

Half Hollow Hills CSD
Six Month AHERA Surveillance
Transportation Garage
May 2023



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Project #23546

Six Month AHERA Surveillance

Performed at

Transportation Garage
25 Burrs Lane
Dix Hills, NY 11746

for

Half Hollow Hills CSD
Administration Building
525 Half Hollow Road
Dix Hills, NY 11746

May 2023

Prepared by:

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Project #23546

Inspector & Management
Planner:


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Six Month AHERA Surveillance

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I. Summary

A six month AHERA surveillance for the Transportation Garage of the Half Hollow Hills CSD was performed by Ms. Alexis Bruno and Mrs. Pamela Chadderton of Enviroscience Consultants, LLC on June 9, 2023.

The six month surveillance was performed in full accordance with the Asbestos Hazard Emergency Response Act (AHERA) regulations. Ms. Bruno and Mrs. Chadderton are certified AHERA Inspectors.

Ms. Bruno and Mrs. Chadderton performed the on-site investigation, which included examining existing ACBM, evaluating the condition of the ACBM, and determining if originally non-friable materials have become friable. The physical condition of most of the ACBM found in this building did not change.

After studying the inspection reports, Mr. Bartley M. Gallagher, a certified EPA/AHERA Inspector and Management Planner, developed the recommendations for response actions depending on his evaluation of the hazard that each material may cause.

An Inventory of Asbestos Containing Materials by location, including the AHERA Functional Space identification number is in Appendix B. This inventory includes the material, quantity, amount damaged, the hazard level, the AHERA Reassessment category, and recommended response actions. A remarks column includes sampling and abatement action and other pertinent information.

Floor plans correlating the AHERA Functional Space ID number with the current common location names are in Appendix C.

II. Inspection and Recommendations

The inspector entered all accessible spaces to inspect and physically assess the condition and friability of all previously known or assumed ACBM. The inspector noted any change in condition of remaining materials, materials that have been abated since the last reinspection, and any materials that were either not identified, or may have been improperly classified.

Unless otherwise stated, a recommendation for removal is a suggestion that the materials be removed as soon as the school's budget will allow.

During this inspection there was damage noted, repairs should be made. Please reference your Summary of Damaged Asbestos Containing Materials found in Appendix A.

Since the last surveillance, the following asbestos abatement activities were performed:

In June 2023, bulk samples were collected of ceiling drywall, ceiling joint compound, drywall, and joint compound at various locations throughout the Building Interior. Results confirmed the material sampled to be non-asbestos containing. Please reference Enviroscience Consultants, LLC chain of custody #35303 for detailed sample location information and results.

History:

In September 2022, bulk samples were collected of concrete block and concrete block mortar in the Drivers Lounge (AHERA space #1004), and the Back Garage Bay (AHERA space #1007). Results confirmed the

materials sampled to be non-asbestos containing. Please reference Enviroscience Consultants chain of custody #34031 for detailed sample location information and results.

In November 2021, Enviroscience Consultants was retained by the Half Hollow Hills Central School District to perform the surveillance inspections and three year reinspections in full accordance with the Asbestos Hazard Emergency Response Act (AHERA) regulations. Any information pertaining to the assessment and changes in condition of ACBM prior to November 2021 must be obtained from the records maintained by the Half Hollow Hills Central School District.

Any damaged material that is assumed to be asbestos containing should be sampled to confirm that it is identified as ACBM before initiating repair procedures.

The inspector did not access any flooring materials located under carpeting or new tiles because obtaining access would damage the carpet or new tiles. Prior to disturbing any carpets or removing new floor tiles, the school should ascertain whether floor tiles are located beneath them. Repair or replace damaged floor tiles as noted. We have prepared an inventory of asbestos containing materials for the building. These pages list the current damage category, changes in physical condition, current priority levels, changes in response actions, and bulk sampling and abatement information (see Appendix B).

All materials are currently classified as non-friable in their present condition.

III. Bulk Sampling Protocol

Thermal System Insulation - Three (3) samples are randomly collected for each homogeneous material of Thermal System Insulation (TSI). AHERA states that for each area of patched TSI at least one (1) sample be collected.

Surfacing Materials - a minimum of three (3), five (5) or seven (7) samples based upon the amount of suspect material present.

Miscellaneous Materials - require a minimum of two (2) samples.

New York State Revisions to Analytical Methods

Over the years, the New York State Department of Health has made several revisions to testing requirements that affect suspect asbestos materials in school buildings. These changes have resulted in the requirement to re-sample and analyze certain materials to comply with the revised analytical methods:

Surfacing Materials - In May 2016, the New York State Department of Health (NYSDOH) finalized testing requirements and approved a new analytical method for analysis of surfacing materials that contain vermiculite. Surfacing materials that could contain vermiculite include spray-on fireproofing, wall plaster, and ceiling plaster. Unfortunately, the previous analysis method for fireproofing and plasters did not specifically require that the vermiculite percentage be reported. The District must now consider any spray or troweled fireproofing or plaster materials to be presumed asbestos containing materials (PACM) until they are re-tested to conform to the new requirements. As a result, we have added any plaster previously classified as non-asbestos to the Inventory of Asbestos Containing Materials. Re-testing of any fireproofing or plaster materials will be noted in the narrative and will be shown in the Inventory.

Ceiling Tile - In August 2012, the New York State Department of Health stated that Transmission Electron Microscopy (TEM) is the only reliable method for identifying asbestos fibers in ceiling tiles that

contain cellulose. Any ceiling tiles that have not been analyzed and found negative using TEM methods must be classified as ACM unless the District has documentation that they are non-ACM. Any re-testing of ceiling tiles will be noted in the narrative and will be shown in the Inventory. The District should keep records for any new non-asbestos ceiling tiles that are installed, including the location, brand, model number, date of manufacture, and date of installation.

Floor Tile and Other NOB Materials - In 1992, the New York State Department of Health stated that Transmission Electron Microscopy (TEM) is the only reliable method for identifying asbestos fibers in non-friable organically bound (NOB) materials such as floor tiles and roofing materials. As such, any floor tiles and mastic which have not been analyzed and found negative using TEM methods must be classified as ACM unless the District has documentation that they are non-ACM. Re-testing of any floor tile, mastic or other NOB materials will be noted in the narrative and will be shown in the Inventory.

During this surveillance, bulk samples were collected of ceiling drywall, ceiling joint compound, drywall, and joint compound at various locations throughout the Building Interior. Results confirmed the material sampled to be non-asbestos containing. Please reference Enviroscience Consultants, LLC chain of custody #35303 in Appendix 'F' for detailed sample location information and results.

IV. Hazard Rank Determination

For each homogeneous material, a response action priority level is determined depending on its physical condition, location, and potential for future damage. Materials were classified into seven categories, based upon the type, condition, and potential for damage of the ACBM. The categories are as follows:

Hazard Rank	ACBM Condition	ACBM Disturbance Potential
1	Significantly Damaged	Any Potential for Damage
2	Damaged	Potential for Significant Damage
3	Damaged	Potential for Damage
4	Damaged	Low Potential for Damage
5	Good	Potential for Significant Damage
6	Good	Potential for Damage
7	Good	Low Potential for Damage

The district shall select and implement in a timely manner the appropriate response actions consistent with the assessment category. The response actions selected shall be sufficient to protect human health and the environment. The district may then select, from the response actions which protect human health and the environment, that action which is the least burdensome method. Nothing in this section shall be construed to prohibit removal of ACBM from a school building at any time, should removal be the preferred response action of the district.

If damaged or significantly damaged thermal system insulation ACM is present in a building, the district shall:

- (1) At least repair the damaged area.
- (2) Remove the damaged material if it is not feasible, due to technological factors, to repair the damage.
- (3) Maintain all thermal system insulation ACM and its covering in an intact state and undamaged condition.

If damaged friable surfacing ACM or damaged friable miscellaneous ACM is present in a building, the district shall select from among the following response actions: encapsulation, enclosure, removal, or repair of the damaged material.

In selecting the response action from among those which meet the definitional standards in §763.83, the district shall determine which of these response actions protects human health and the environment. For purposes of determining which of these response actions are the least burdensome, the district may then consider local circumstances, including occupancy and use patterns within the school building, and its economic concerns, including short and long-term costs.

V. AHERA Reassessment Category

The Management Planner is also required to classify each friable and thermal system insulation (TSI) ACBM and suspected ACBM assumed to be ACM in the school building into one of the following AHERA 1 through 7 reassessment categories based on damage, potential for damage, and material category:

- (1) Damaged or significantly damaged thermal system insulation ACM.
 - (2) Damaged friable surfacing ACM.
 - (3) Significantly damaged friable surfacing ACM.
 - (4) Damaged or significantly damaged friable miscellaneous ACM.
 - (5) ACBM with potential for damage.
 - (6) ACBM with potential for significant damage.
 - (7) Any remaining friable ACBM or friable suspected ACBM.
- N/A Not Applicable

Appendix A

INVENTORY OF DAMAGED ASBESTOS CONTAINING MATERIALS

Summary of Damaged Asbestos Containing Materials

SPACE No.	LOCATION	MATERIAL DESCRIPTION	HA/USA	QUANTITY	AMOUNT DAMAGED	HAZARD RANK	AHERA REASSESSMENT CATEGORY	RESPONSE ACTION	REMARKS
1000A	TRANSPORTATION SUPERVISOR'S OFFICE	12x12 FLOOR TILE & MASTIC BEIGE		300 SF	1 TILE	4	N/A NON FRIABLE	REPAIR	CRACKED
1000A1A	TRANSPORTATION SUPERVISOR'S OFFICE BATHROOM	CERAMIC WALL BASE GROUT & GLUE BEIGE		19 SF	<1 LF	4	N/A NON FRIABLE	REPAIR	CRACKED
1004A	DRIVERS LOUNGE STORAGE CLOSET	COVE BASE & MASTIC BEIGE		37 LF	4 LF	4	N/A NON FRIABLE	REPAIR	MISSING-LIMITED VISIBILITY
1004B	DISPATCHER OFFICE	12x12 FLOOR TILE & MASTIC BEIGE		576 SF	1 TILE	4	N/A NON FRIABLE	REPAIR	CHIPPED
		COVE BASE & MASTIC BEIGE		91 LF	<1 LF	4	N/A NON FRIABLE	REPAIR	DELAMINATING
1005	CORRIDOR	COVE BASE & MASTIC BEIGE		118 LF	<1 LF	4	N/A NON FRIABLE	REPAIR	DELAMINATING

Appendix B

INVENTORY OF ASBESTOS CONTAINING MATERIALS

Summary of Asbestos Containing Materials

SPACE NO.	LOCATION	MATERIAL DESCRIPTION	HA/USA	QUANTITY	AMOUNT DAMAGED	HAZARD RANK	AHERA REASSESSMENT CATEGORY	RESPONSE ACTION	REMARKS
1000BCP	TRANSPORTATION SECRETARY'S OFFICE KITCHEN/STORAGE CEILING PLENUM								NO ACCESS
1000	TRANSPORTATION SECRETARY'S OFFICE	12X12 FLOOR TILE & MASTIC BEIGE		390 SF	0	7	N/A NON FRIABLE	O&M	GOOD CONDITION
		COVE BASE & MASTIC BEIGE		73 LF	0	7	N/A NON FRIABLE	O&M	GOOD CONDITION
		GYPNUM BOARD & COMPOUND		0					CONFIRMED NON ACM (ECI JOB #23546)
		WINDOW GLAZING/CAULKING		80 LF	0	7	N/A NON FRIABLE	O&M	GOOD CONDITION
		FIRE DOOR INSULATION METAL		1 DOOR	0	6	5	O&M	GOOD CONDITION
		2x2 CEILING TILE FISSURE		0					NON ASB JCB#14-28692 TEM
1000CP	TRANSPORTATION SECRETARY'S OFFICE CEILING PLENUM								NO ACCESS
		12X12 FLOOR TILE & MASTIC BEIGE		300 SF	1 TILE	4	N/A NON FRIABLE	REPAIR	CRACKED
		COVE BASE & MASTIC BEIGE		54 LF	0	7	N/A NON FRIABLE	O&M	GOOD CONDITION
		GYPNUM BOARD & COMPOUND		0					CONFIRMED NON ACM (ECI JOB #23546)
		WALL PANEL MASTIC		286 SF	0	7	N/A NON FRIABLE	O&M	GOOD CONDITION
		WINDOW GLAZING/CAULKING		60 LF	0	7	N/A NON FRIABLE	O&M	GOOD CONDITION
		FIRE DOOR INSULATION METAL		1 DOOR	0	6	5	O&M	GOOD CONDITION
		2x2 CEILING TILE FISSURE		0					NON ASB JCB#14-28692 TEM
1000ACP	TRANSPORTATION SUPERVISOR'S OFFICE CEILING PLENUM								NO ACCESS

Summary of Asbestos Containing Materials

SPACE NO.	LOCATION	MATERIAL DESCRIPTION	HA/USA	QUANTITY	AMOUNT DAMAGED	HAZARD RANK	AHERA REASSESSMENT CATEGORY	RESPONSE ACTION	REMARKS
1000A1	TRANSPORTATION SUPERVISOR'S OFFICE BATHROOM VESTIBULE	12X12 FLOOR TILE & MASTIC BEIGE		25 SF	0	7	N/A NON FRIABLE	O&M	GOOD CONDITION
		COVE BASE & MASTIC BEIGE		14 LF	0	7	N/A NON FRIABLE	O&M	GOOD CONDITION
		GYPNUM BOARD & COMPOUND		0					CONFIRMED NON ACM (ECI JOB #23546)
		2X2 CEILING TILE FISSURE		0					NON ASB JCB#14-28692 TEM
1000A1A	TRANSPORTATION SUPERVISOR'S OFFICE BATHROOM	CEILING GYPNUM BOARD & COMPOUND		0					CONFIRMED NON ACM (ECI JOB #23546)
		CERAMIC FLOOR TILE GROUT & GLUE GREEN		25 SF	0	7	N/A NON FRIABLE	O&M	GOOD CONDITION
		CERAMIC WALL BASE GROUT & GLUE BEIGE		19 SF	< 1 LF	4	N/A NON FRIABLE	REPAIR	CRACKED
		GYPNUM BOARD & COMPOUND		0					CONFIRMED NON ACM (ECI JOB #23546)
		FIRE DOOR INSULATION METAL		1 DOOR	0	6	5	O&M	GOOD CONDITION
		CEILING GYPNUM BOARD & COMPOUND		0					CONFIRMED NON ACM (ECI JOB #23546)
		12X12 FLOOR TILE & MASTIC BEIGE		84 SF	0	7	N/A NON FRIABLE	O&M	GOOD CONDITION
		COVE BASE & MASTIC BEIGE		35 LF	0	7	N/A NON FRIABLE	O&M	GOOD CONDITION
1000B	TRANSPORTATION SECRETARY'S OFFICE KITCHEN/STORAGE OFFICE KITCHEN/STORAGE	CONCRETE BLOCK & MORTAR		0					CONFIRMED NON ACM (ECI JOB #22733)
		GYPNUM BOARD & COMPOUND		0					CONFIRMED NON ACM (ECI JOB #23546)
		FIRE DOOR INSULATION METAL		1 DOOR	0	6	5	O&M	GOOD CONDITION
		METAL SINK UNDERCOATING BLACK		1 UNIT	0	7	N/A NON FRIABLE	O&M	GOOD CONDITION
		2X2 CEILING TILE FISSURE		0					NON ASB JCB#14-28692 TEM
		CEILING GYPNUM BOARD & COMPOUND		0					CONFIRMED NON ACM (ECI JOB #23546)

Summary of Asbestos Containing Materials

SPACE NO.	LOCATION	MATERIAL DESCRIPTION	HA/USA	QUANTITY	AMOUNT DAMAGED	HAZARD RANK	AHERA REASSESSMENT CATEGORY	RESPONSE ACTION	REMARKS
1001	WOMEN'S BATHROOM	CERAMIC FLOOR TILE GROUT & GLUE BEIGE		152 SF	0	7	N/A NON FRIABLE	O&M	GOOD CONDITION
		CERAMIC WALL BASE GROUT & GLUE WHITE		47 LF	0	7	N/A NON FRIABLE	O&M	GOOD CONDITION
		CERAMIC WALL TILE GROUT & GLUE BEIGE		90 SF	0	7	N/A NON FRIABLE	O&M	GOOD CONDITION
		CONCRETE BLOCK & MORTAR		0					CONFIRMED NON ACM (ECI JOB #22733)
		MIRROR MASTIC		6 SF	0	7	N/A NON FRIABLE	O&M	GOOD CONDITION
		GYPNUM BOARD & COMPOUND		0					CONFIRMED NON ACM (ECI JOB #23546)
		FIRE DOOR INSULATION METAL		1 DOOR	0	6	5	O&M	GOOD CONDITION
		2X2 CEILING TILE FISSURE		0					NON ASB JCB#14-28692 TEM
1001CP	WOMEN'S BATHROOM CEILING PLENUM								NO ACCESS
1002	CUSTODIAL CLOSET	CERAMIC FLOOR TILE GROUT & GLUE		25 SF	0	7	N/A NON FRIABLE	O&M	CONCRETE FLOORING OBSERVED
		CONCRETE BLOCK & MORTAR		0					CONFIRMED NON ACM (ECI JOB #22733)
		GYPNUM BOARD & COMPOUND		0					CONFIRMED NON ACM (ECI JOB #23546)
		FIRE DOOR INSULATION METAL		1 DOOR	0	6	5	O&M	GOOD CONDITION
		CEILING GYPNUM BOARD & COMPOUND		0					CONFIRMED NON ACM (ECI JOB #23546)

Summary of Asbestos Containing Materials

SPACE NO.	LOCATION	MATERIAL DESCRIPTION	HA/USA	QUANTITY	AMOUNT DAMAGED	HAZARD RANK	AHERA REASSESSMENT CATEGORY	RESPONSE ACTION	REMARKS
1003	MEN'S BATHROOM	CERAMIC FLOOR TILE GROUT & GLUE BEIGE		152 SF	0	7	N/A NON FRIABLE	O&M	GOOD CONDITION
		CERAMIC WALL BASE GROUT & GLUE WHITE		47 LF	0	7	N/A NON FRIABLE	O&M	GOOD CONDITION
		CERAMIC WALL TILE GROUT & GLUE BEIGE		90 SF	0	7	N/A NON FRIABLE	O&M	GOOD CONDITION
		CONCRETE BLOCK & MORTAR		0					CONFIRMED NON ACM (ECI JOB #22733)
		MIRROR MASTIC		6 SF	0	7	N/A NON FRIABLE	O&M	GOOD CONDITION
		GYPSUM BOARD & COMPOUND		0					CONFIRMED NON ACM (ECI JOB #23546)
		FIRE DOOR INSULATION METAL		1 DOOR	0	6	5	O&M	GOOD CONDITION
		2x2 CEILING TILE FISSURE		0					NON ASB JCB#14- 28692 TEM
1003CP	MEN'S BATHROOM CEILING PLENUM	NONE OBSERVED							NONE OBSERVED
1004	DRIVERS LOUNGE	12X12 FLOOR TILE & MASTIC BEIGE		936 SF	0	7	N/A NON FRIABLE	O&M	GOOD CONDITION
		COVE BASE & MASTIC BEIGE		111 LF	0	7	N/A NON FRIABLE	O&M	GOOD CONDITION
		CONCRETE BLOCK & MORTAR		0					CONFIRMED NON ACM (ECI JOB #22733)
		GYPSUM BOARD & COMPOUND		0					CONFIRMED NON ACM (ECI JOB #23546)
		WINDOW GLAZING/CAULKING		60 LF	0	7	N/A NON FRIABLE	O&M	GOOD CONDITION
		FIRE DOOR INSULATION METAL		2 DOORS	0	6	5	O&M	GOOD CONDITION
		2x2 CEILING TILE		0					NON ASB JCB#14- 28692 TEM
1004CP	DRIVERS LOUNGE CEILING PLENUM								NO ACCESS

Summary of Asbestos Containing Materials

SPACE NO.	LOCATION	MATERIAL DESCRIPTION	HA/USA	QUANTITY	AMOUNT DAMAGED	HAZARD RANK	AHERA REASSESSMENT CATEGORY	RESPONSE ACTION	REMARKS
1004A	DRIVERS LOUNGE STORAGE CLOSET	12X12 FLOOR TILE & MASTIC BEIGE		100 SF	0	7	N/A NON FRIABLE	O&M	GOOD CONDITION
		COVE BASE & MASTIC BEIGE		37 LF	4 LF	4	N/A NON FRIABLE	REPAIR	MISSING-LIMITED VISIBILITY
		GYPNUM BOARD & COMPOUND		0					CONFIRMED NON ACM (ECI JOB #23546)
		FIRE DOOR INSULATION METAL		1 DOOR	0	6	5	O&M	GOOD CONDITION
		2X2 CEILING TILE FISSURE		0					NON ASB JCB#14-28692 TEM
		CEILING GYPNUM BOARD & COMPOUND		0					CONFIRMED NON ACM (ECI JOB #23546)
1004ACP	DRIVERS LOUNGE STORAGE CLOSET CEILING PLENUM								NO ACCESS
1004B	DISPATCHER OFFICE	12X12 FLOOR TILE & MASTIC BEIGE		576 SF	1 TILE	4	N/A NON FRIABLE	REPAIR	CHIPPED
		COVE BASE & MASTIC BEIGE		91 LF	<1 LF	4	N/A NON FRIABLE	REPAIR	DELAMINATING
		GYPNUM BOARD & COMPOUND		0					CONFIRMED NON ACM (ECI JOB #23546)
		WALL PANEL MASTIC		390 SF	0	7	N/A NON FRIABLE	O&M	GOOD CONDITION
		WINDOW GLAZING/CAULKING		100 LF	0	7	N/A NON FRIABLE	O&M	GOOD CONDITION
		FIRE DOOR INSULATION METAL		1 DOOR	0	6	5	O&M	GOOD CONDITION
		2X2 CEILING TILE FISSURE		0					NON ASB JCB#14-28692 TEM
1004BCP	DISPATCHER OFFICE CEILING PLENUM								NO ACCESS

Summary of Asbestos Containing Materials

SPACE NO.	LOCATION	MATERIAL DESCRIPTION	HA/USA	QUANTITY	AMOUNT DAMAGED	HAZARD RANK	AHERA REASSESSMENT CATEGORY	RESPONSE ACTION	REMARKS
1004B1	DISPATCH SERVER CLOSET	12X12 FLOOR TILE & MASTIC BEIGE		48 SF	0	7	N/A NON FRIABLE	O&M	GOOD CONDITION
		COVE BASE & MASTIC BEIGE		32 LF	0	7	N/A NON FRIABLE	O&M	GOOD CONDITION
		GYPSUM BOARD & COMPOUND		0					CONFIRMED NON ACM (ECI JOB #23546)
		FIRE DOOR INSULATION METAL		1 DOOR	0	6	5	O&M	GOOD CONDITION
1004B1 CP	DISPATCH SERVER CLOSET CEILING PLENUM	2x2 CEILING TILE FISSURE		0					NON ASB JCB#14-28692 TEM
									NO ACCESS
		12X12 FLOOR TILE & MASTIC BEIGE		30 SF	0	7	N/A NON FRIABLE	O&M	GOOD CONDITION
		COVE BASE & MASTIC BEIGE		22 LF	0	7	N/A NON FRIABLE	O&M	GOOD CONDITION
1004B2	DISPATCHER OFFICE STORAGE CLOSET	GYPSUM BOARD & COMPOUND		0					CONFIRMED NON ACM (ECI JOB #23546)
		WINDOW GLAZING/CAULKING		20 LF	0	7	N/A NON FRIABLE	O&M	GOOD CONDITION
		FIRE DOOR INSULATION WOOD		1 DOOR	0	6	5	O&M	GOOD CONDITION
		FIRE DOOR INSULATION METAL		1 DOOR	0	6	5	O&M	GOOD CONDITION
1004B2CP	DISPATCHER OFFICE STORAGE CLOSET CEILING PLENUM	2x2 CEILING TILE FISSURE		0					NON ASB JCB#14-28692 TEM
									NO ACCESS

Summary of Asbestos Containing Materials

SPACE NO.	LOCATION	MATERIAL DESCRIPTION	HA/USA	QUANTITY	AMOUNT DAMAGED	HAZARD RANK	AHERA REASSESSMENT CATEGORY	RESPONSE ACTION	REMARKS
1005	CORRIDOR	12X12 FLOOR TILE & MASTIC BEIGE		270 SF	0	7	N/A NON FRIABLE	O&M	GOOD CONDITION
		COVE BASE & MASTIC BEIGE		118 LF	<1 LF	4	N/A NON FRIABLE	REPAIR	DELAMINATING
		GYPSON BOARD & COMPOUND		0					CONFIRMED NON ACM (ECI JOB #23546)
		WINDOW GLAZING/CAULKING		36 LF	0	7	N/A NON FRIABLE	O&M	GOOD CONDITION
		FIRE DOOR INSULATION METAL		1 DOOR	0	6	5	O&M	GOOD CONDITION
1006	FRONT GARAGE BAY (SHOP)	CEILING GYPSON BOARD & COMPOUND		0					CONFIRMED NON ACM (ECI JOB #23546)
		CONCRETE BLOCK & MORTAR		0					CONFIRMED NON ACM (ECI JOB #22733)
		GYPSON BOARD & COMPOUND		0					CONFIRMED NON ACM (ECI JOB #23546)
		WALL PANEL MASTIC		27 SF	0	7	N/A NON FRIABLE	O&M	GOOD CONDITION
		FIRE DOOR INSULATION METAL		3 DOORS	0	6	5	O&M	GOOD CONDITION
1006A	FRONT GARAGE BAY PARTS ROOM	CONCRETE BLOCK & MORTAR		0					CONFIRMED NON ACM (ECI JOB #22733)
		WALL PANEL MASTIC		135 SF	0	7	N/A NON FRIABLE	O&M	GOOD CONDITION
		FIRE DOOR INSULATION METAL		1 DOOR	0	6	5	O&M	GOOD CONDITION
		12X12 FLOOR TILE & MASTIC BEIGE		140 SF	0	7	N/A NON FRIABLE	O&M	GOOD CONDITION
		COVE BASE & MASTIC BEIGE		48 LF	0	7	N/A NON FRIABLE	O&M	GOOD CONDITION
1006B	FRONT GARAGE BAY LOUNGE	CONCRETE BLOCK & MORTAR		0					CONFIRMED NON ACM (ECI JOB #22733)
		CEMENTITIOUS WALL PLASTER		60 SF	0	7	N/A NON FRIABLE	O&M	GOOD CONDITION
		GYPSON BOARD & COMPOUND		0					CONFIRMED NON ACM (ECI JOB #23546)
		FIRE DOOR INSULATION METAL		1 DOOR	0	6	5	O&M	GOOD CONDITION
		CEILING GYPSON BOARD & COMPOUND		0					CONFIRMED NON ACM (ECI JOB #23546)

Summary of Asbestos Containing Materials

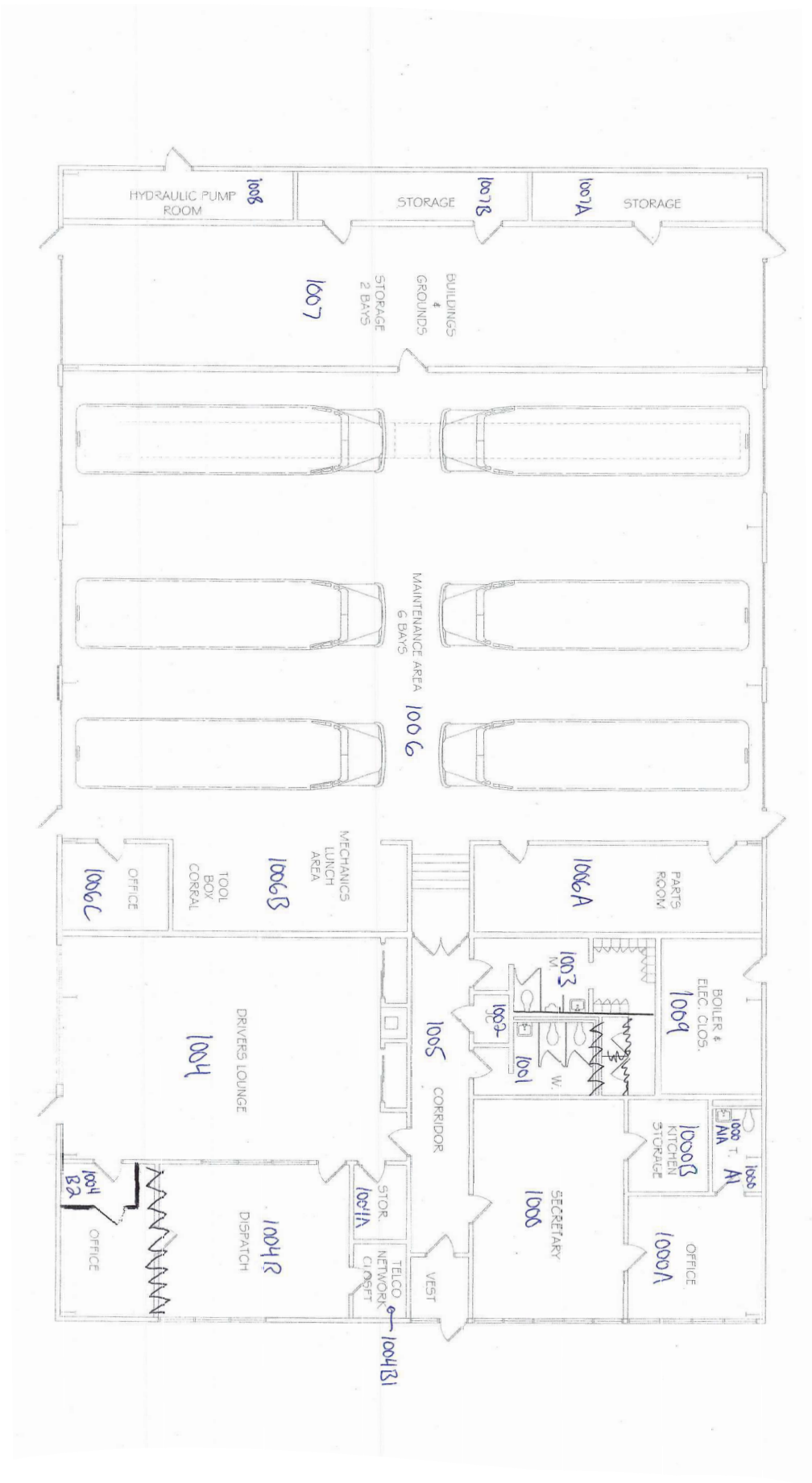
SPACE NO.	LOCATION	MATERIAL DESCRIPTION	HA/USA	QUANTITY	AMOUNT DAMAGED	HAZARD RANK	AHERA REASSESSMENT CATEGORY	RESPONSE ACTION	REMARKS
1006C	FRONT GARAGE BAY OFFICE	12X12 FLOOR TILE & MASTIC BEIGE		120 SF	0	7	N/A NON FRIABLE	O&M	GOOD CONDITION
		COVE BASE & MASTIC BEIGE		44 LF	0	7	N/A NON FRIABLE	O&M	GOOD CONDITION
		CONCRETE BLOCK & MORTAR		0					CONFIRMED NON ACM (ECI JOB #22733)
		CEMENTITIOUS WALL PLASTER		48 SF	0	7	N/A NON FRIABLE	O&M	GOOD CONDITION
		GYPSUM BOARD & COMPOUND		0					CONFIRMED NON ACM (ECI JOB #23546)
		WALL PANEL MASTIC		56 SF	0	7	N/A NON FRIABLE	O&M	GOOD CONDITION
		FIRE DOOR INSULATION METAL		1 DOOR	0	6	5	O&M	GOOD CONDITION
		CEILING GYPSUM BOARD & COMPOUND		0					CONFIRMED NON ACM (ECI JOB #23546)
		CONCRETE BLOCK & MORTAR		0					CONFIRMED NON ACM (ECI JOB #22733)
		WALL PANEL MASTIC		27 SF	0	7	N/A NON FRIABLE	O&M	GOOD CONDITION
1007	BACK GARAGE BAY	FIRE DOOR INSULATION METAL		2 DOORS	0	6	5	O&M	GOOD CONDITION
1007A	BACK GARAGE BAY STORAGE 1 COMPRESSOR ROOM	CONCRETE BLOCK & MORTAR		0					CONFIRMED NON ACM (ECI JOB #22733)
		WALL PANEL MASTIC		150 SF	0	7	N/A NON FRIABLE	O&M	GOOD CONDITION
		FIRE DOOR INSULATION METAL		1 DOOR	0	6	5	O&M	GOOD CONDITION
1007B	BACK GARAGE BAY STORAGE 2	CONCRETE BLOCK & MORTAR		0					CONFIRMED NON ACM (ECI JOB #22733)
		WALL PANEL MASTIC		150 SF	0	7	N/A NON FRIABLE	O&M	GOOD CONDITION
		FIRE DOOR INSULATION METAL		2 DOORS	0	6	5	O&M	GOOD CONDITION
1008	OIL PUMP ROOM	CONCRETE BLOCK & MORTAR		0					CONFIRMED NON ACM (ECI JOB #22733)
		FIRE DOOR INSULATION METAL		1 DOOR	0	6	5	O&M	GOOD CONDITION

Summary of Asbestos Containing Materials

SPACE No.	LOCATION	MATERIAL DESCRIPTION	HA/USA	QUANTITY	AMOUNT DAMAGED	HAZARD RANK	AHERA REASSESSMENT CATEGORY	RESPONSE ACTION	REMARKS
1009	BOILER ROOM	CONCRETE BLOCK & MORTAR		0					CONFIRMED NON ACM (ECI JOB #22733)
		FIRE DOOR INSULATION		1 DOOR	0	6	5	O&M	GOOD CONDITION
		METAL							

Appendix C

DRAWINGS



 ENVIROSCIENCE CONSULTANTS 2150 SMITH TOWN AVENUE FORT MONROE, VA 22031 (703) 580-3191 FAX 580-3195 www.envirohealth.org	ENVIRONMENTAL CONSULTANTS 2150 SMITH TOWN AVENUE FORT MONROE, VA 22031 (703) 580-3191 FAX 580-3195 www.envirohealth.org	PROJECT SIX MONTH AHIERA SURVEILLANCE TRANSPORTATION GARAGE FLOOR PLAN CLIENT HALF HOLLOW HILLS CENTRAL SCHOOL DISTRICT	 PROJECT #: 28546 COMMENTS: None	NOT TO SCALE Date: 07/14/2023 By: Robert Cardona DRAWING 1 of 1
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Appendix D

CERTIFICATIONS

WE ARE YOUR DOL

 **NEW YORK STATE** Department of Labor

DIVISION OF SAFETY & HEALTH LICENSE AND CERTIFICATE UNIT, STATE OFFICE CAMPUS, BLDG. 12, ALBANY, NY 12226

ASBESTOS HANDLING LICENSE

Enviroscience Consultants, LLC
2150 Smithtown Avenue, Ronkonkoma, NY, 11779

License Number: 28733
License Class: RESTRICTED
Date of Issue: 11/04/2022
Expiration Date: 11/30/2023
Duly Authorized Representative: Bartley Gallagher

This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.


Amy Phillips, Director
For the Commissioner of Labor

EXCELSIOR

Appendix E

NOTICE TO SHORT TERM WORKERS

NOTICE TO SHORT TERM WORKERS

All workers entering the Transportation Garage must sign in, thereby acknowledging the presence and locations of asbestos containing building materials in the building. No work will be allowed in the areas listed without prior approval from the AHERA Designated Person for the Half Hollow Hills School District.

Sign in sheets will be picked up at the time of the Six Month AHERA Surveillance and will be placed in the buildings Asbestos Management Plan.

Asbestos containing materials and their locations at the Transportation Garage are listed in the AHERA Management Plan, which is available for review, upon request.

[illegible]

Appendix F
BULK SAMPLE RESULTS

ELAP # 11681; NVLAP Lab Code 200531-0

ASBESTOS BULK SAMPLE RESULTS

CLIENT:	Half Hollow Hills CSD 525 Half Hollow Road, Dix Hills, NY 11746		SAMPLE DATE:	6/9/2023	
PROJECT NAME:	AHERA Six-month Surveillance - May 2023		DATE RECEIVED:	6/12/2023	
JOB #:	23546	SAMPLER:	Pamela Chadderton		
PAGE #:	1 of 2	CUSTODY #:	35303		
AREA:	Transportation Garage - Ceiling and Wall Drywall & Joint Compound				

Lab ID	Sample #	Description	Color	Location	Total Asbestos Result	% Asbestos-type	% Non-asbestos Fibers-type	% Matrix-type
99556	CDW1	Ceiling Drywall	White	(AHERA #1006C)	None Detected	15.0% cellulose 5.0% fiberglass	80.0% plaster	
99557	CDW2	Ceiling Drywall	White	(AHERA #1001A1)	None Detected	15.0% cellulose 5.0% fiberglass	80.0% plaster	
99558	CJC3	Ceiling Joint Compound	White	(AHERA #1006C)	None Detected	None Detected	56.2% organics and carbonates 43.8% silicates and opaques	
99559	CJC4	Ceiling Joint Compound	White	(AHERA #1001A1)	None Detected	None Detected	54.7% organics and carbonates 45.3% silicates and opaques	
99560	DW5	Drywall	White	(AHERA #1006C)	None Detected	15.0% cellulose 5.0% fiberglass	80.0% plaster	
99561	DW6	Drywall	White	Transportation Secretary's Office (AHERA #1000)	None Detected	15.0% cellulose 5.0% fiberglass	80.0% plaster	

Method: EPA 600/M4-82/20, 600/R-93/116, NYS DOH ELAP Item 198.1, 198.4, 198.6, 198.8.

ACM: Asbestos Containing Materials contain more than 1%.

None Detected - No asbestos found in samples using polarized light microscopy (PLM). Trace - Asbestos found is 1% or less, not considered ACM.

None Detected by TEM - No asbestos found in samples using transmission electron microscopy (TEM) and polarized light microscopy (PLM) was found to be negative.

Negative by Weight - After matrix reduction, the remainder is less than 1% and, therefore, cannot fulfill the definition of asbestos containing material.

Inconclusive - No asbestos found in non-frable organically bound samples using polarized light microscopy (PLM).

Method ELAP 198.6 does not remove vermiculite and may underestimate the level of asbestos present in a sample containing greater than 10% vermiculite. Samples of Surface Material that contain Vermiculite are analyzed by ELAP 198.8 for conclusive result.

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ANALYZED BY:		PLM DATE:	6/13/2023	ANALYZED BY:		TEM DATE:	
DIRECTOR:		DATE:	6/15/2023	REVISION #:	0	REVISION DATE:	6/15/2023

ELAP # 11681; NVLAP Lab Code 200531-0

ASBESTOS BULK SAMPLE RESULTS

CLIENT:	Half Hollow Hills CSD 525 Half Hollow Road, Dix Hills, NY 11746			SAMPLE DATE:	6/9/2023		
PROJECT NAME:	AHERA Six-month Surveillance - May 2023			DATE RECEIVED:	6/12/2023		
JOB #:	23546			AREA:	Transportation Garage - Ceiling and Wall Drywall & Joint Compound		
PAGE #:	2 of 2			SAMPLER:	Pamela Chadderton		
				CUSTODY #:	35303		

Lab ID	Sample #	Description	Color	Location	Total Asbestos Result	% Asbestos-type	% Non-asbestos Fibers-type	% Matrix-type
99562	JC7	Joint Compound	White	(AHERA #1006C)	None Detected		None Detected	86.3% organics and carbonates 13.7% silicates and opaques
99563	JC8	Joint Compound	White	Transportation Secretary's Office (AHERA #1000)	None Detected		None Detected	86.2% organics and carbonates 13.8% silicates and opaques

Method: EPA 600/M4-82/20, 600/R-93/116, NYS DOH ELAP Item 198.1, 198.4, 198.6, 198.8.

ACM: Asbestos Containing Materials contain more than 1%.

None Detected - No asbestos found in samples using polarized light microscopy (PLM). Trace - Asbestos found is 1% or less, not considered ACM.

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Negative by Weight - After matrix reduction, the remainder is less than 1% and, therefore, cannot fulfill the definition of asbestos containing material.

Inconclusive - No asbestos found in non-friable organically bound samples using polarized light microscopy (PLM).

Method ELAP 198.6 does not remove vermiculite and may underestimate the level of asbestos present in a sample containing greater than 10% vermiculite. Samples of Surface Material that contain Vermiculite are analyzed by ELAP 198.8 for conclusive result.

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ANALYZED BY:		PLM DATE:	6/13/2023	ANALYZED BY:		TEM DATE:	
DIRECTOR:		DATE:	6/15/2023	REVISION #:	0	REVISION DATE:	6/15/2023