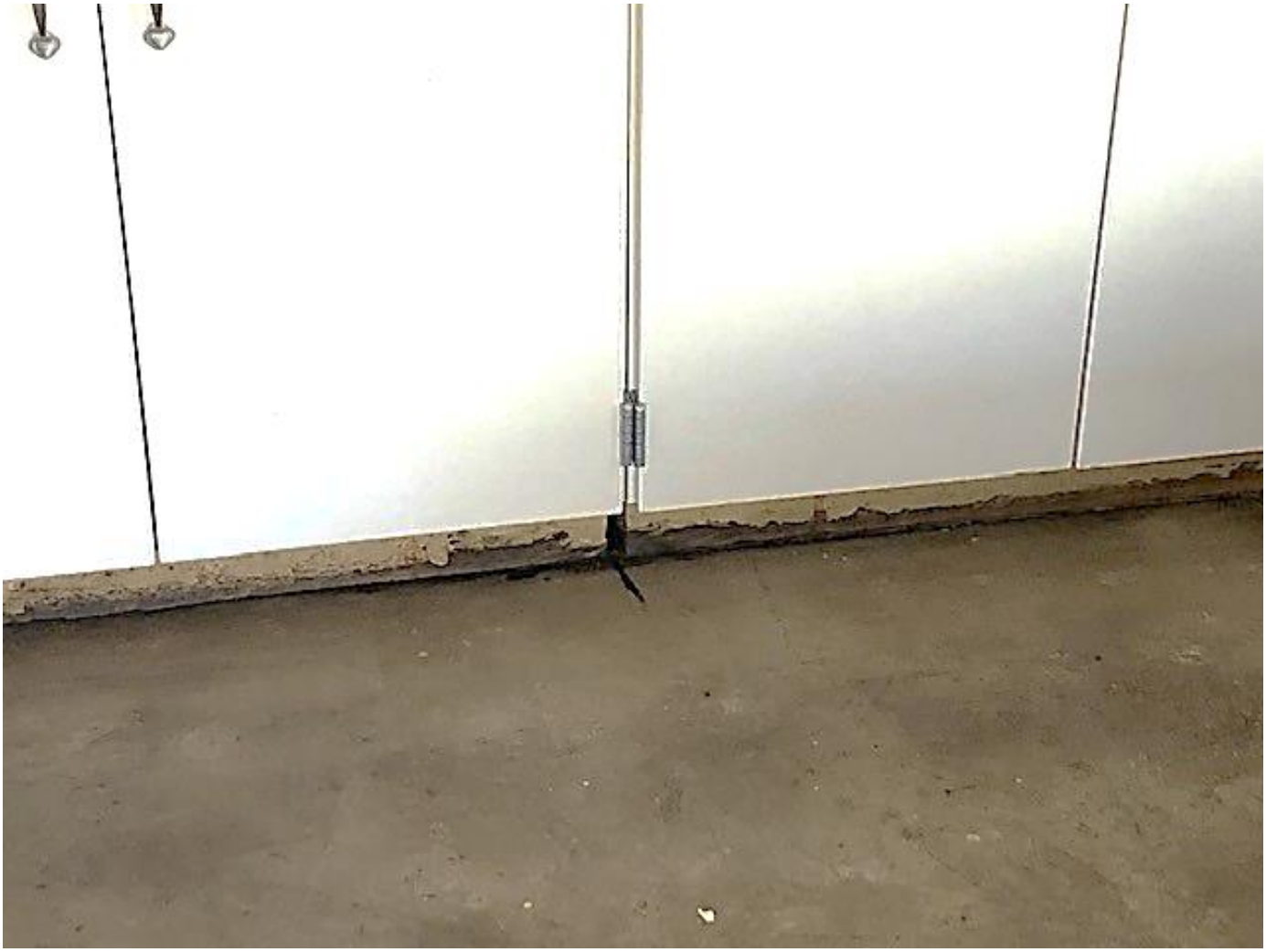


PHOTO 5: POST ABATEMENT SINK BASE CABINET IN FACULTY ROOM

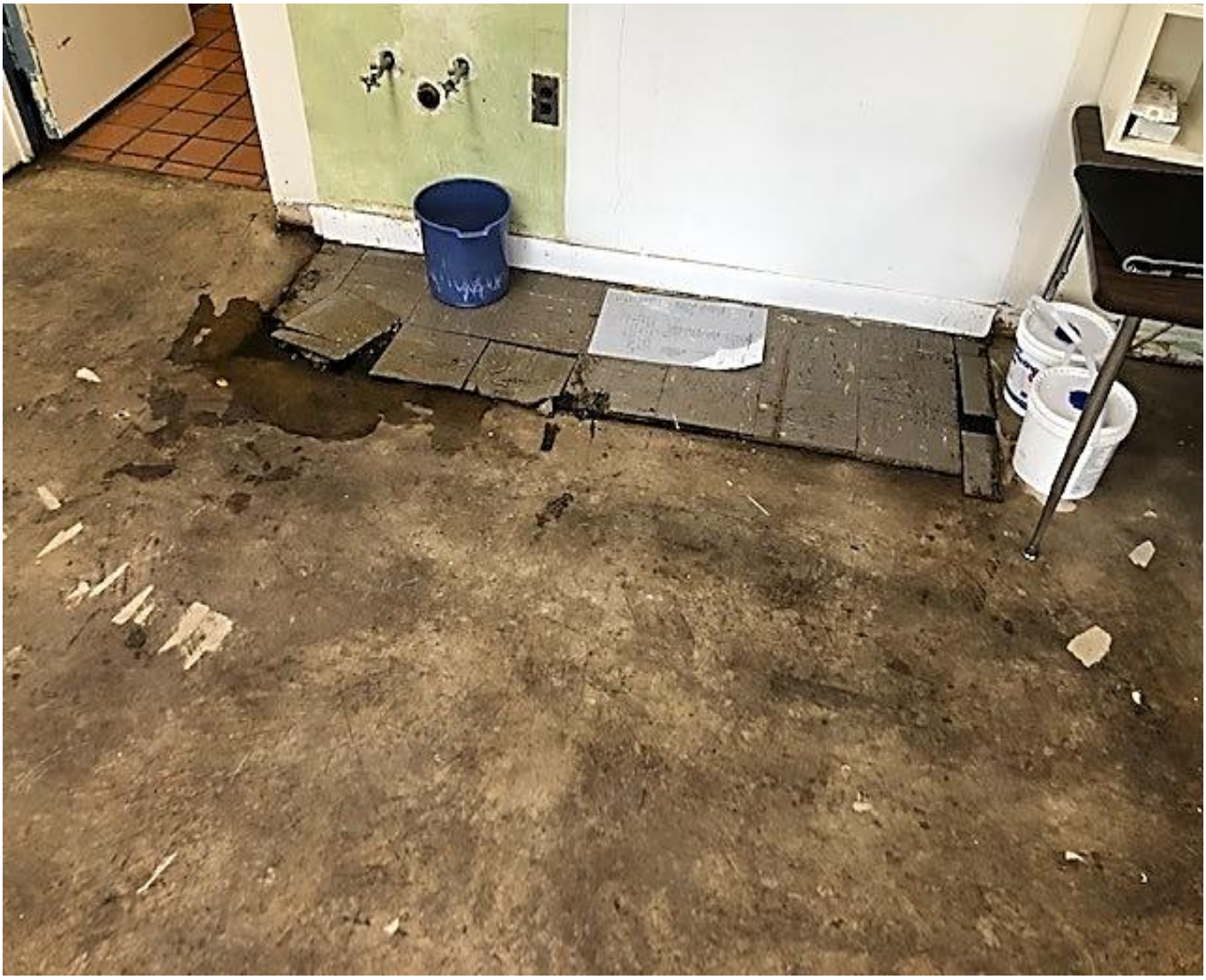


PHOTO 6: FOLLOWING REMOVAL OF SINK BASE CABINET IN FACULTY ROOM

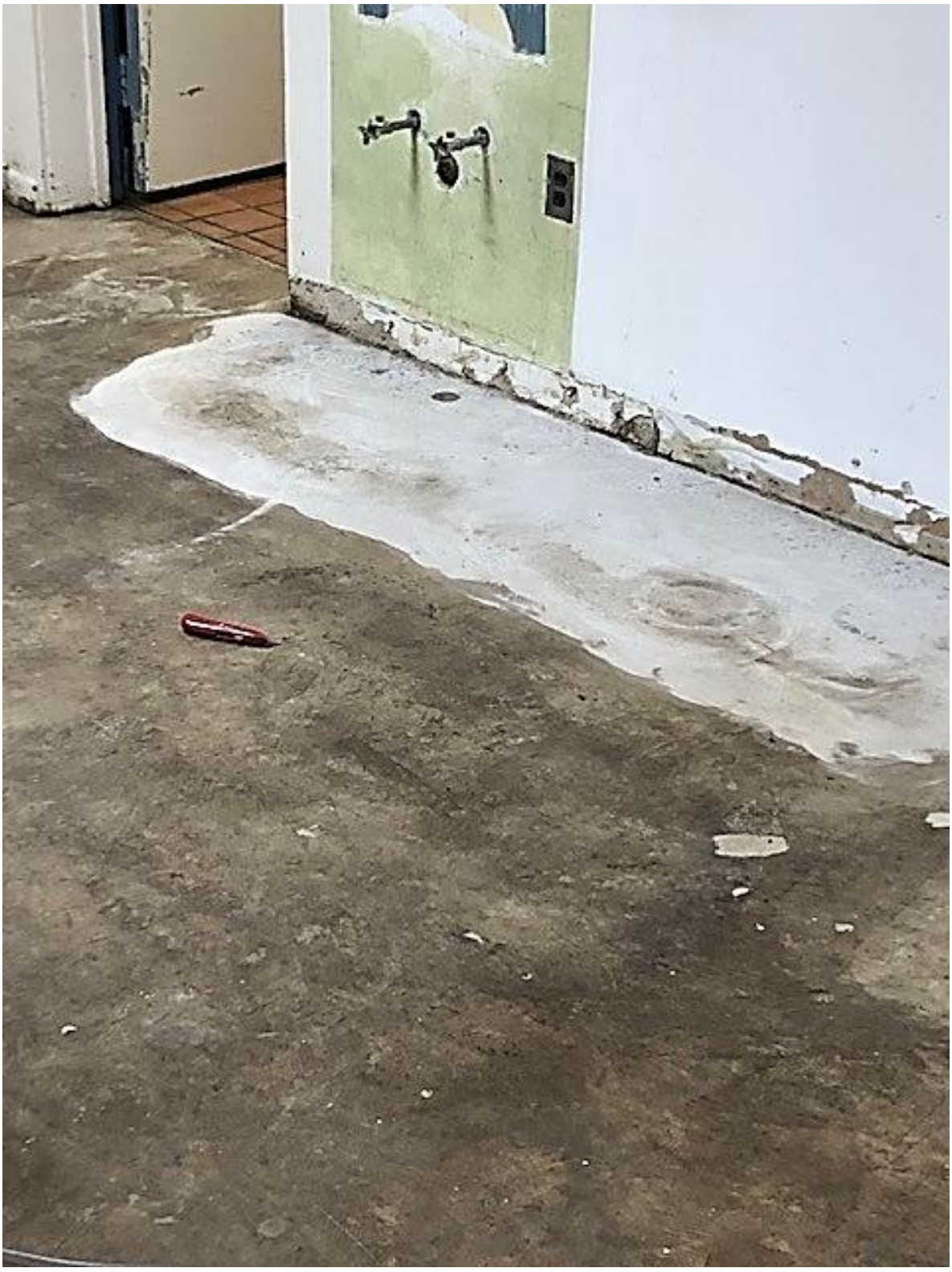


PHOTO 7: AFTER MINOR ABATEMENT IN FACULTY ROOM

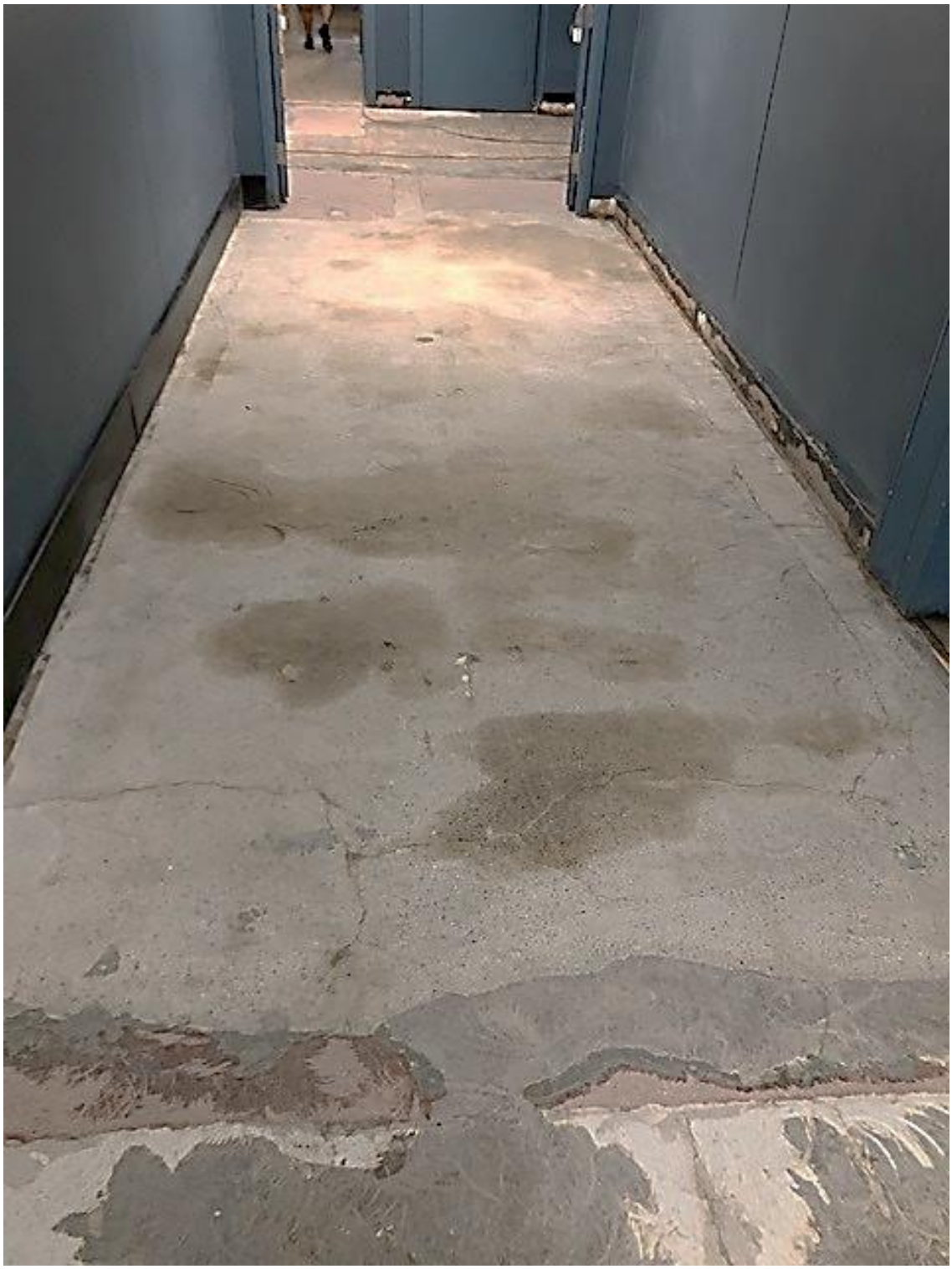


PHOTO 8: CORRIDOR BETWEEN CAFETERIA & BOILER ROOM AFTER REMEDATION BY ENVIRONMENTAL CONTRACTOR

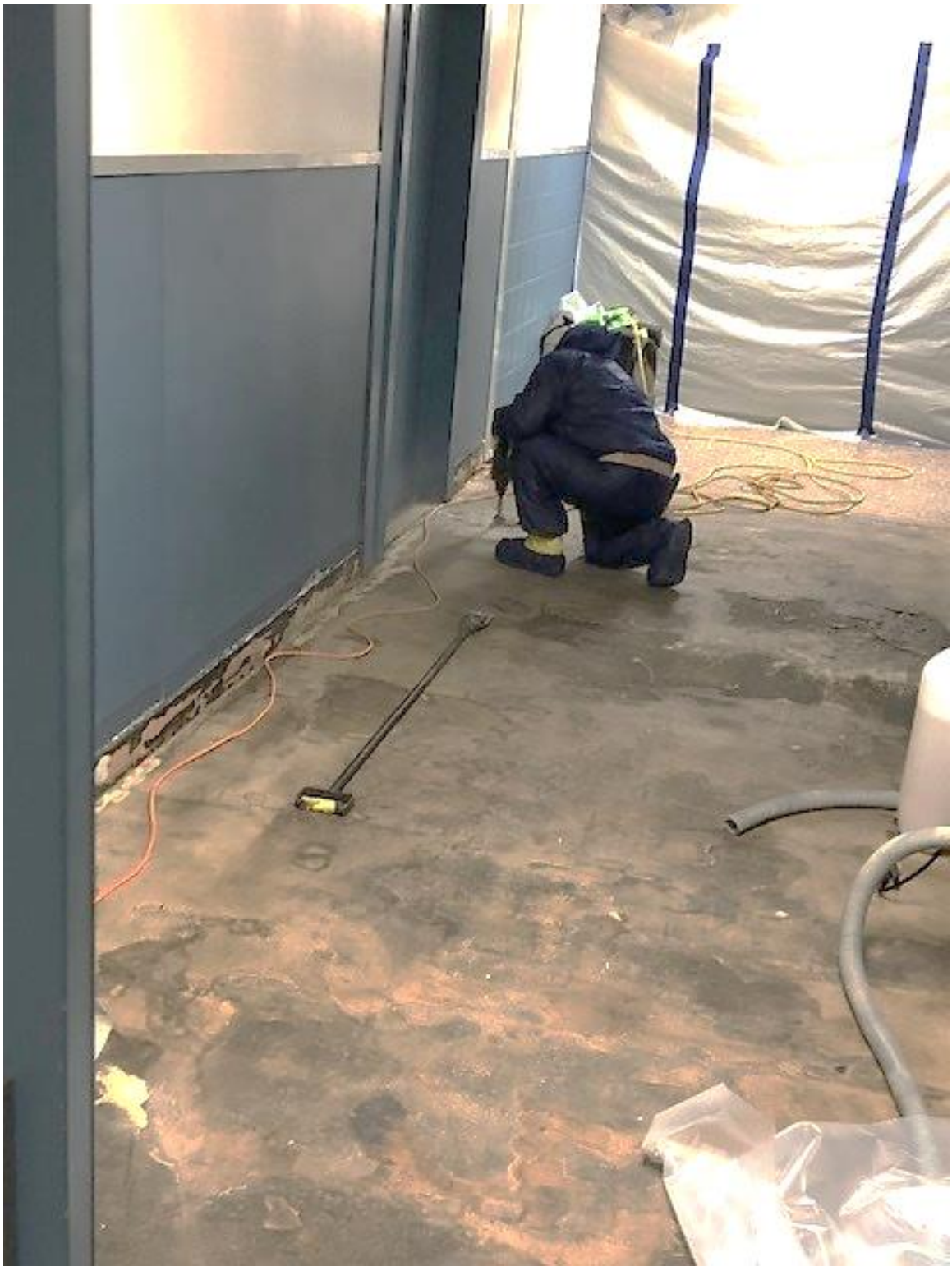


PHOTO 9: WORK AREA

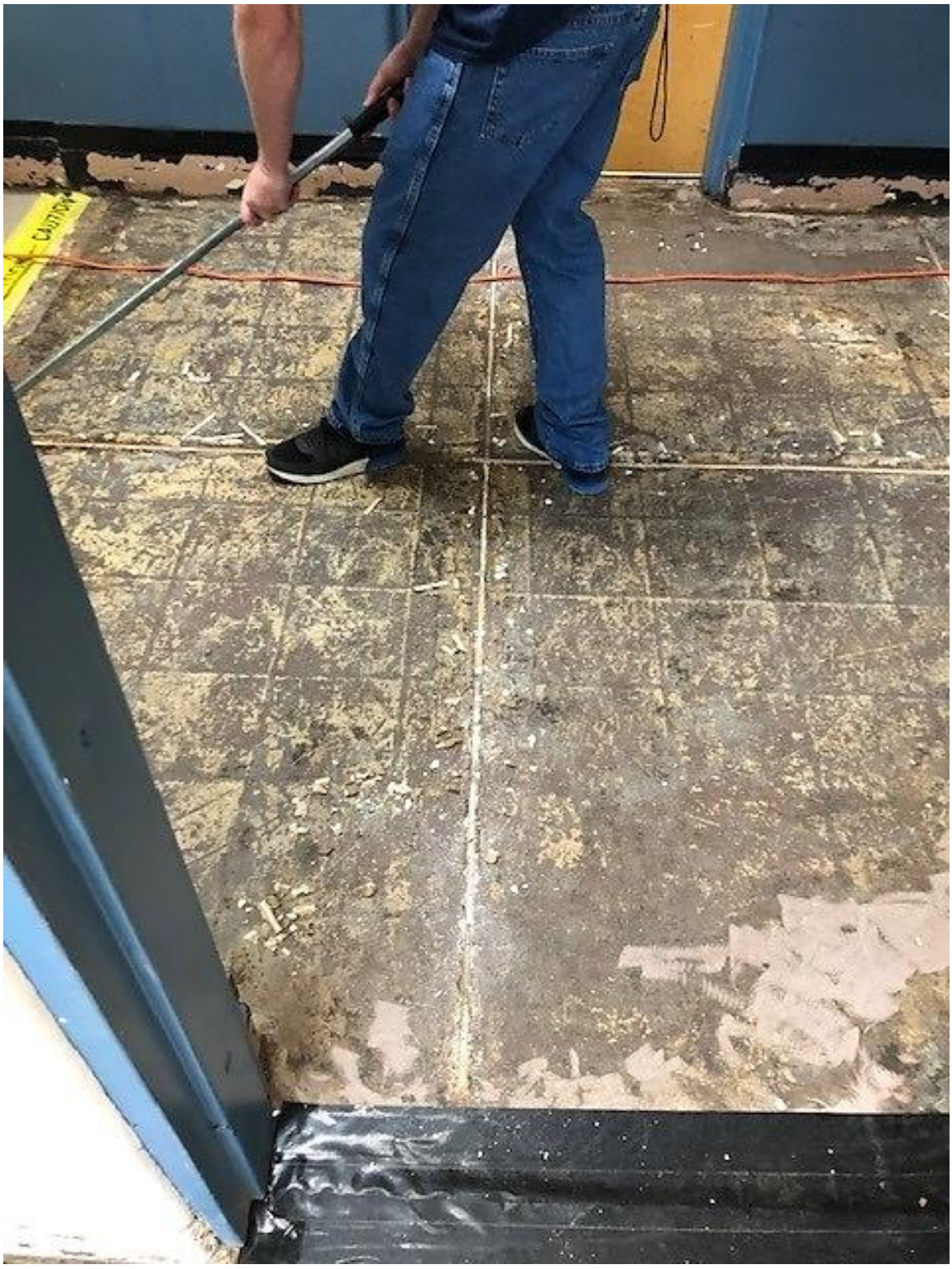


PHOTO 10: DISTRICT STAFF REMOVING FLOOR LEVELER

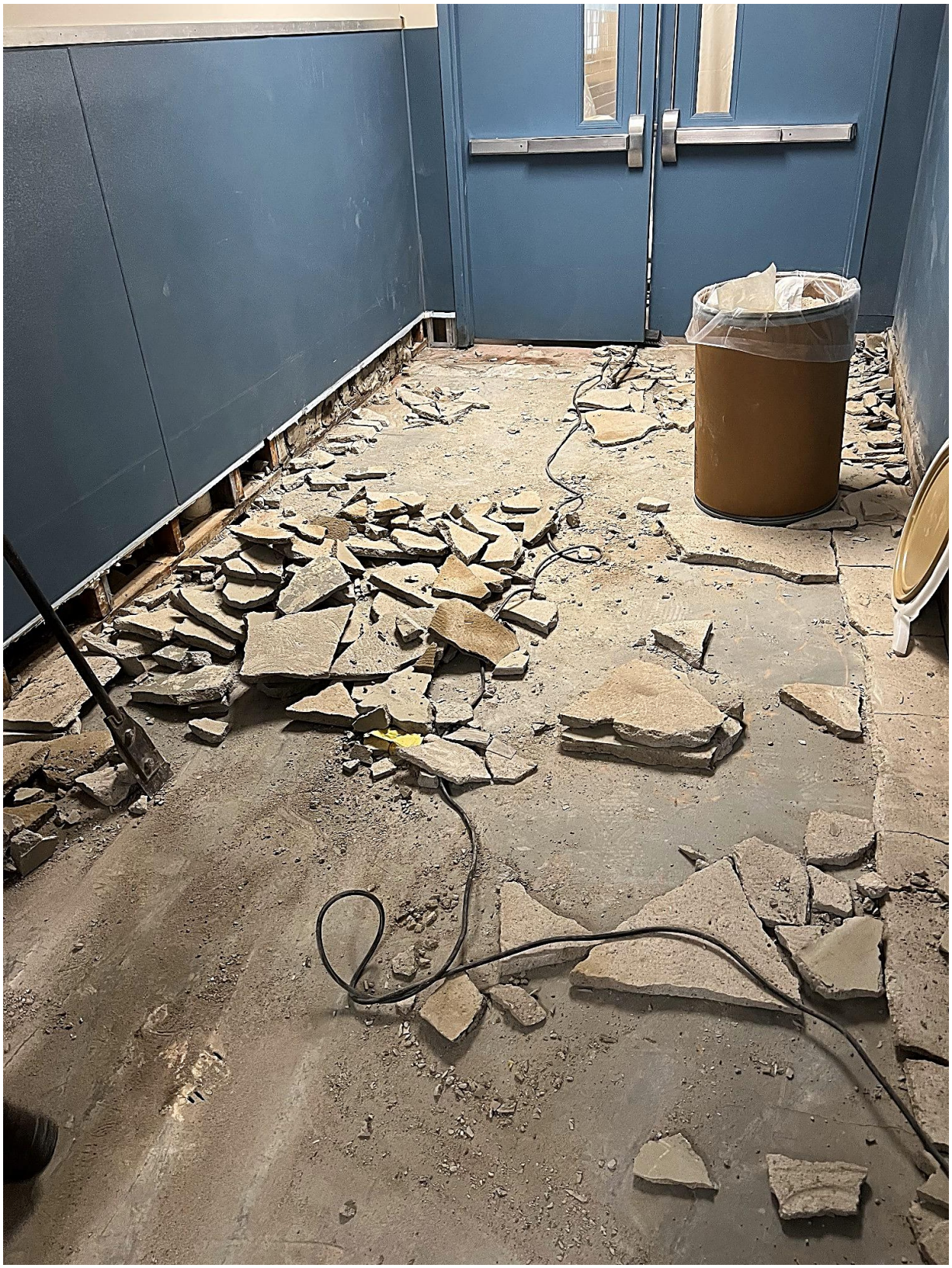


PHOTO 11: REMOVAL OF OVER SLAB BY ENVIRONMENTAL CONTRACTOR – CORRIDOR BETWEEN CAFETERIA & BOILER ROOM

APPENDIX B

Mastic Remover Safety Data Sheet

ISSUE DATE: 1/15/2007 REVISION DATE: 4/15/2015

1. PRODUCT AND COMPANY IDENTIFICATION

GHS PRODUCT IDENTIFIER:
TRADE NAME; CHEMSAFE 100C (CARB COMPLIANT)

OTHER MEANS OF IDENTIFICATION:

RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE:

RECOMMENDED USE: Mastic Removal

SUPPLIER'S DETAILS:

1480 GRANDVIEW AVE.
THOROFARE, NJ 08086
(800)767-6933

EMERGENCY PHONE NUMBER:

COMPANY PHONE NUMBER: (800)767-6933
(24HR) EMERGENCY NUMBER: CHEM-TREC (800)424-9300

2. HAZARD IDENTIFICATION

GHS CLASSIFICATION:

GHS CLASSIFICATION SCALE: (1=SEVERE HAZARD, 4=SLIGHT HAZARD)

PHYSICAL HAZARDS:

FLAMMABLE LIQUIDS	CATEGORY 4

HEALTH HAZARDS:

ASPIRATION HAZARD	CATEGORY 1
ACUTE TOXICITY- INHALATION (VAPORS)	CATEGORY 3
ACUTE TOXICITY-ORAL	CATEGORY 4
SERIOUS EYE DAMAGE IRRITATION	CATEGORY 2A
SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY-SINGLE EXPOSURE, CENTRAL NERVOUS SYSTEM (DIZZINESS)	CATEGORY 3

LABEL ELEMENTS:

SIGNAL WORD: DANGER

HAZARD STATEMENTS:
Combustible liquid
Toxic if inhaled
Harmful if swallowed
Causes serious eye irritation
May be fatal if swallowed and enters airways
May cause drowsiness or dizziness

HAZARD SYMBOLS:

PRECAUTIONARY STATEMENTS:
Keep out of reach of children
Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Keep container tightly closed.
Keep cool
Avoid breathing dust/fume/gas/mist/vapours/spray.
Wash hands, face and all exposed skin areas after handling.
Do not eat, drink, or smoke when using this product.
Use only outdoors or in a well ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection

PRECAUTIONARY STATEMENTS (RESPONSE):
IF SWALLOWED: Immediately call a poison center or doctor or physician. Do not induce vomiting. Rinse mouth.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor or physician.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

IN CASE OF FIRE: Use dry chemical, co2 or foam to extinguish

PRECAUTIONARY STATEMENTS (STORAGE):
Store in a well ventilated place, keep container tightly closed. Keep cool. Store locked up.

PRECAUTIONARY STATEMENTS (DISPOSAL):
Dispose of contents/container to an approved waste disposal plant in accordance with applicable local/regional/national and international regulations and product characteristics at time of disposal.

OTHER HAZARDS:
Repeated or prolonged exposure can cause skin dryness or cracking.

3. COMPOSITION INFORMATION ON INGREDIENTS

INGREDIENT IDENTITY	CAS NUMBER	PERCENTAGE
DISTILLATES, PETROLEUM HYDROTREATED, LIGHT	64742-47-8	PROPRIETARY
2-BUTOXYETHANOL	111-76-2	PROPRIETARY

REMAINING INGREDIENTS ARE NOT REPORTABLE UNDER OSHA/SDS GUIDELINES. THE EXACT PERCENTAGES OF SOME INGREDIENTS HAVE BEEN WITHELD AS (CBI) CONFIDENTIAL BUSINESS INFORMATION TRADE SECRET.

4. FIRST AID MEASURES

INGESTION: If swallowed, call a poison control center immediately. Wash out mouth with water. Do not induce vomiting; this product is an aspiration hazard. If spontaneous vomiting occurs, keep head below hips to prevent aspiration of liquid into the lung. Never give anything by mouth to an unconscious person.

SKIN CONTACT: Remove contaminated clothing. Wash affected area with soap and plenty of water. Wash contaminated clothing before reuse. If irritation occurs get medical advice.

INHALATION: Move individual away from exposure and into fresh air. If breathing is irregular or stopped, administer artificial respiration. In case of shortness of breath, give oxygen. Call a physician immediately.

EYE CONTACT: Rinse cautiously with water for several minutes. Remove contact lenses if easy to do. Continue rinsing. If eye irritation persists, get medical attention/advice.

Most Important Symptoms and Effects, Acute and Delayed

INGESTION: Symptoms may include diarrhea, gastric pain, and vomiting.
SKIN CONTACT: Symptoms may include redness, dryness and cracking of skin.
INHALATION: Symptoms may include irritation of respiratory tract and/or CNS symptoms such as dizziness,
confusion, drowsiness or fatigue.
EYE CONTACT: Symptoms may include stinging, tearing, redness and blurred vision.

Indication of immediate medical attention and special treatment needed, if necessary.
Treat Symptomatically.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Use fire extinguishers rated for class B fires. CO2, Foam.
Unsuitable extinguishing media- Do not use water jet. If water is used utilize fog nozzle or apparatus.

Specific hazards arising from the chemical: Combustible liquid. In a fire or if heated, a pressure increase will occur and the container may burst. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

Hazardous thermal decomposition products: carbon monoxide and CO2

Special protective actions for fire-fighters: Keep product containers and surrounding areas cool with water spray. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters: Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No Flares, smoking or flames in hazard

area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of information in section 8 for further information. See also information in non-emergency personnel above.

Environmental precautions: Avoid dispersal of spilled material with soil, waterways, drains and sewers. See section 12 for additional ecological information.

Methods and materials for containment and cleaning up.

Small spill: Stop leak if without risk. Move containers from the spill area. Use spark proof tools and equipment. Absorb with an inert dry non combustible material such as diatomaceous earth or vermiculite and place in an appropriate waste disposal container. Mop any remaining residues with soap and water and dispose of wastes via a licensed waste disposal contractor according to federal, state and local regulations.

Large spill: Stop leak if without risk. Move containers from spill area. Use spark proof tools and equipment. Prevent entry into sewers, drains, water courses and confined areas. Wash spillages into an effluent treatment plant or absorb with an inert dry non combustible material such as diatomaceous earth or vermiculite and place in a appropriate waste disposal containers. Mop any remaining residues with soap and water and dispose of wastes via a licensed waste disposal contractor according to federal, state and local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling:

Safe Handling Advice: Utilize appropriate personal protective equipment when handling product. Do not swallow. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mists. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container and tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. No smoking. Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection and face protection during use. Groundbond container and receiving equipment during transfer. Do not flame cut, braize or weld emptied containers as they contain product residues and all precautions within this sds still apply and should be followed.

Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also section 8 for additional hygiene information.

Conditions for safe storage including any incompatibilities:

Store in original container in a dry, cool and well ventilated area away from strong oxidizing agents (see section 10) and food and drink. Store locked up. Eliminate all ignition sources. Keep container tightly closed when not in use. Do not store in unlabeled containers.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Control Parameters

Occupational Exposure Limits

Ingredient Identity	ACGIH TLV	OSHA PEL	NIOSH IDLH
2-butoxyethanol 111-76-2	TWA 20ppm	TWA 50ppm TWA 240mg/m3	IDLH 700ppm
Distillates, Petroleum Hydrotreated, Light 64742-47-8	TWA: skin absorption 200mg/m3 (as total hydrocarbon vapor) 8 hours		

Appropriate Engineering Controls

Engineering Controls: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants and air concentrations below occupational exposure standards. Use spark proof ventilation equipment.

Individual protection measures, such as personal protective equipment. (PPE)

Eye/Face Protection: Wear approved safety goggles with side shields

Skin & Body Protection: Wear chemical resistant, impervious gloves at all times when handling chemical products. A chemical resistant apron is also recommended. Check during use that gloves and aprons are still retaining their impervious properties, as the time for breakthrough can change from different manufacturers and chemical mixtures can not always be accurately measured. Appropriate footwear and suitable protective clothing should be worn for the degree and risk of exposure.

Respiratory Protection: If workplace exposure limits of product or any component is exceeded, utilize proper respiratory protection program guidelines (see OSHA 1910.134 and American National Standard ANSI Z88.2) Use a properly fitted NIOSH/MSHA air-purifying or air-fed respirator in compliance with the above mentioned standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: blue liquid
Odor: mild to light solvent
Odor threshold: not available
pH: not applicable
Melting Point/Freezing Point: -56F
Initial Boiling Point/Range: 344F-473F
Flash Pt: 158F lowest ingredient, does not sustain combustion
Evaporation Rate: <1 (butyl acetate=1)
Lower explosive limits: .6%Aliphatic Solvent
Upper explosive limits: 7.0%Aliphatic Solvent
Vapor Pressure: . meets CARB guidelines
Vapor Density: 4.5-5 (air=1)
Relative Density: .83
Solubility in water: Emulsifies
Partition coefficient: not applicable
Auto ignition temp: >428F
Decomposition Temp: not available
Viscosity: not applicable

10. STABILITY AND REACTIVITY

Reactivity: Stable in normal ambient temperature and pressure

Chemical Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: not under normal conditions of storage and use.

Conditions to Avoid: Avoid all possible sources of ignition. Do not pressurize, cut weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
Incompatible Materials: Oxidizing materials

Hazardous Decomposition Products: Carbon monoxide and Carbon Dioxide

11. TOXICOLOGICAL INFORMATION

Acute toxicity: classified, oral toxicity category 4, inhalation toxicity category 3

Distillates Petroleum Hydrotreated, Light 64742-47-8	**Inhalation LC50**	**6.8mg/l no end pt, no effects**
	Oral LD50	**>5000mg/kg rat**
2-butoxyethanol 111-76-2		
	Oral LD50	**1414mg/kg guinea pig**
	Inhalation LC50	**3.1mg/l guinea pig >641ppm**

Skin corrosion irritation: Not classified,

Serious Eye damage: classified, category 2, Causes serious eye irritation, 2-butoxyethanol 111-76-2

Sensitization: Not classified

Mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive Toxicity: Not Classified

Teratogenicity: Not Available

Specific target Organ Toxicity (single exposure):

Name	category	route of exposure	target organs
2-butoxyethanol 111-76-2,	**3,**	**inhalation**	**nervous system, drowsiness or dizziness**

Specific target Organ Toxicity (repeated exposure)
Not Available

Aspiration Hazard:

Distillate petroleum hydrotreated, light 64742-47-8 , Aspiration Hazard Category 1

Information on the likely routes of exposure:

Ingestion: May be harmful if swallowed. May be fatal if swallowed and enters airways.
Inhalation: Toxic if inhaled
Skin: Causes skin irritation.
Eye: Causes serious eye irritation

Symptoms related to the physical, chemical and toxicological characteristics

Ingestion: See section iv, most important symptoms and effects, acute and delayed.
Inhalation: See section iv, most important symptoms and effects, acute and delayed.
Skin: See section iv, most important symptoms and effects, acute and delayed.
Eye: See section iv, most important symptoms and effects, acute and delayed.

Delayed and immediate effects and also chronic effects from short and long term exposure.

General: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis
Carcinogenicity: no known significant effects or critical hazards. Not classifiable.

Numerical measures of Toxicity

Not Available

12. ECOLOGICAL INFORMATION

Toxicity:

Ingredient name	Result	Species	Exposure
Aliphatic Solvent, Chronic NOEL	0.48 mg/l	Daphnia	21 days

Persistence and degradability:

Distillate Petroleum: Biodegradability-inherent
Hydrotreated
2-butoxyethanol: 90.4% readily biodegradable after 28 days.

Bioaccumulation Potential:

2-butoxyethanol: BCF 3.16, This material is not expected to bioaccumulate

Mobility in Soil:

2-butoxyethanol: low adsorption to soil particulates predicted

Other adverse Effects:

No known significant effects or critical hazards

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with applicable federal, state and local regulations.

14. TRANSPORTATION INFORMATION

DOT:

This product is NOT REGULATED if packaged under 119 gallons per container by DOT when shipping in North America.

UN ID # NA1993
SHIPPING NAME: COMBUSTIBLE LIQUID, N.O.S. (CONTAINS PETROLEUM DISTILLATES)
HAZARD CLASS: 3
PACKING GROUP: III
RQ N/A
PLACARDING: PLACARDING EXEMPTION 173.150F

IATA: NOT REGULATED

IMDG: NOT REGULATED

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS: All ingredients are listed or exempted with TSCA.

SARA 302/304: no products were found.
SARA 311/312: fire hazard

Ingredient	%	FIRE HAZARD	PRESSURE RELEASE	REACTIVE	IMMEDIATE ACUTE	DELAYED CHRONIC
Distillate Petroleum, Hydrotreated	80-95	YES	NO	NO	NO	NO
2butoxyethanol 111-76-2	PROPRIETARY	YES			YES	YES

SARA 313
2-butoxyethanol 111-76-2 PROPRIETARY, REPORTING THRESHOLD-1%

STATE REGULATIONS:

Ingredient	New York	New Jersey	Massachusetts	Pennsylvania
Distillate Petroleum Hydrotreated. 64742-47-8	No	No	No	No
2-butoxyethanol 111-76-2	No	Yes	Yes	yes

California Prop 65: none known

16. OTHER INFORMATION

HMIS RATING: HEALTH (1) FIRE (2) REACTIVITY (0)
4=EXTREME, 3=HIGH, 2=MODERATE, 1=SLIGHT, 0=INSIGNIFICANT

NOTICE TO READER:
To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. The information on this sds was obtained from sources which we believe are reliable. However, the information is provided without any warranty, expressed or implied, regarding its correctness. Users are advised to confirm in advance of need, that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the sds. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed.

APPENDIX C

Galson TO-15 Lab Reports

SGS GALSON

Larry Goldstein
QuES&T
1376 Route 9
Wappingers Falls, NY 12590

April 19, 2023

Account# 14655

Login# L591570

Dear Larry Goldstein:

Enclosed are the analytical results for the samples received by our laboratory on April 18, 2023. All samples on the chain of custody were received in good condition unless otherwise noted. Any additional observations will be noted on the chain of custody.

Please contact client services at (888) 432-5227 if you would like any additional information regarding this report. Thank you for using SGS Galson.

Sincerely,

SGS Galson

Lisa Swab

Lisa Swab
Laboratory Director

Enclosure(s)

Terms and Conditions & General Disclaimers

- This document is issued by the Company under its General Conditions of Service accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

- Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Analytical Disclaimers

- Unless otherwise noted within the report, all quality control results associated with the samples were within established control limits or did not impact reported results.

- Note: The findings recorded within this report were drawn from analysis of the sample(s) provided to the laboratory by the Client (or a third party acting at the Client's direction). The laboratory does not have control over the sampling process, including but not limited to the use of field equipment and collection media, as well as the sampling duration, collection volume or any other collection parameter used by the Client. The findings herein constitute no warranty of the sample's representativeness of any sampled environment, and strictly relate to the samples as they were presented to the laboratory. For recommended sampling collection parameters, please refer to the Sampling and Analysis Guide at www.sgsgalson.com.

- Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceding the final result column may have been rounded and therefore, if carried through the calculations, may not yield an identical final result to the one reported.

- The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).

- Unless otherwise noted within the report, results have not been blank corrected for any field blank or method blank data.

Accreditations SGS Galson holds a variety of accreditations and recognitions. Our quality management system conforms with the requirements of ISO/IEC 17025. Where applicable, samples may also be analyzed in accordance with the requirements of ELAP, NELAC, or LELAP under one of the state accrediting bodies listed below. Current Scopes of Accreditation can be viewed at http://www.sgsgalson.com in the accreditations section of the "About" page. To determine if the analyte tested falls under our scope of accreditation, please visit our website or call Client Services at (888) 432-5227.

National/International	Accreditation/Recognition	Lab ID#	Program/Sector
AIHA-LAP, LLC - IHLAP, ELLAP, EMLAP	ISO/IEC 17025 and USEPA NLLAP	Lab ID 100324	Industrial Hygiene, Environmental Lead, Environmental Microbiology

State	Accreditation/Recognition	Lab ID#	Program/Sector
New York (NYSDOH)	ELAP and NELAC (TNI)	Lab ID: 11626	Air Analysis, Solid and Hazardous Waste
Louisiana (LDEQ)	LELAP	Lab ID: 04083	Air Analysis, Solid Chemical Materials

Legend

< - Less than	mg - Milligrams	MDL - Method Detection Limit	ppb - Parts per Billion
> - Greater than	ug - Micrograms	NA - Not Applicable	ppm - Parts per Million
l - Liters	m3 - Cubic Meters	NS - Not Specified	ppbv - ppb Volume
LOQ - Limit of Quantitation	kg - Kilograms	ND - Not Detected	ppmv - ppm Volume
ft2 - Square Feet	cm2 - Square Centimeters	in2 - Square Inches	ng - Nanograms

SGS GALSON

6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.sgsgalson.com

LELAP Lab ID #04083

LABORATORY ANALYSIS REPORT

Client : QuES&T
Site : RICCARDI ELEMENTARY
Project No. : 23-5295 RICCARDI ELEMENTARY SCHOOL
Date Sampled : 17-APR-23
Date Received : 18-APR-23

Account No.: 14655
Login No. : L591570
Date Analyzed : 18-APR-23
Report ID : 1353486

TO15 List

Galson ID:			L591570-1		L591570-2		L591570-3	
Client ID:			5295-01 ROOM 109		5295-02 OUTDOOR		5295-03 CORRIDOR 127	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Propylene	5.0	8.6	<5.0	<8.6	<5.0	<8.6	<5.0	<8.6
Freon-12	0.80	4.0	<0.80	<4.0	<0.80	<4.0	<0.80	<4.0
Chloromethane	0.80	1.7	<0.80	<1.7	<0.80	<1.7	<0.80	<1.7
Freon-114	0.80	5.6	<0.80	<5.6	<0.80	<5.6	<0.80	<5.6
Vinyl Chloride	0.80	2.0	<0.80	<2.0	<0.80	<2.0	<0.80	<2.0
1,3-Butadiene	0.80	1.8	<0.80	<1.8	<0.80	<1.8	<0.80	<1.8
n-Butane	0.80	1.9	<0.80	<1.9	<0.80	<1.9	<0.80	<1.9
Bromomethane	0.80	3.1	<0.80	<3.1	<0.80	<3.1	<0.80	<3.1
Chloroethane	0.80	2.1	<0.80	<2.1	<0.80	<2.1	<0.80	<2.1
Acetonitrile	5.0	8.4	<5.0	<8.4	<5.0	<8.4	<5.0	<8.4
Vinyl Bromide	0.80	3.5	<0.80	<3.5	<0.80	<3.5	<0.80	<3.5
Acrolein	0.80	1.8	<0.80	<1.8	<0.80	<1.8	<0.80	<1.8
Acetone	5.0	12	7.8	19	<5.0	<12	12	29

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : NKP

Supervisor: BLD
Approved by : JMR
Date : 19-APR-23

SGS GALSON

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Client : QuES&T
Site : RICCARDI ELEMENTARY
Project No. : 23-5295 RICCARDI ELEMENTARY SCHOOL
Date Sampled : 17-APR-23
Date Received : 18-APR-23

Account No.: 14655
Login No. : L591570
Date Analyzed : 18-APR-23
Report ID : 1353486

TO15 List

Galson ID:			L591570-1		L591570-2		L591570-3	
Client ID:			5295-01 ROOM 109		5295-02 OUTDOOR		5295-03 CORRIDOR 127	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Freon-11	0.80	4.5	<0.80	<4.5	<0.80	<4.5	<0.80	<4.5
Isopropyl Alcohol	5.0	12	14	35	<5.0	<12	<5.0	<12
Acrylonitrile	0.80	1.7	<0.80	<1.7	<0.80	<1.7	<0.80	<1.7
Pentane	0.80	2.4	5.6	17	2.8	8.4	7.5	22
Ethyl Bromide	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6
1,1-Dichloroethene	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
tert-Butyl Alcohol	5.0	15	<5.0	<15	<5.0	<15	<5.0	<15
Methylene Chloride	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8
Freon-113	0.80	6.1	<0.80	<6.1	<0.80	<6.1	<0.80	<6.1
Carbon Disulfide	5.0	16	<5.0	<16	<5.0	<16	<5.0	<16
Allyl Chloride	0.80	2.5	<0.80	<2.5	<0.80	<2.5	<0.80	<2.5
trans-1,2-Dichloroethene	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
1,1-Dichloroethane	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : NKP

Supervisor: BLD
Approved by : JMR
Date : 19-APR-23

SGS GALSON

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LELAP Lab ID #04083

LABORATORY ANALYSIS REPORT

Client : QuES&T
Site : RICCARDI ELEMENTARY
Project No. : 23-5295 RICCARDI ELEMENTARY SCHOOL
Date Sampled : 17-APR-23
Date Received : 18-APR-23

Account No.: 14655
Login No. : L591570
Date Analyzed : 18-APR-23
Report ID : 1353486

TO15 List

Galson ID:			L591570-1		L591570-2		L591570-3	
Client ID:			5295-01 ROOM 109		5295-02 OUTDOOR		5295-03 CORRIDOR 127	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Methyl tert-Butyl Ether	0.80	2.9	<0.80	<2.9	<0.80	<2.9	<0.80	<2.9
Vinyl Acetate	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8
Methyl Ethyl Ketone	0.80	2.4	<0.80	<2.4	<0.80	<2.4	<0.80	<2.4
cis-1,2-Dichloroethylene	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
Hexane	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8
Ethyl Acetate	0.80	2.9	<0.80	<2.9	<0.80	<2.9	0.80	2.9
Chloroform	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
Tetrahydrofuran	0.80	2.4	<0.80	<2.4	<0.80	<2.4	<0.80	<2.4
1,2-Dichloroethane	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
1,1,1-Trichloroethane	0.80	4.4	<0.80	<4.4	<0.80	<4.4	<0.80	<4.4
Benzene	0.80	2.6	<0.80	<2.6	<0.80	<2.6	<0.80	<2.6
Carbon Tetrachloride	0.80	5.0	<0.80	<5.0	<0.80	<5.0	<0.80	<5.0
Cyclohexane	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : NKP

Supervisor: BLD
Approved by : JMR
Date : 19-APR-23

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TO15 List

Galson ID:			L591570-1		L591570-2		L591570-3	
Client ID:			5295-01 ROOM 109		5295-02 OUTDOOR		5295-03 CORRIDOR 127	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
1,2-Dichloropropane	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Bromodichloromethane	0.80	5.4	<0.80	<5.4	<0.80	<5.4	<0.80	<5.4
1,4-Dioxane	0.80	2.9	<0.80	<2.9	<0.80	<2.9	<0.80	<2.9
Trichloroethylene	0.80	4.3	<0.80	<4.3	<0.80	<4.3	<0.80	<4.3
2,2,4-Trimethylpentane	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Methyl Methacrylate	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3
Heptane	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3
cis-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6
trans-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6
1,1,2-Trichloroethane	0.80	4.4	<0.80	<4.4	<0.80	<4.4	<0.80	<4.4
Methyl Isobutyl Ketone	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3
Toluene	0.80	3.0	4.8	18	2.2	8.3	3.4	13
Methyl Butyl Ketone	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : NKP

Supervisor: BLD
Approved by : JMR
Date : 19-APR-23

SGS GALSON

LABORATORY ANALYSIS REPORT

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Client : QuES&T
Site : RICCARDI ELEMENTARY
Project No. : 23-5295 RICCARDI ELEMENTARY SCHOOL
Date Sampled : 17-APR-23
Date Received : 18-APR-23

Account No.: 14655
Login No. : L591570
Date Analyzed : 18-APR-23
Report ID : 1353486

TO15 List

Galson ID:			L591570-1		L591570-2		L591570-3	
Client ID:			5295-01 ROOM 109		5295-02 OUTDOOR		5295-03 CORRIDOR 127	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Dibromochloromethane	0.80	6.8	<0.80	<6.8	<0.80	<6.8	<0.80	<6.8
1,2-Dibromoethane	0.80	6.1	<0.80	<6.1	<0.80	<6.1	<0.80	<6.1
Tetrachloroethylene	0.80	5.4	<0.80	<5.4	<0.80	<5.4	<0.80	<5.4
Chlorobenzene	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Ethylbenzene	0.80	3.5	<0.80	<3.5	<0.80	<3.5	<0.80	<3.5
m & p-Xylene	1.6	6.9	<1.6	<6.9	<1.6	<6.9	<1.6	<6.9
Bromoform	0.80	8.3	<0.80	<8.3	<0.80	<8.3	<0.80	<8.3
Styrene	0.80	3.4	<0.80	<3.4	<0.80	<3.4	<0.80	<3.4
1,1,2,2-Tetrachloroethane	0.80	5.5	<0.80	<5.5	<0.80	<5.5	<0.80	<5.5
o-Xylene	0.80	3.5	<0.80	<3.5	<0.80	<3.5	<0.80	<3.5
Nonane	0.80	4.2	<0.80	<4.2	<0.80	<4.2	<0.80	<4.2
Cumene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
2-Chlorotoluene	0.80	4.1	<0.80	<4.1	<0.80	<4.1	<0.80	<4.1

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : NKP

Supervisor: BLD
Approved by : JMR
Date : 19-APR-23

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LELAP Lab ID #04083

LABORATORY ANALYSIS REPORT

Client : QuES&T
Site : RICCARDI ELEMENTARY
Project No. : 23-5295 RICCARDI ELEMENTARY SCHOOL
Date Sampled : 17-APR-23
Date Received : 18-APR-23

Account No.: 14655
Login No. : L591570
Date Analyzed : 18-APR-23
Report ID : 1353486

TO15 List

Galson ID:			L591570-1		L591570-2		L591570-3	
Client ID:			5295-01 ROOM 109		5295-02 OUTDOOR		5295-03 CORRIDOR 127	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
n-Propylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
4-Ethyltoluene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
1,3,5-Trimethylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
1,2,4-Trimethylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
Benzyl Chloride	0.80	4.1	<0.80	<4.1	<0.80	<4.1	<0.80	<4.1
1,3-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8
1,4-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8
1,2-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8
Naphthalene	0.80	4.2	<0.80	<4.2	<0.80	<4.2	<0.80	<4.2

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : NKP

Approved by : JMR
Date : 19-APR-23

Supervisor: BLD

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Account No.: 14655
Login No. : L591570
Date Analyzed : 18-APR-23
Report ID : 1353486

TO15 List

Galson ID: L591570-4
Client ID: 5295-04 FACULTY ROOM

	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3
Propylene	5.0	8.6	<5.0	<8.6		
Freon-12	0.80	4.0	<0.80	<4.0		
Chloromethane	0.80	1.7	<0.80	<1.7		
Freon-114	0.80	5.6	<0.80	<5.6		
Vinyl Chloride	0.80	2.0	<0.80	<2.0		
1,3-Butadiene	0.80	1.8	<0.80	<1.8		
n-Butane	0.80	1.9	<0.80	<1.9		
Bromomethane	0.80	3.1	<0.80	<3.1		
Chloroethane	0.80	2.1	<0.80	<2.1		
Acetonitrile	5.0	8.4	<5.0	<8.4		
Vinyl Bromide	0.80	3.5	<0.80	<3.5		
Acrolein	0.80	1.8	<0.80	<1.8		
Acetone	5.0	12	13	31		

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : NKP

Approved by : JMR
Date : 19-APR-23

Supervisor: BLD

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LABORATORY ANALYSIS REPORT

Client : QuES&T
Site : RICCARDI ELEMENTARY
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Login No. : L591570
Date Analyzed : 18-APR-23
Report ID : 1353486

TO15 List

Galson ID: L591570-4
Client ID: 5295-04 FACULTY ROOM

	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3
Freon-11	0.80	4.5	<0.80	<4.5		
Isopropyl Alcohol	5.0	12	<5.0	<12		
Acrylonitrile	0.80	1.7	<0.80	<1.7		
Pentane	0.80	2.4	8.6	25		
Ethyl Bromide	0.80	3.6	<0.80	<3.6		
1,1-Dichloroethene	0.80	3.2	<0.80	<3.2		
tert-Butyl Alcohol	5.0	15	<5.0	<15		
Methylene Chloride	0.80	2.8	<0.80	<2.8		
Freon-113	0.80	6.1	<0.80	<6.1		
Carbon Disulfide	5.0	16	<5.0	<16		
Allyl Chloride	0.80	2.5	<0.80	<2.5		
trans-1,2-Dichloroethene	0.80	3.2	<0.80	<3.2		
1,1-Dichloroethane	0.80	3.2	<0.80	<3.2		

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : NKP

Approved by : JMR
Date : 19-APR-23

Supervisor: BLD

SGS GALSON

6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.sgsgalson.com

LELAP Lab ID #04083

LABORATORY ANALYSIS REPORT

Client : QuES&T
Site : RICCARDI ELEMENTARY
Project No. : 23-5295 RICCARDI ELEMENTARY SCHOOL
Date Sampled : 17-APR-23
Date Received : 18-APR-23

Account No.: 14655
Login No. : L591570
Date Analyzed : 18-APR-23
Report ID : 1353486

TO15 List

Galson ID: L591570-4
Client ID: 5295-04 FACULTY ROOM

	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3
Methyl tert-Butyl Ether	0.80	2.9	<0.80	<2.9		
Vinyl Acetate	0.80	2.8	<0.80	<2.8		
Methyl Ethyl Ketone	0.80	2.4	<0.80	<2.4		
cis-1,2-Dichloroethylene	0.80	3.2	<0.80	<3.2		
Hexane	0.80	2.8	<0.80	<2.8		
Ethyl Acetate	0.80	2.9	<0.80	<2.9		
Chloroform	0.80	3.9	<0.80	<3.9		
Tetrahydrofuran	0.80	2.4	<0.80	<2.4		
1,2-Dichloroethane	0.80	3.2	<0.80	<3.2		
1,1,1-Trichloroethane	0.80	4.4	<0.80	<4.4		
Benzene	0.80	2.6	<0.80	<2.6		
Carbon Tetrachloride	0.80	5.0	<0.80	<5.0		
Cyclohexane	0.80	2.8	<0.80	<2.8		

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : NKP

Approved by : JMR
Date : 19-APR-23

Supervisor: BLD

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LABORATORY ANALYSIS REPORT

Client : QuES&T
Site : RICCARDI ELEMENTARY
Project No. : 23-5295 RICCARDI ELEMENTARY SCHOOL
Date Sampled : 17-APR-23
Date Received : 18-APR-23

Account No.: 14655
Login No. : L591570
Date Analyzed : 18-APR-23
Report ID : 1353486

TO15 List

Galson ID: L591570-4
Client ID: 5295-04 FACULTY ROOM

	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3
1,2-Dichloropropane	0.80	3.7	<0.80	<3.7		
Bromodichloromethane	0.80	5.4	<0.80	<5.4		
1,4-Dioxane	0.80	2.9	<0.80	<2.9		
Trichloroethylene	0.80	4.3	<0.80	<4.3		
2,2,4-Trimethylpentane	0.80	3.7	<0.80	<3.7		
Methyl Methacrylate	0.80	3.3	<0.80	<3.3		
Heptane	0.80	3.3	<0.80	<3.3		
cis-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6		
trans-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6		
1,1,2-Trichloroethane	0.80	4.4	<0.80	<4.4		
Methyl Isobutyl Ketone	0.80	3.3	<0.80	<3.3		
Toluene	0.80	3.0	3.6	14		
Methyl Butyl Ketone	0.80	3.3	<0.80	<3.3		

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : NKP

Approved by : JMR
Date : 19-APR-23

Supervisor: BLD

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LELAP Lab ID #04083

LABORATORY ANALYSIS REPORT

Client : QuES&T
Site : RICCARDI ELEMENTARY
Project No. : 23-5295 RICCARDI ELEMENTARY SCHOOL
Date Sampled : 17-APR-23
Date Received : 18-APR-23

Account No.: 14655
Login No. : L591570
Date Analyzed : 18-APR-23
Report ID : 1353486

TO15 List

Galson ID: L591570-4
Client ID: 5295-04 FACULTY ROOM

	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3
Dibromochloromethane	0.80	6.8	<0.80	<6.8		
1,2-Dibromoethane	0.80	6.1	<0.80	<6.1		
Tetrachloroethylene	0.80	5.4	<0.80	<5.4		
Chlorobenzene	0.80	3.7	<0.80	<3.7		
Ethylbenzene	0.80	3.5	<0.80	<3.5		
m & p-Xylene	1.6	6.9	<1.6	<6.9		
Bromoform	0.80	8.3	<0.80	<8.3		
Styrene	0.80	3.4	<0.80	<3.4		
1,1,2,2-Tetrachloroethane	0.80	5.5	<0.80	<5.5		
o-Xylene	0.80	3.5	<0.80	<3.5		
Nonane	0.80	4.2	<0.80	<4.2		
Cumene	0.80	3.9	<0.80	<3.9		
2-Chlorotoluene	0.80	4.1	<0.80	<4.1		

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : NKP

Approved by : JMR
Date : 19-APR-23

Supervisor: BLD

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LELAP Lab ID #04083

LABORATORY ANALYSIS REPORT

Client : QuES&T
Site : RICCARDI ELEMENTARY
Project No. : 23-5295 RICCARDI ELEMENTARY SCHOOL
Date Sampled : 17-APR-23
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Account No.: 14655
Login No. : L591570
Date Analyzed : 18-APR-23
Report ID : 1353486

TO15 List

Galson ID: L591570-4
Client ID: 5295-04 FACULTY ROOM

	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3
n-Propylbenzene	0.80	3.9	<0.80	<3.9		
4-Ethyltoluene	0.80	3.9	<0.80	<3.9		
1,3,5-Trimethylbenzene	0.80	3.9	<0.80	<3.9		
1,2,4-Trimethylbenzene	0.80	3.9	<0.80	<3.9		
Benzyl Chloride	0.80	4.1	<0.80	<4.1		
1,3-Dichlorobenzene	0.80	4.8	<0.80	<4.8		
1,4-Dichlorobenzene	0.80	4.8	<0.80	<4.8		
1,2-Dichlorobenzene	0.80	4.8	<0.80	<4.8		
Naphthalene	0.80	4.2	<0.80	<4.2		

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : NKP

Approved by : JMR
Date : 19-APR-23

Supervisor: BLD

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Client Name : QuES&T
Site : RICCARDI ELEMENTARY
Project No. : 23-5295 RICCARDI ELEMENTARY SCHOOL

Date Sampled : 17-APR-23 Account No.: 14655
Date Received: 18-APR-23 Login No. : L591570
Date Analyzed: 18-APR-23

L591570 (Report ID: 1353486):
NYSDOH does not offer a certification for the following compounds:
Propylene, Ethyl Acetate, Tetrahydrofuran, Methyl n-Butyl Ketone, 4-Ethyl Toluene, n-Butane,
Pentane, Ethyl Bromide, Nonane, and n-Propylbenzene.
SOPs: in-vocs(44)

L591570-1-4 (Report ID: 1353486):
Acetone result may be biased high due to co-elution with 2-methylbutane.

L591570-2 (Report ID: 1353486):
Sample canister was received at/near ambient pressure.

L591570 (Report ID: 1353486):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2). The estimated accuracy applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process. The accuracy is based solely on spike recovery data from internal quality control samples. Where N/A appears below, insufficient data is available to provide statistical accuracy and mean recovery values for the associated analyte.

Parameter	Accuracy	Mean Recovery
1,1,2,2-Tetrachloroethane	+/-9.1%	102%
1,1,2-Trichloroethane	+/-6.6%	100%
1,1-Dichloroethane	+/-8.6%	98.9%
1,1-Dichloroethene	+/-11.7%	98.8%
1,2,4-Trimethylbenzene	+/-12.8%	106%
1,2-Dibromoethane	+/-7.8%	102%
1,2-Dichlorobenzene	+/-9.9%	105%
1,2-Dichloroethane	+/-14.5%	100%
1,2-Dichloropropane	+/-9.9%	99.3%
1,3,5-Trimethylbenzene	+/-11.4%	104%
1,3-Dichlorobenzene	+/-10.4%	104%
1,4-Dichlorobenzene	+/-10.7%	102%
2,2,4-Trimethylpentane	+/-10.3%	101%
2-Chlorotoluene	+/-9.8%	104%
4-Ethyltoluene	+/-10.7%	105%
Acrolein	+/-20.2%	101%
Acrylonitrile	+/-12.4%	99.4%
Allyl Chloride	+/-15.8%	101%
Acetonitrile	+/-18.7%	96.3%
Acetone	+/-13.2%	98%
Bromodichloromethane	+/-9.5%	102%
Bromoform	+/-13.5%	107%
1,3-Butadiene	+/-18.3%	97.6%
n-Butane	+/-20.2%	96.6%

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Client Name : QuES&T
Site : RICCARDI ELEMENTARY
Project No. : 23-5295 RICCARDI ELEMENTARY SCHOOL

Date Sampled : 17-APR-23 Account No.: 14655
Date Received: 18-APR-23 Login No. : L591570
Date Analyzed: 18-APR-23

Benzene	+/-7.4%	100%
Benzyl Chloride	+/-14.8%	111%
Carbon Disulfide	+/-7.8%	98.6%
Carbon Tetrachloride	+/-13.3%	102%
cis-1,2-Dichloroethylene	+/-9.9%	100%
cis-1,3-Dichloropropene	+/-8%	103%
Chlorobenzene	+/-8.1%	99.3%
Dibromochloromethane	+/-9.1%	105%
Chloroform	+/-9.3%	101%
Cumene	+/-10.7%	103%
Cyclohexane	+/-9.9%	100%
1,4-Dioxane	+/-8.9%	103%
Ethyl Acetate	+/-15.1%	98.5%
Ethylbenzene	+/-9.6%	103%
Chloroethane	+/-18.5%	98.6%
Ethyl Bromide	+/-12.4%	99.9%
Freon-11	+/-14.3%	101%
Freon-113	+/-6.5%	99.2%
Freon-114	+/-14.5%	99.9%
Freon-12	+/-14.6%	101%
Heptane	+/-14.2%	99.3%
Isopropyl Alcohol	+/-15.3%	101%
1,1,1-Trichloroethane	+/-12.2%	101%
Bromomethane	+/-14.9%	99.8%
Chloromethane	+/-17.9%	97.9%
Methylene Chloride	+/-9.8%	92.2%
Methyl Ethyl Ketone	+/-13.7%	99.4%
Methyl Methacrylate	+/-12.7%	103%
Methyl Isobutyl Ketone	+/-15.4%	101%
Methyl Butyl Ketone	+/-16.8%	103%
m & p-Xylene	+/-10.4%	103%
Methyl tert-Butyl Ether	+/-11.8%	102%
Naphthalene	+/-21.6%	114%
Hexane	+/-14.1%	101%
Nonane	+/-15.8%	103%
n-Propylbenzene	+/-11.4%	104%
o-Xylene	+/-10.7%	103%
Propylene	+/-15.2%	94.4%
Pentane	+/-19.7%	97.6%
Styrene	+/-11%	105%
Trichloroethylene	+/-6.6%	101%
tert-Butyl Alcohol	+/-15.4%	104%
Tetrachloroethylene	+/-7.8%	101%
Tetrahydrofuran	+/-18.8%	102%
Toluene	+/-9.5%	102%

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Client Name : QuES&T
Site : RICCARDI ELEMENTARY
Project No. : 23-5295 RICCARDI ELEMENTARY SCHOOL

Date Sampled : 17-APR-23 Account No.: 14655
Date Received: 18-APR-23 Login No. : L591570
Date Analyzed: 18-APR-23

trans-1,2-Dichloroethene	+/-9.1%	98.7%
trans-1,3-Dichloropropene	+/-9%	104%
Vinyl Acetate	+/-20.6%	101%
Vinyl Bromide	+/-13.4%	98.4%
Vinyl Chloride	+/-15.5%	99.1%

1Z10431744678523333
Date: 04/18/23
Shipper: UPS
Initials: AMF
Prep: UNKNOWN

L591570

103,116

GALSON CHAIN OF CUSTODY

Turn Around Time (TAT):	(surcharge)
☐ Standard	0%
☐ 4 Business Days	35%
☐ 3 Business Days	50%
☐ 2 Business Days	75%
☐ Next Day by 6pm	100%
☒ Next Day by Noon	150%
☐ Same Day	200%

1 DAY

☑ Samples submitted using the FreePumpLoan™ Program

☐ Samples submitted using the FreeSamplingBadges™ Program

You may edit and complete this COC electronically by logging in to your Client Portal account at https://portal.galsonlabs.com/

Client Acct No.: 14655

Original Prep No.: PSY693545

CS Rep: NTORMEY

Online COC No.: 269919

Report To: ~~Mr. Greg Dean~~ Larry Goldstein
Company Name: QuES&T
Address 1: 1376 Route 9
Address 2:
City, State Zip: Wappingers Falls, NY 12590
Phone No.: 845 - 298 - 6031
Cell No.: ~~914 - 621 - 2188~~
Email reports to: ~~gdean@qualityenv.com~~, lab@qualityenv.com LGoldstein@qualityenv.com
Email EDD to: ~~gdean@qualityenv.com~~, morourke@qualityenv.com lab@qualityenv.com
Comments:

Invoice To: Angela Holzapfel
Company Name: QuES&T
Address 1: 1376 Route 9
Address 2:
City, State Zip: Wappingers Falls, NY 12590
Phone No.: 845 - 298 - 6031
Email Address: aholzapfel@qualityenv.com, ap@qualityenv.com
Comments:
P.O. No.:
Payment info.: ☐ I will call SGS Galson to provide credit card info
☐ Card on File (enter the last five digits on the line below)

Comments:

State Sampled: NY

Please indicate which OEL(s) this data will be used for:
☑ OSHA PEL ☐ ACGIH TLV ☐ MSHA ☐ Cal OSHA
☐ IAQ: _____ (Specify Limit(s)) ☐ Other: _____ (Specify Other)

Site Name: Riccardi Elementary
Project: ~~23-5225~~ 23-5295 Riccardi Elementary School
Sampled By: Zach Timpano
List description of industry or Process/interferences present in sampling area:

Sample ID * (Maximum of 20 Characters)	Date Sampled *	Collection Medium	Sample Volume Sample Time Sample Area *	Liters Minutes in², cm², ft² *	Analysis Requested	Method Reference ^	Hexavalent Chromium Process (e.g., welding, plating, painting, etc.)
5295-01 Room 109	4/17/23	Minican, 1 L	480	Minutes	Volatile Organics Profile (TO15 list)	mod. OSHA PV2120/mod. EPA TO15; GC/MS	WA646

☐ ^ If the method(s) indicated on the COC are not our routine/preferred method(s), we will substitute our routine/preferred methods. If this is not acceptable, check here to have us contact you.

Chain of Custody	Print Name / Signature		Date	Time		Print Name / Signature		Date	Time
Relinquished By:	Zach Timpano		4/17/23	1715	Received By:	Ava Ferreira		4/18/23	8:52
Relinquished By:					Received By:				

*** You must fill in these columns for any samples which you are submitting.**

Samples received after 3pm will be considered as next day's business.

Online COC No.: 269919
Prep No.: PSY693545
Account No.: 14655
Draft: 4/14/2023 4:21:09 PM

All services are rendered in accordance with the applicable SGS General Conditions of Service accessible via: http://www.sgs.com/en/Terms-and-Conditions.aspx

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SGS GALSON CHAIN OF CUSTODY

Comments :

Sample ID * (Maximum of 20 Characters)	Date Sampled *	Collection Medium	Sample Volume Sample Time Sample Area *	Liters Minutes in², cm², ft² *	Analysis Requested	Method Reference ^	Hexavalent Chromium Process (e.g., welding, plating, painting, etc.)
5295-02 Outdoor	4/17/23	Minican, 1 L	480	Minutes	Volatile Organics Profile (TO15 list)	mod. OSHA PV2120/mod. EPA TO15; GC/MS	WA509
5295-03 Corridor by 127	4/17/23	Minican, 1 L	480	Minutes	Volatile Organics Profile (TO15 list)	mod. OSHA PV2120/mod. EPA TO15; GC/MS	WA585
5295-04 Faculty Room	4/17/23	Minican, 1 L	480	Minutes	Volatile Organics Profile (TO15 list)	mod. OSHA PV2120/mod. EPA TO15; GC/MS	WA513

☐ ^ If the method(s) indicated on the COC are not our routine/preferred method(s), we will substitute our routine/preferred methods. If this is not acceptable, check here to have us contact you.

Chain of Custody	Print Name / Signature		Date	Time		Print Name / Signature		Date	Time
Relinquished By :	Zach Timpano		4/17/23	1715	Received By :	Ava Ferreira		4/18/23	8:52
Relinquished By :					Received By :				

*** You must fill in these columns for any samples which you are submitting.**

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Prep No. : PSY693545
Account No. : 14655
Draft : 4/14/2023 4:21:09 PM

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APPENDIX D

EAS Asbestos Air Sampling Reports

Eastern Analytical Services, Inc.

Air Sample Report

RE: CPN 23-5295 - Saugerties CSD - Riccardi ES - 70 Plenty Street - Saugerties, NY - 1st & 2nd Floor - Rooms 131, 109, Hall

Date Collected: 04/21/2023
Collected By: Jessica Lopez
Date Received: 04/21/2023
Date Analyzed: 04/21/2023
Analyzed By: Damien Warner
Signature:
Analyte: Fibers
Analytical Method: NIOSH 7400, Issue 3, 06/14/2019 (Olympus CX31)
NYS Lab Number: 10851

Client: QuES&T, Inc.
1376 Route 9
Wappingers Falls, NY 12590

Sample ID# / Lab ID#	Time Interval	Sample Location	Sample Notes	Volume (liters)	Concentration
5295-01 2909894	1320 1430	Environmental Inside Building	Environmental	1050.0	BDL < 7.01 f/mm² BDL < 0.003 f/cc 1.5/100 f/flds
5295-02 2909895	1321 1431	Environmental Inside Building	Environmental	1050.0	BDL < 7.01 f/mm² BDL < 0.003 f/cc 2/100 f/flds
5295-03 2909896	1322 1432	Environmental Inside Building	Environmental	1050.0	BDL < 7.01 f/mm² BDL < 0.003 f/cc 0/100 f/flds
5295-04 2909897	1323 1433	Environmental Inside Building	Environmental	1050.0	BDL < 7.01 f/mm² BDL < 0.003 f/cc 1/100 f/flds
5295-05 2909898	1324 1434	Environmental Inside Building	Environmental	1050.0	BDL < 7.01 f/mm² BDL < 0.003 f/cc 1/100 f/flds
5295-06 2909899	1325 1435	Environmental Inside Building	Environmental	1050.0	BDL < 7.01 f/mm² BDL < 0.003 f/cc 1/100 f/flds
5295-07 2909900	1326 1436	Environmental Inside Building	Environmental	1050.0	BDL < 7.01 f/mm² BDL < 0.003 f/cc 0/100 f/flds
5295-08 2909901	1327 1437	Environmental Inside Building	Environmental	1050.0	BDL < 7.01 f/mm² BDL < 0.003 f/cc 3.5/100 f/flds
5295-09 2909902	1328 1438	Environmental Inside Building	Environmental	1050.0	BDL < 7.01 f/mm² BDL < 0.003 f/cc 1.5/100 f/flds

Volume Supplied by Client for Samples Not Collected by EAS. Clearance samples must have a minimum volume of 1000 liters.
BDL = Below Detectable Limits
Liability Limited to Cost of Analysis. Samples received in acceptable condition unless otherwise noted. Results are Not Blank Corrected
Results Applicable to Those Items Tested. Interlab RSD = 0.159; Intralab RSD: (7.0-25.5 f/mm²) = 0.340 25.6-63.7 f/mm²) = 0.189 53.8-127.4 f/mm²) = 0.088 ·127.5 f/mm²) = 0.039
AIHA LAP, LLC No. 100263 Rhode Island DOH No. AAL-072 Massachusetts DOL No. A A 000072 Connecticut DOH No. PH-0622 Maine DEP No. LA-024 Vermont DOH No. AL-709936

Eastern Analytical Services, Inc.

Air Sample Report

RE: CPN 23-5295 - Saugerties CSD - Riccardi ES - 70 Plenty Street - Saugerties, NY - 1st & 2nd Floor - Rooms 131, 109, Hall

Date Collected: 04/21/2023
Collected By: Jessica Lopez
Date Received: 04/21/2023
Date Analyzed: 04/21/2023
Analyzed By: Damien Warner
Signature:
Analyte: Fibers
Analytical Method: NIOSH 7400, Issue 3, 06/14/2019 (Olympus CX31)
NYS Lab Number: 10851

Client: QuES&T, Inc.
1376 Route 9
Wappingers Falls, NY 12590

Sample ID# / Lab ID#	Time Interval	Sample Location	Sample Notes	Volume (liters)	Concentration
5295-10 2909903	1329 1439	Environmental Outside Building	Environmental	1050.0	BDL < 7.01 f/mm² BDL < 0.003 f/cc 4/100 f/flds
5295-11 2909904	NA	Not Applicable	Field Blank	0.0	BDL < 7.01 f/mm² 0/100 f/flds
5295-12 2909905	NA	Not Applicable	Field Blank	0.0	BDL < 7.01 f/mm² 0/100 f/flds

Volume Supplied by Client for Samples Not Collected by EAS. Clearance samples must have a minimum volume of 1000 liters.
BDL = Below Detectable Limits
Liability Limited to Cost of Analysis. Samples received in acceptable condition unless otherwise noted. Results are Not Blank Corrected
Results Applicable to Those Items Tested. Interlab RSD = 0.159; Intralab RSD: (7.0-25.5 f/mm²) = 0.340 25.6-63.7 f/mm²) = 0.189 53.8-127.4 f/mm²) = 0.088 ·127.5 f/mm²) = 0.039
AIHA LAP, LLC No. 100263 Rhode Island DOH No. AAL-072 Massachusetts DOL No. A A 000072 Connecticut DOH No. PH-0622 Maine DEP No. LA-024 Vermont DOH No. AL-709936