

ASBESTOS, LEAD, AND MOLD ASSESSMENT
OF THE OLD DIESEL PLANT LOCATED AT
1551 BARROW STREET, HOUMA, LA 70360

FOR TERREBONE PARISH CONSOLIDATED GOVERNMENT

May 30, 2023 TES Job #: 1658-23284

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1. EXECUTIVE SUMMARY:

Technical Environmental Services, Inc. performed a limited asbestos bulk sampling, limited lead-based paint chip sampling, and limited mold assessment in areas of concern, which were identified by the client's representative, Royal Engineering, at the Old Diesel Plant located at 1551 Barrow Street, Houma, LA. During the survey, fifty-one asbestos bulk samples of suspect materials and forty-four paint chip samples were collected from various homogenous materials. Additionally, a total of eight mold air samples, six interior and two outside samples for comparison, and three mold surface samples were collected from areas due to concern for indoor air quality and suspected mold growth.

Fifteen of the fifty-one asbestos bulk samples showed detections of asbestos in concentrations exceeding the regulatory limit of 1%. The asbestos concentrations ranged from 3% to 6% Chrysotile and 4% Amosite. Forty-three of the forty-four paint chip samples analyzed during this survey contained a detectable concentration of lead in the paint. The lead concentrations ranged from <0.0080 to 26 % by weight. Four of the six interior mold air samples and each of the three mold surface samples analyzed during this survey were not acceptable based on the clearance criteria. It was determined that unacceptable concentrations of airborne and surface mold were present in the Interior Restroom, Training Room, Upstairs Storage, Upstairs Valve Room, and the Downstairs Storage.

The client should consider the development of an asbestos and mold abatement protocol, as well as a lead worker protection plan, prior to renovation or demolition activities. The client should also consider air monitoring to assess the airborne level of asbestos and lead during renovation activities to ensure controls are sufficient while disturbing the lead containing paint and asbestos containing materials. Clearance air monitoring for asbestos and mold should also be considered following abatement of all contaminated materials. All painted components should be tested via toxicity characteristic leaching procedure for lead to determine proper disposal methods, and all asbestos containing materials shall be disposed of per state and federal regulations.

2. PURPOSE AND SCOPE OF SURVEY:

At the request of Mr. Jason Broussard of Royal Engineers & Consultants (Owner's Representative), Technical Environmental Services, Inc. (TES) performed bulk sampling to determine concentrations of asbestos and lead in various homogenous components at client specific locations within the Old Diesel Plant located in Terrebonne Parish, Louisiana. In addition to asbestos and lead sampling, TES performed mold sampling within designated locations to determine the indoor air quality and presence of mold. This sampling was performed in preparation for demolition activities.

3. SITE BACKGROUND:

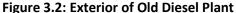
Royal Engineers & Consultants is a Louisiana based engineering and consulting firm specializing in Civil Engineering, Coastal Services, Construction Management, Project Management, and Disaster Recovery Services. Royal Engineers & Consultants was contracted with the Terrebonne Parish Consolidated Government for the preparation and oversight of the mold, asbestos, and lead sampling services of the Old Diesel Plant located in Houma, Louisiana. Royal Engineers & Consultants is the Owner's

Representative. Terrebonne Parish Consolidated Government is the Owner.

The Old Diesel Plant is an approximately 25,000 square feet structure on a concrete slab with brick exterior walls and a peaked asphalt roof. The interior is comprised of one office/training area with an interior restroom and several storage rooms. The training area is made up of 4' x 2' ceiling tiles and FRP panel walls with vinyl cove bases. The upstairs storage room is made up of 1' x 1' ceiling tile and gypsum walls with vinyl cove bases. The Old Diesel Plant building sustained major structural damage following Hurricane Ida in 2021. Exterior photos of the building and figures including the sample locations and asbestos homogenous areas are detailed in the following figures. Additional information can be viewed in the field notes in **Attachment A.**



Figure 3.1: Exterior of Old Diesel Plant





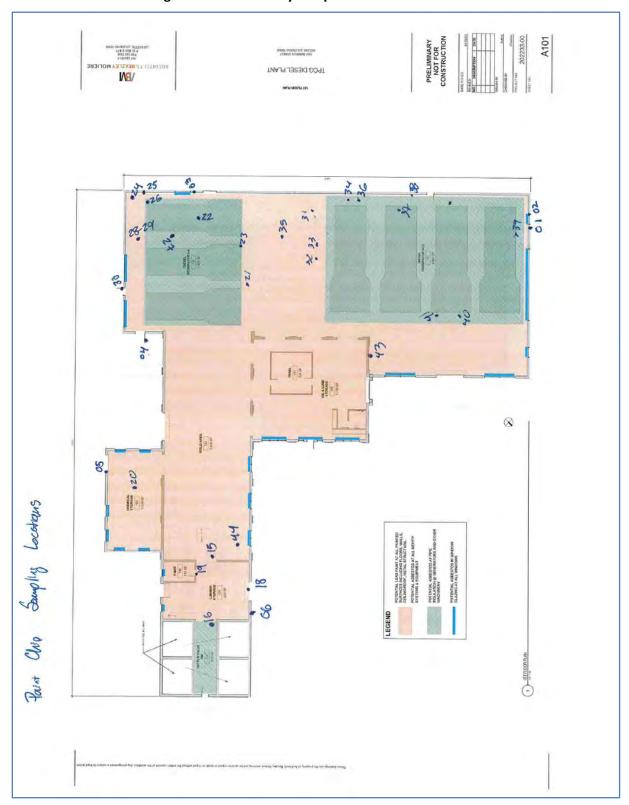


Figure 3.3: Lead Survey Sample Locations – First Floor

ARCHITECTS BEAZLEY MOLIERE TPCG DIESEL PLANT MEV 240 8

Figure 3.4: Lead Survey Sample Locations – Second Floor

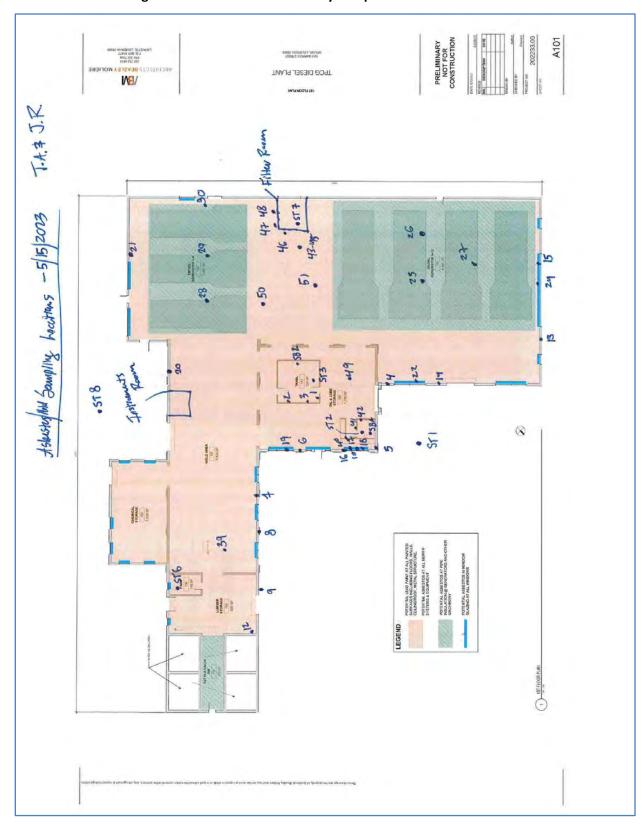


Figure 3.5: ACM and Mold Survey Sample Locations – First Floor

ARCHITECTS BEAZLEY MOLIERE TPCG DIESEL PLANT NB/ ACCOMPANY ACCOMP 8

Figure 3.6: ACM and Mold Survey Sample Locations – Second Floor

4. SURVEY METHODOLOGY:

Mr. Thomas L. Arnold Jr., a TES Louisiana Department of Environmental Quality (LDEQ) accredited asbestos inspector, lead inspector, and lead risk assessor performed the onsite surveys on April 14-15, 2023. Mr. Arnold's asbestos, lead inspector, and lead risk assessor certificates can be viewed in **Attachment B**. The locations and suspect materials that were sampled for asbestos and lead during the survey were selected because they will be disturbed by the planned renovation/demolition activities. The locations and suspect materials that were sampled for mold during the survey were selected because they will need to be abated during planned renovation/demolition activities. During the survey, bulk material samples were collected for asbestos and lead concentration analysis. Air and surface samples were also collected for mold analysis. Photographs of the homogenous materials and sample locations were collected. These photographs can be viewed in **Attachment C**.

4.1. Asbestos:

The asbestos sampling was completed by systematically identifying homogenous suspect asbestos containing materials (ACM), collecting the sample, placing the material into a plastic bag, recording the material on a field form, and collecting sufficient samples based on the LDEQ requirements. Following the onsite surveys, a chain of custody was completed, and the samples were shipped to CA Labs, a National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory, for analysis via Polarized Light Microscopy (PLM).

4.2. Lead:

Bulk samples of paint were collected by scraping at least 1 gram of paint from each component sampled, ensuring that all layers of paint on each component were sampled evenly. The paint chip samples were individually placed into plastic bags and sealed. Following the onsite surveys, a chain of custody was completed, and the samples were shipped to EMSL Analytical Inc., a National Lead Laboratory Accreditation Program (NLLAP) accredited lab, for lead analysis via SW846-7000B method.

4.3. Mold:

Air samples for mold were collected using a Zefon Bio-Pump and spore trap Air-O-Cell cassettes. Each air sample was operated at 15 liters per minute for 10 minutes. Through this sampling method, airborne fungal spores are impacted on an adhesive-coated transparent surface within the cassette (spore trapping) and analyzed under a microscope. Non-cultured analysis includes spores that are viable and those that are non-viable (i.e., unable to grow on a culture medium). Spore trapping allows quick and accurate counting of total spores and Genus level identification of some spores. This method also gives an indication of the total allergen potential of the air contaminants, because both viable and non-viable spores are allergenic.

The surface sample was collected by using a sterile tape lift. An area of approximately 1 square centimeter (cm²) was sampled for each tape lift. The tape was removed from the protective case and detached from the paper backing then adhered to the sampling surface. Once complete with sampling, the tape was placed in its original container. Tape lift samples were collected after the air samples as to not cause dispersion of mold spores. The tape lift samples were analyzed using *Qualitative Spore Count Direct Exam*.

All media was labeled, a chain of custody completed, and mold samples were shipped to Eurofins J3 Resources, Inc., an American Industrial Hygiene Association (AIHA) accredited laboratory for expedited analysis.

5. EXPOSURE LIMITS & HEALTH EFFECTS:

5.1 Asbestos:

<u>Asbestos</u> is a naturally occurring mineral fiber that has been historically used for its heat and corrosion resistance properties. Some of the uses of asbestos include pipe insulation, floor tiles, building materials, fireproofing materials, brake pads, cement pipe, gaskets, textiles, and many more. There are six different known types of asbestos, and the most commonly used types are Chrysotile ("White Asbestos"), Amosite ("Brown Asbestos"), and Crocidolite ("Blue Asbestos"). The most common way for asbestos fibers to enter the body is through inhalation. Inhaled fibers may become trapped in the mucous membranes of the nose and throat, where they can then be removed, but some may pass deep into the lung tissue, which is where they can cause health problems. The three primary diseases associated with exposure to asbestos are Asbestosis, Lung Cancer, and Mesothelioma.

Asbestosis- Asbestosis is a serious chronic, progressive disease that can eventually lead to disability or death in people exposed to high amounts of asbestos over a long period. Asbestos fibers cause the lung tissues to scar; when the scarring spreads, it becomes harder to breathe. Symptoms include shortness of breath, a dry crackling sound in the lungs while inhaling, coughing, and chest pain. The typical latency period is approximately 5-30 years. This condition is permanent and there is no effective treatment. Lung cancer- Lung cancer causes the largest number of deaths related to asbestos exposure. The incidence of lung cancer in people who are directly involved in the mining, milling, and manufacturing industries, and use asbestos and its products is much higher than in the general population. The most common symptoms of lung cancer are coughing and a change in breathing. Other symptoms include shortness of breath, persistent chest pains, hoarseness, and anemia. The risk greatly increases in workers who smoke and have been exposed to asbestos. Mesothelioma- Mesothelioma is a rare form of cancer that most often occurs in the thin membrane lining of the lungs (pleura), chest, abdomen (peritoneum), and (rarely) heart. About 200 cases are diagnosed each year in the U.S., and virtually all cases are linked with asbestos exposure. Approximately two percent of all miners and textile workers who work with asbestos contract mesothelioma. This cancer is very invasive and spreads quickly, eventually crushing the lungs so that the patient cannot breathe. It is painful and always fatal. It can be caused by very low exposure and is not directly related to the amount inhaled. This cancer may take 30-40 years to develop (1).

Occupational Exposure Limits (OELs) for applicable constituents of concern are set by regulatory agencies, such as the Occupational Safety and Health Administration (OSHA). OSHA has established a regulatory permissible exposure limit (PEL) of 0.1 fibers per cubic centimeter (f/cc), and a regulatory excursion limit of 1.0 f/cc for asbestos in 29 CFR 21910.1001. The PEL applies to full shift samples, and the excursion limit applies to thirty-minute samples.

Footnotes:

(1) https://www.nhlbi.nih.gov/health/health-topics/topics/asb

5.2 Lead

<u>Lead</u> is a naturally occurring bluish-gray metal found in small amounts in the earth's crust. The effects of lead are the same whether it enters the body through breathing or swallowing. Lead can affect almost every organ and system in the body. The main target for lead toxicity is the nervous system, both in adults and children. Long-term exposure of lead in adults can result in decreased performance in some tests that measure functions of the nervous system. It may also cause weakness in fingers, wrists, or ankles. Lead exposure also causes small increases in blood pressure, particularly in middle-aged and older people, and can cause anemia. Exposure to high lead levels can severely damage the brain and kidneys in adults or children and ultimately cause death. In pregnant women, high levels of exposure to lead may cause miscarriage. High level exposure in men can damage the organs responsible for sperm production. We have no conclusive proof that lead causes cancer in humans⁽¹⁾.

The Occupational Health and Safety Administration (OSHA) does not set a safe limit of lead content in paint. Rather, OSHA requires lead air sampling be administered on personnel disturbing the paint, and the time weighted average results from the airborne exposure assessments are compared to the OSHA action level (30 $\mu g/m^3$), and the OSHA eight-hour permissible exposure limit (50 $\mu g/m^3$). The OSHA ten-hour permissible exposure limit (40 $\mu g/m^3$). The OSHA PEL is a function of the work shift. If an employee works a shift longer than eight-hours, then the OSHA PEL can be calculated using the following formula: Allowable Employee Exposure in ($\mu g/m^3$) = 400 divided by hours worked in the shift.

Footnotes:

(1) https://www.atsdr.cdc.gov

5.3 Mold

Currently, there are no regulatory standards that can be used in the interpretation of laboratory analytical findings for fungi and other particulates. Air samples tend to be quite variable and are only considered a snapshot-type indication of what was in the air at the time the sample was collected. The measured fungi concentrations in the indoor air were evaluated by comparing the analytical results of the indoor air samples to that of the outdoor air sample results. TES uses the following mold in air criteria to determine if air in a building is indicative of a well-maintained building:

- Total mold concentrations of each sample collected inside the building are less than the highest control sample collected. A difference of 40 spores per cubic meter (sp/m³) of air or less is considered negligible. 40 sp/m³ is roughly equivalent to 2-5 raw count spores.
- Concentrations of all individual mold types and species inside the building must not be greater than the highest control sample collected; if the control sample(s) results for Ascospores, Basidiospores, Cladosporium, or Penicillium / Aspergillus type molds are less than the medium typical concentration for that month in the state in which the samples were collected (if this information is provided the laboratory), use the medium concentration value. Use the highest individual control sample result for comparison purposes. A difference of 40 spores per cubic meter (sp/m³) of air or less is considered negligible. Stachybotrys type molds must not have any measurable concentrations detected.

Similar to air sample exposure levels, there is currently no regulatory guidance for surface sampling of mold. The tape lift analysis via Qualitative Spore Count Direct Exam indicates which mold types at the Genus level were present in the sample, along with a growth rating from <1+ to 4+ with 4+ indicating the highest mold growth present. The laboratory provides a description of what each growth rating entails. This description along with the growth ratings are detailed in the following table.

Table 1: Qualitative Spore Count Growth Rating Table

Growth Rating	in determining the amount of growth present in the same evidence of heavy growth, then it will receive a rating	
	Swab/Tape/Dust/Wipe sample	Bulk Sample
< 1+ (Very Light Growth)	Evidence of very light growth observed on the sample as indicated by spores of one type seen with underlying mycelial and/or with their sporulating structures found in less than 10% of the microscopic fields examined.	Areas of very light growth detected by the presence of spores of one type seen with underlying mycelial and/ or with their sporulating structures in the bulk sample.
1+ (Light Growth)	Evidence of light growth observed on the sample as indicated by spores of one type seen with underlying mycelial and/or with their sporulating structures found in 10 to 25% of the microscopic fields examined.	Areas of light growth detected by the presence of spores of one type seen with underlying mycelial and/ or with their sporulating structures in the bulk sample.
2+ (Moderate Growth)	Evidence of moderate growth observed on the sample as indicated by spores of one type seen with underlying mycelial and/or with their sporulating structures found in 26 to 50% of the microscopic fields examined.	Areas of moderate growth detected by the presence of spores of one type seen with underlying mycelial and/ or with their sporulating structures in the bulk sample.
3+ (Heavy Growth)	Evidence of heavy growth observed on the sample as indicated by spores of one type seen with underlying mycelial and/or with their sporulating structures found in 51 to 75% of the microscopic fields examined.	Areas of heavy growth detected by the presence of spores of one type seen with underlying mycelial and/ or with their sporulating structures in the bulk sample.
4+ (Very Heavy Growth)	Evidence of very heavy growth observed on the sample as indicated by spores of one type seen with underlying mycelial and/or with their sporulating structures found to be nearly confluent in the majority of the microscopic fields examined.	Areas of very heavy growth detected by the presence of spores of one type seen with underlying mycelial and/ or with their sporulating structures in the bulk sample.

6. SURVEY FINDINGS:

During the survey, fifty-one (51) asbestos bulk samples of suspect materials and forty-four (44) paint chip samples were collected from various homogenous materials and analyzed to determine the asbestos and lead concentrations, respectively. Additionally, a total of eight (8) mold air samples, six (6) interior and two (2) outside samples for comparison, and three (3) mold surface sample were collected from client designated areas and analyzed to determine the concentrations of mold spores present in the indoor locations. A summary of the sample results and their respective locations are tabulated in the following tables. The laboratory reports are provided in **Attachment D**.

Table 6.1: Asbestos Samples and Results

Sample ID	Location	Homogenous #; Description	AHERA Category	Friable	Estimated Quantity	Percent / Type of Asbestos
A01	Office (Training Room)	4'x2' Ceiling Tile	М	Yes	500 square feet	None Detected
A02	Training Room	ng Room 4'x2' Ceiling Tile		Yes	500 square feet	None Detected
A03	Training Room	4'x2' Ceiling Tile	М	Yes	500 square feet	None Detected
B04	Exterior Western Walls	Flat Exterior Plaster	S	No	½ of Bldg.	None Detected
B05	Exterior Western Walls	Flat Exterior Plaster	S	No	½ of Bldg.	None Detected
B06	Exterior Western Walls	Flat Exterior Plaster	S	No	½ of Bldg.	None Detected
C07	Exterior Southern Walls	Textured Exterior Plaster	S	No	½ of Bldg.	None Detected
C08	Exterior Southern Walls	Textured Exterior Plaster	S	No	½ of Bldg.	None Detected
C09	Exterior Southern Walls	Textured Exterior Plaster	S	No	½ of Bldg.	None Detected
D10	Exterior & Interior Northwest Wing	Exterior & Interior Brick Mortar (Old)	S	No	20,000 square feet	None Detected
D11	Exterior & Interior Northwest Wing	Exterior & Interior Brick Mortar (Old)	S	20,000		None Detected
D12	Exterior & Interior Northwest Wing	Exterior & Interior Brick Mortar (Old)	S	No	20,000 square feet	None Detected
E13	New Wing	Exterior & Interior Brick Mortar (New)	S	No	20,000 square feet	None Detected
E14	New Wing	Exterior & Interior Brick Mortar (New)	S	No	20,000 square feet	None Detected
E15	New Wing	Exterior & Interior Brick Mortar (New)	S	No	20,000 square feet	None Detected
F16	Corner by Bathroom	Rose Colored Window Glazing	S	No	3,000 square feet	None Detected
F17	Corner by Bathroom	Rose Colored Window Glazing	N S No		3,000 square feet	None Detected
F18	Corner by Bathroom	Rose Colored Window Glazing	S	No	3,000 square feet	None Detected

Sample ID	Location	Homogenous #; Description	AHERA Category	Friable	Estimated Quantity	Percent / Type of Asbestos
G19	All Old Part of Building - Bathroom	Grey Window Glazing	S	No	+/- 5,000 linear feet	None Detected
G20	All Old Part of Building - Bathroom	Grey Window Glazing	S	No	+/- 5,000 linear feet	None Detected
G21	All Old Part of Building - Bathroom	Grey Window Glazing	S	No	+/- 5,000 linear feet	None Detected
H22	New Wing	White Window Glazing	S	No	+/- 5,000 linear feet	None Detected
H23	New Wing	White Window Glazing	S	No	+/- 5,000 linear feet	None Detected
H24	New Wing	White Window Glazing	White Window S No linear		None Detected	
125	New Generators – Generator #9					6% Chrysotile and 4% Amosite
126	New Generators – Generator #9	Pipe Insulation at 36" Generator Exhaust	TSI	Yes	+/- 120 Linear	6% Chrysotile and 4% Amosite
127	New Generators – Generator #10				Feet	6% Chrysotile and 4% Amosite
J28	Old Generators – Generator #6				+/- 120	5% Chrysotile
J29	Old Generators – Generator #7	Pipe Insulation at 36" Generator Exhaust	TSI	Yes	_ ·	5% Chrysotile
J30	Old Generators – Generator #7				reet	5%Chrysotile
K31	Upstairs Storage – West Central					3% Chrysotile (White Compound and Green Surfaced White Compound)
K32	Upstairs Storage – Southwest Central	Joint Compound (White Compound and Green Surfaced White Compound)	М	No	+/- 1,000 No Square Feet	3% Chrysotile (White Compound and Green Surfaced White Compound)
K33	Upstairs Storage - Southeast					3% Chrysotile (White Compound and Green Surfaced White Compound)

Sample ID	Location	Homogenous #; Description	AHERA Category	Friable	Estimated Quantity	Percent / Type of Asbestos
L34	2nd Floor Storage	1x1 Ceiling Tile	М	Yes	+/- 2,000 square feet	None Detected
L35	2nd Floor Storage	1x1 Ceiling Tile	М	Yes	+/- 2,000 square feet	None Detected
L36	2nd Floor Storage	1x1 Ceiling Tile	М	Yes	+/- 2,000 square feet	None Detected
M37	Throughout	Roofing System	М	No	25,000 square feet	None Detected
M38	Throughout	Roofing System	М	No	25,000 square feet	None Detected
M39	Throughout	Roofing System	М	No	25,000 square feet	None Detected
N40	Bathroom	Interior Rusting Panel	М	No	100 square feet	None Detected
N41	Bathroom	Interior Rusting Panel	М	No	100 square feet	None Detected
N42	Bathroom	Interior Rusting Panel	М	100		None Detected
O43	Oil Filter Tanks – Between Old and New Generators					2% Chrysotile
O44	Oil Filter Tanks – Between Old and New Generators	Oil Filter Tank - Black and Yellow Fibrous Insulation	TSI	Yes	+/- 5 Cubic Feet	2% Chrysotile
O45	Oil Filter Tanks – Between Old and New Generators					2% Chrysotile
P46	Filter Room	CB Mortar- Filter Room	S	No	500 square feet	None Detected
P47	Filter Room	CB Mortar- Filter Room	S	No	500 square feet	None Detected
P48	Filter Room	CB Mortar- Filter Room	S	500		None Detected
Q49	Throughout	Concrete Slab	S	No	25,000 square feet	None Detected

Sample ID	Location	Homogenous #; Description	AHERA Category	Friable	Estimated Quantity	Percent / Type of Asbestos
Q50	Throughout	Concrete Slab	S	No	25,000 square feet	None Detected
Q51	Throughout	Concrete Slab	S	No	25,000 square feet	None Detected

Note: AHERA Categories: M = Miscellaneous; TSI = Thermal System Insulation; SM: Surfacing Materials

Table 6.2: Lead-Based Paint Samples and Results

Sample ID	Equipment/Location	Paint Color	Substrate / Component	Lead Concentration (% wt)
01	Exterior Wall – Facing North	White Over Brick	Brick Wall	0.11 %
02	Exterior Exhaust Fan Cover	Silver Over Orange Over Metal	Metal Hood	14 %
03	Exterior Wall – Facing West	White Over Textured Plaster	Textured Plaster	0.028 %
04	Exterior Metal Door – Facing East	White Over Grey Over Red Over Metal	Metal Door	13 %
05	Exterior Door Frame – Facing South	Green Over White Over Wood	Wooden Door Frame	5.8 %
06	Exterior – Cooling Water Line	Blue Over Iron	Dactile Iron	0.058%
07	Exterior – Window Facing East and North	Silver Over Metal	Metal	0.27%
08	2 nd Floor – Outside Storage Room Interior Wall Facing South	Dark Green Over Brick	Brick wall	<0.050%
09	Interior Wall – Facing South	Light Green Over Brick	Brick Wall	1.6 %
10	Interior Separator Wall – Upstairs Facing North	Red Over Drywall (Around Former Fire Extinguisher Location)	Dry Wall	0.84 %
11	Interior Wall – Facing South	Purple Over White Over Brick	Brick Wall	0.57 %
12	Interior Wall – Facing South	Cream Over Light Green Over Brick	Brick Wall	1.3 %
13	Handrail – Upstairs	Grey Over Dark Green Over Metal	Metal Pipe Handrail	5.7 %
14	Valve Stems and Feeder Pipes – Valve Room	Silver Over Metal	Metal Piping and Valves	0.95 %
15	Yellow on Loading Ramp and Rail	Yellow Over Metal	Concrete/Metal	3.4 %
16	Exterior Door Near Southeast Corner	Dark Green Over Silver Over Door	Wooden Door	1.1 %

Sample ID	Equipment/Location	Paint Color	Substrate / Component	Lead Concentration (% wt)
17	1 st Floor – Water Supply Pipe Room – Water Supply	Light Green Over Silver Over Steel	Steel Pipe	.28%
18	1 st Floor – New Stairs and Value Room – Exterior Door	Dark Green Over Silver Over Wood	Wood	1.1%
19	1 st Floor – Paint Room, Exterior Door and Frame	Light Green Over White Over Steel	Steel	7.0%
20	Steel Truss – Roofing System	Light Green Over White Over Steel	Steel Truss	7.0 %
21	Concrete Floor Sealant	Light Grey Over Concrete	Concrete Floor	0.66 %
22	Old Generators	Dark Grey Over Metal	Metal – Generators #6- #8	0.53 %
23	Safety Railing Along Generator Sumps	Yellow Over Primer Over Steel	Steel Rail	26 %
24	Old Generator Room – Circuit Panel	Dark Grey Over Black Over Metal	Metal	0.27%
25	Interior Water Tank	White Over Orange Over Metal	Metal Tank	19 %
26	Gate Valve on Old Generators	Lime Green Over Metal	Metal Valve	5.5 %
27	Compress Air Tank with Old Generators	Red Over Orange Over Black Over Metal	Metal Tank	5.6 %
28	Old Generator room – I Beam	Dark Grey Over Steel	Steel	0.21%
29	Old Generator room – I Beam	Light Green Over Steel	Steel	0.16%
30	Metal Exterior Door	Tan/Brown Over Yellow Over White Over Metal	Metal Door	2.9 %
31	New Generator Room – Generator Filter Tanks	Black Over Steel	Steel	0.26%
32	Piping With New Generators	Orange Over Metal	Metal Piping	9.8 %
33	Piping With New Generators	Light Blue Over Metal	Metal Piping	6.0 %
34	Piping With New Generators	Lime Green Over Metal	Metal Piping	4.3 %
35	New Generator Room – Control Box	Light Green Over Rust Over Metal	Metal	0.17%
36	New Generator Room – Exhaust Pipe	Dark Blue Over Metal	Metal	0.24%
37	New Generator Room – New Generators	Dark Blue Over Dark Green Over Metal	Metal	0.37%
38	New Generator Room – Bottom 5ft of Wires	Dark Green Over Brick	Brick	0.42%
39	New Generator Exhaust Piping	Blue Over Metal	Metal Piping	3.8 %

Sample ID	Equipment/Location	Paint Color	Substrate / Component	Lead Concentration (% wt)
40	New Generator Room – Control Panel	Dark Grey Over Metal	Metal	0.11%
41	New Generator Room – New Generator	Red Over Metal	Metal	0.27%
42	Water Tank and Piping – Mezzanine	Yellow Over Orange Over Metal	Metal Tank	19 %
43	Partition	Dark Grey Over Plaster	Textured Plaster	0.21%
44	Sub Roof	Light Green Over Wood	Wooden Roof	1.3 %

Table 6.3: Mold Air and Surface Samples and Survey Results with Predominant Mold Types

Sample #: Location Description	Ascospores Results in spores/m³	Basidiospores Results in spores/m³	Chaetomium Results in spores/m³	Cladosporium Results in spores/m ³	Penicillium/ Aspergillus Results in spores/m³	Stachybotrys Results in spores/m³	Total Spore Results in spores/m³	Background debris (1- 4+)
ST01: Outside North	210	3,000	-	11,000	270	-	16,000	2+
ST02: Interior Restroom	400	3,100	590	620	290	-	5,400	3+
ST03: Training Room	190	830	-	1,600	93	-	2,900	4+
ST04: Upstairs Storage	270	7,700	790	270	1,800	13	11,000	>4+
ST05: Upstairs Valve Room	320	4,000	7	3,000	300	-	7,800	4+
ST06: Downstairs Storage	130	1,700	7	860	-	7	3,000	4+
ST07: Filter Room	190	1,900	-	1,100	-	-	3,500	2+
ST08: Outside South	190	2,500	-	2,500	-	-	8,700	2+
SB01: Interior Restroom	3+ Chaetomium species (spores, hyphal fragments)							
SB02: Training Room	2+ Cladosporium species (budding cells, hyphae)							

Sample #: Location Description	Ascospores Results in spores/m³	Basidiospores Results in spores/m³	Chaetomium Results in spores/m³	Cladosporium Results in spores/m³	Penicillium/ Aspergillus Results in spores/m ³	Stachybotrys Results in spores/m³	Total Spore Results in spores/m³	Background debris (1- 4+)
SB03:		4+ Chaetomium species (spores,						
Upstairs	hyphal fragments)							
Storage								

Notes: MoldRANGE Typical Outdoor Medium Concentration for Penicillium/Aspergillus during April in Louisiana is 160 spores/m³;

xxx = outside of acceptable criteria

7. DISCUSSION OF THE RESULTS:

7.1. Asbestos:

Asbestos was detected in concentrations greater than regulatory limit of 1% in 15 of 51 samples collected, over five homogenous materials. Asbestos was detected in the following materials: 1) Thermal Pipe Insulation at 36-inch New Generator Exhaust – approximately 120 linear feet located in exhaust piping of all new generators; 2) Thermal Pipe Insulation at 36-inch Old Generator Exhaust – approximately 120 linear feet located in exhaust piping of all old generators; 3) White and Green Surfaced Joint Compound – approximately 1,000 square feet within drywall of second floor storage room; ad 4) Thermal System Insulation – approximately 5 cubic feet with oil filter tanks between new and old generators. The detectable asbestos concentrations of these materials ranged from 2% to 5% Chrysotile and 4% Amosite. The above referenced quantities are approximations and should be confirmed by the abatement contractor.

Prior to proceeding with the planned remediation activities, the ACM should be removed in accordance with state and federal regulations and an abatement protocol designed by a LDEQ accredited asbestos designer. The use of wet methods or local exhaust ventilation, respiratory protection, disposable suites, gloves, safety glasses, hand washing stations, demarcation, training, air monitoring, change rooms, medical surveillance, and cleaning, and waste disposal must be in accordance with the regulations and city ordinance of the job location, the State of Louisiana DEQ and such federal agencies as the Occupational Safety and Health Administration (OSHA) and the Environmental Protection Agency (EPA). Additionally, the submittals of the AAC-2 and completed ADVF forms must also be in accordance with regulations. The details of the OSHA asbestos regulation can be reviewed in 29 CFR 1926.1101 and 29 CFR 1910.1001. Personnel and area asbestos air monitoring should be performed during the renovation activities in satisfaction of OSHA requirements.

All asbestos and asbestos-contaminated waste must be disposed of at a disposal site authorized for hazardous waste disposal in Louisiana by the Louisiana Department of Environmental Quality, Hazardous Waste Division. Such site must be operated in accordance with the applicable portions of the LAC Title 33:III Chapter 51 - Comprehensive Toxic Air Pollutant Emission Control Program, as administered by Louisiana Department of Environmental Quality, Air Quality Division.

7.2. Lead:

The lead content in the paints were detected in 43 of the 44 paint chip samples collected. An inventory and description of paint chip samples and their respective locations is summarized above in Table 6.2. Prior to any sanding, scraping, blasting renovation activities associated with this component, an additional

sample should be collected. OSHA does not set a safe limit for lead-based paint, but instead set limits for airborne lead concentrations during activities which disturb the lead containing paints. The use of wet methods or local exhaust ventilation, respiratory protection, disposable suites, gloves, safety glasses, hand washing stations, demarcation, training, air monitoring, change rooms, and medical surveillance may be required based on the air sampling results. The details of the OSHA lead regulation can be reviewed in 29 CFR 1926.62. Personnel and area lead air monitoring should be performed during the renovation activities. The air sample plan can be developed to assess the worst-case scenario and can potentially be used in similar projects. The client may already have this objective air monitoring data. If so, the client may use this objective air monitoring data to predict airborne exposures. It should be noted that the objective air monitoring data should be no older than twelve months.

If the surfaces containing lead-based paint will be disposed of instead of recycled, the lead containing components should be analyzed via Toxicity Characteristic Leaching Procedure (TCLP) analysis for lead to ensure proper disposal. If the TCLP results for lead is </= 5 ppm than the components can be disposed of as C&D waste. If the TCLP results for lead is greater than 5 ppm, then the components must be disposed of as hazardous waste. If the components are being recycled, the company recycling the units should be made aware of the lead in the paint.

7.3. Mold:

Four of the six interior mold air samples and each of the three mold surface samples analyzed during this survey were not acceptable based on the clearance criteria. It was determined that unacceptable concentrations of airborne and surface mold were present in the Interior Restroom, Training Room, Upstairs Storage, Upstairs Valve Room, and the Downstairs Storage. Based on TES's clearance criteria, four of the six indoor sampled locations were outside of the acceptable ranges for a well-maintained building and not acceptable for occupancy. A mold abatement protocol can be developed, in consideration of the asbestos and lead survey results, using wet methods, HEPA filters, and proper personal protective equipment. The Client should select a licensed mold abatement contractor to perform remediation efforts following the mold abatement protocol. Following completion of remedial efforts, clearance sampling, along with a visual inspection, should be performed to evaluate the effectiveness of the remedial efforts. Following the completion of remedial efforts, the Client should have clearance sampling, along with a visual inspection, performed to evaluate the effectiveness of the remedial efforts and clear the sampled locations for re-occupancy.

For mold-containing, non-asbestos and non-lead containing waste, wrap any contaminated components too large to fit in bags in 6-mil polyurethane and secure with tape. All contaminated waste generated during remediation shall be immediately placed in the appropriate waste container or wrapped after removal. All smaller contaminated components shall be double-bagged into 6-mil trash bags and sealed using the goose-neck technique. Prior to sealing waste bags, evacuate excess air using a HEPA vacuum. All waste bags and wrapped large components shall be HEPA vacuumed prior to leaving the work area. Dispose of waste as ordinary construction debris if no regulated contaminants (e.g., lead or asbestos) are present.

8. RECOMMENDATION(S):

- 1. The Client should have an LDEQ accredited asbestos designer develop an asbestos project design, an LDEQ accredited lead supervisor develop a lead worker protection plan, and a Certified Industrial Hygienist develop a mold abatement protocol.
- A state certified asbestos abatement and licensed mold abatement contractor should be contracted to perform the abatement activities in accordance with state and federal regulations and the abatement protocol.
- 3. The Client should have all identified ACM removed in accordance with the abatement specification and in satisfaction to LDEQ, OSHA, and EPA regulations, prior to proceeding with remediation activities.
 - 3.1. The Client should coordinate the performance of third-party asbestos air monitoring throughout the duration of abatement activities as required by OSHA. Training should be performed for employees disturbing the asbestos containing materials, and certifications should be always readily available throughout the remediation. The Client should require access to OSHA regulation 29 CFR 1926.1101 and LAC Title 33:III Chapter 27 Asbestos-containing Materials in Schools and State Buildings Regulation, and LAC Title 33:III Chapter 51 Comprehensive Toxic Air Pollutant Emission Control Program. Additional controls may be reviewed in 29 CFR 1926.1101 and 29 CFR 1910.1001.
 - 3.2. The Client should coordinate disposal of all asbestos and asbestos-contaminated waste at a disposal site authorized for hazardous waste disposal in Louisiana by the LDEQ Hazardous Waste Division. Such site must be operated in accordance with the applicable portions of the LAC Title 33:III Chapter 51 Comprehensive Toxic Air Pollutant Emission Control Program, as administered by Louisiana Department of Environmental Quality, Air Quality Division.
- 4. The Client should have all identified lead-based paints removed in accordance with the worker protection plan prior to proceeding with remediation activities.
 - 4.1. The Client should consider performing or requiring contract personnel perform lead air monitoring as required by 29 CFR 1926.62(d)(5), unless 29 CFR 1926.62(d)(4)(ii) applies. Training should be performed regardless of the air monitoring data for employees disturbing the paint containing detectable concentrations of lead. The training should be completed in compliance with 29 CFR 1926.62(l). A hand washing facility should be made available to any personnel disturbing the paint containing detectable concentrations of lead in compliance with 29 CFR 1926.62(i)(5). Additional controls may be required based on the air monitoring data.
 - 4.2. The Client should consider TCLP for lead analysis to determine waste disposal procedures.
- 5. The Client should have all identified mold contaminated materials abated and all areas with identified mold presence properly clean in accordance with the abatement protocol and Chapter 24-A of title 37, Mold Remediation of the Louisiana Revised Statutes (including the 2022 House Bill No. 602) and such federal agencies as OSHA and EPA.
 - 5.1. Following completion of remedial efforts, the Client should consider clearance sampling, along with a visual inspection, performed by a third party to evaluate the effectiveness of the remedial efforts and clear indoor locations for re-occupancy.

9. ATTACHMENTS:

- A. Field Notes
- **B.** Inspector Certifications
- C. Photolog
- D. Laboratory Reports

ATTACHMENT A FIELD NOTES



ENV
Client: Terreborne Mici Location: Old Diesel Plant TES Job #:
What is the address of the dwelling? 1551 BARROW 57. Human Zip Code of building: 70360
Associate's Name: T. Arnold Sample Date: 5-16-23 Weather Conditions: 77°, 76% NNGZ SUNNY CLEAN
PROJECT BACKGROUND INFORMATION
Describe the purpose of the mold assessment based on interview(s) of occupant(s):
Day Areas OF VMG Ans Collect
5 Angles.
Any health effects described by the occupant(s) Yes or No; If yes, describe Bildy alandoud
since farricane tola in 2021.
Is there any visible mold growth? Yes or No; If yes, describe ON PAPER PRODUCTS IN
warehouse, interior restruct, upstairs storage. Fifth Kom
Is there any evidence of water intrusion? Yes or No; If yes, describe Rook is Missing
IN Numerous Macas, Windows Brokenthroughout, Doors
Is a musty odor present? Yes or No; If yes, describe IN restroom Ans
Is a musty odor present? The Yes or No; If yes, describe
upstrirs storner and filter form.
DWELLING TYPE
□ Commercial Building; □ Residential; □ Office Space; Garage/Storage Building; □ School; □ Other:
How many square feet is the dwelling? ~ 25,000 SF.
Provide a description of the dwelling: Carpet? Yes or No If Yes, Where? If No, detail construction Concrete Flours
Startage If No detail construction Bricic Warrs
Drop-in ceiling? Yes or No If Yes, Where? Training from 3 lot Warm 4 Triture volume paintroom 3 upsairs stury
Flat Roof? - Yes or No If No, detail construction Pitches Asphalt Roof.
Brick Exterior? Dyes or Del No If No, detail construction
Any garden sprinklers hitting building? Yes or Yes or Yes, Where?
Can you secure a drawing of the floor plan? Yes or Do; If no, then draw the floor plan in the observation form.
Altseven



HVAC SYSTEM
Have the Client safely open the plenum of the HVAC system so the following questions can be answered □ Central Air & Heat; Window Unit(s); □ Natural Ventilation; HVAC Description:
Fresh Air Dampener(s) 100% Open; 100% Closed; Other Are the filters clean 1 Yes or No;
Is the plenum clean □ Yes or □ No; If No or cannot access, describe No
Is water overflowing from the evaporator coils Yes or No; Description
What MERV rating are the filters □ MERV 8; □ MERV 11; □ MERV 13; □ other MERV: □ MERV
How often are the HVAC filters changed monthly; quarterly; other O
Are supply and return air grills clean? Yes or XNo; Describe if No, Dust Bics Up.
SAMPLING INFORMATION
Sampling Equipment Used: Pio-Pump; Anderson Impactor Serial Number(s) of Equipment: 1089/
Sample Media Used: Spore Trap; □ MEA agar; □ Swab; □ Tape
Cal Device Used: Rotameter; □ na - or bulk sampling only
Pre-Flow Rate(s): 715 l/m; 28.3 l/m; other Post-Flow Rate(s): 715 l/m; 28.3 l/m; other

SAMPLE ID	SAMPLE TYPE (ST; Bulk; Anderson)	LOCATION OF SAMPLE	TEMP °F	RH %
1	ST	DUTSING NORTH OF DIESEL PLANT	90.3	58.8
2	ST	INTERIOR RESTROOM	84.7	48.8
3	ST	Foo. Training Room	75.7	585
4	51	UPSTAIR STORAGE ROOM	79.8	72.3
5	57	UPSTAIR VALVE AREA	82.0	62.7
6	ST	Downstoins Storage	82.0	59.4
7	ST	F. Her Soom	818	58.5
8	ST	OUTSIDE SOUTH OF DIESEL PLANT	95.7	46.
A	SB	INTERIOR RESTUDEN WALL	847	48.8
B	SB	INTERIOR TRAINING ROOM.	75.7	58.9
C	SB	UPSTRIBS STORAGE ROOM.	79.8	72.3
		·		

Note: I " means once a on typ of

Client:

Lead Paint Chip Sampling Form
Project #: 1658-2328 8.0.#

Project Name:

	THE PROPERTY OF THE PROPERTY O	SHARWANANANANAN	I to Design Research and the control of the control	NEW YORK OF THE PARTY OF THE PA		
Room	Sample Location ID	Substrate	Component	Paint Colors/Layers	Result	Classification
Entwie	01	Brick	Exhvior Well-Fi	White Const		
Experier	62	Metal	Extrangt Fun Cour - NN	10th out of	0.11 %	
Elsevier -	03	Textured Plastor	Exterior Wall- Few	Salver on top of Orange	14 %	+
Elwin Dar	04	Metal Dar	EXEVUI DES -FE	White Only Cayer White Grey Red	0.018 %	_+
Exerizy - Chim.	m 05	Wood France	Elevin Figure FS		13 %	+
Exterior	06	Duttle Iron	book Cooling Webs - Il	Green / White	5.8%	1
Everyor.	07	Meter	Exercise Wirder		0.098%	+
2 nd Floor storye	og	Borel	Judeview CUENT-FS	Silver	0.27 %	+
2nd Hoer -" "	09	Bhose	Jalune Wall-Es	Davk Green	40.080 %	
2nd Door - "	10	Dy wall	Interior Separter	Light Green	1.6 0/0	+
2nd floor - Room	, 1)	Rrick	Industry Wall -	TEST (CONSTRUCT TOTAL TITLE TEXT,	0.84 %	+
2nd Floor - Value	12	Brick	Identer WII- #5	Surple White	0.57 %	1
2nd Floor - Burnsty	v 13	Steel Pipe	Steel Pipe	Cream / hight Green	1.3 %.	+
2nd Floor - Value Room	14	Steel Value	Steel Value Steens	Grey Dark Green	5.7%	+
(st 4). Legalio	15		Yalker war Prot	pps Silver	0.95 %	+
15+ Floor - wall pipe	()	Conchese	Yellow Warry Part	Tellow	3.4 %	+
1) PIOUS SUPPLY FLOR	. 17	Steel Pipe	Wake Supply Aping	Dark Guen/Silver	0.27 0/0	+
15+ \$1601 - Wear \$ 10	hat .		Exound Door	Light brun / Silver	0.28 0%	+
L. VI Paret	10	Wood		Dank Green/ Situes	1.1 0/0	+
1St Floor - Room	19	Metal	Intular Pour	Dark Coney / high Gray	0.022 0/6	+
121 1100)		Stee)	Steel Trush	Light Green/White	7.0 %	+
			(Rostij Sytum)	0		

Lead Paint Chip Sampling Form

. 7	and sampling rotti	
Date: 5/16/25	Project #: ENV-1658-23284 P.O. #	TA196-lw
Project Name: Old Dissol Plant	Facility Dresel Pupper.	Building Diesel Punn
	The Silver	Insp.: TA JSN
Room Sample Location ID	Substrate Component p-1-	

West and the second of the sec	Partition and Action of the Control			Insp.:	h
A STATE OF THE PARTY OF THE PAR	Sample Location ID	Substrate	Component	Paint Colors/Layers	Result Classification
Old Commater from	21	Canalese	Coursel Phor	0.56	
* //	22	Steel	Old Canada	Denk Gney	0.660)e +
16 11	23	Steel	Step Failing along generative sumps	Jank Grey	0.53%
11 //	24	Moter	Citenit Panel	Yallow prince	26 %
11 //	25	Metal	Interior Clayer	Dark Crany / Black	0.27 %
10 11	ZG	Medel	Gate Value an	White Grounge	19 %
1 //	27	Medel	Course IN	hime Green	5.5 % +
V //	28		Tank is Ord Quester	Ked Orange Black	5.6 % +
11 11	29	Steel	I- Beam	Dark Gray	0.210/0 +
11 / 7		Steel	J-Beam	Light Green	0.16 0/0 +
Ha Leseyter Door	30	Metal	Metal Exturer General Filter	Tannish Brown (Umber?)/4	18 / Culy 2 29% +
New Generator Recom		Speel	Connector Filter	Hack (1977)	0.260% +
سر ۶۰	32	Stee)	General Filter C	Lime Grange	9.8% +
35~	33	The second secon		highor Blue	6.0 %
11 //	34	11 //	1 11 1	hime Green	4.3 %
	35	Metal	Countrol Box Box Banders	hylo Green Bust	0.17 0/0 +
11 ~	36	Mer	New Obertar Eduary Pipty	Durk Blue	
111	37	Metal	New Genucius	Park Blue / Dewk Green	0.24 %
	38	Brek			0.37 %
11/	39	Meta	Dottum 5 of West New Gebleway Play	Dark Guen	0.42 %
11 //	WO	Metru	New Giveneral Per	Blue	3.8 %
A			Canaron And I	Dark Cry	0.11 % t

Lead Paint Chip Sampling Form

T 1/ 27		
Date: 3-16-25 Project #: 1658- 23299P.O.#	26	
Client: 1211 Derre PAGE	T.A.T	
roject Name: Old Diesel Part Acm Survey	Building OCD Diese	PLAN
	Insp.: IAI JR	

(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Sample Location ID	Substrate	Component	Paint Colors/Layers	NAME OF TAXABLE PARTY O	
New Charge Fee Tustor Charges Alexander Sin emman gur	H/	Metal Metal Textured	New benevoler	Red Yellow Orange	0.27 %	Classificatio
HAP Root	44 44	Wood Musher	Pantition Sub Roof	Dark Crey Light Green	0.21 %	+

Faint Chip Eumpling Locations

80 N 25 30.5 0107 -2 w. .Z2 * 33 120 5. & Ho er TRAIN, TT ST STORAGE 100 1790 SE 8 WELD AVEA 107 S 020 POTENTIAL ASBESTOS AT ALL MEPIFP SYSTEMS & EQUIPMENT POTENTIAL ASBESTOS IN WINDOW GLAZING AT ALL WINDOWS 8 8 LEGEND

202233.00

240 \otimes POTENTIAL LEAD PAINT AT ALL PAINTED SURFACES INCLUDING FLOORS, WALLS, CELLIAGROOF, METAL STRUCTURE. POTENTIAL ASBESTOS AT ALL MEPFEP SYSTEMS & EQUIPMENT POTENTIAL ASBESTOS IN WINDOW GLAZING AT ALL WINDOWS

Asbestos Inspection Form

Client:

Facility: Address:

Project:

Inspection Date:

spection Date: 5/15/23 TES Project #: £NV-1658 - 2328 4

Inspector Name (print): Town

Inspector Signature:

Homogenous # -	Sample # .	Material Description	Functional Space (locations)	Estimated Quantity	(1)AHERA Category	⁽²⁾ Condition	Friable (Y/N)	^{BJ} ACM (Y/N
A	01-48131	4'x2' Ceilly Tike	Office room)	500SF	m	Wavpid	ĭ	N
A	a	w	Training Room	* (
A	03	\r \c/	11 0	n (/	V	V	V	V
3	04	Flat Exhibit	Extunor westerns	Whole 1/2 Baldin	5	Inhet	N	N
B	05	11 1	El ~					
3	06	W //	Y "	V	V		V	V
BOC	07	Fextured Extunor placed	Exhibition South and	1/2 Builing	5	Ithit	N	N
C	08	1	4 0					
C	09	10000	N /	V	4		6	V
D	10	Exterior & Fatoror (old)	Extras	20,000 wry St	5	Inter	N	N
P	11	γ «	V V	1				
P	12	11 7	11 01		V	V	V	V
Ŧ	13	Exturer & Traver	Answar Answard	20,000	S	Intest	N	N
E	14	1 11	11	1	1	1,		
E	15	W d	V 1/	V	V	V	V	V
F	16	Colored Windows	Country or	thrown LF	5	Coacking	N	N
F	17	W 4	1 0					
F	18	11 01	5	V		V	V	\forall
(*)								

Asbestos Inspection Form

Client: Facility: Younu Address:

Project:

Inspector Name (print):

Inspector Signature:

Inspection Date: 5/5/13
TES Project #: FW-1658-13289

Homogenous #	Sample #	Material Description	Functional Space (locations)	Estimated Quantity	(1)AHERA Category	^[2] Condition	Friable (Y/N)	(3)ACM
G	19	Grey Window Grazne	All old force	±5000c	25	Cracking	N	N
4	20	Al e	1 1	1	1	1		
G	2/	11 11	11/	4	V	V	V	V
H	22	While Window Wazing	ha ming	±5000	5	Cracking	N	N
H	23	110	4 11	1	ħ.			
1+	2-1	1111	No of	1	V	V	V	\bigvee
I	25	Pipe inswerren 36 at general exhaus	Newer	benerio	prs [S]	Hard White (intert)	FF	Y
I	26	(harder 11 //	6 Gunaters	1 9-1.	2		1	
王	27	STANKE!	/	V	V	V	V	V
2	28	Pipe Insulation	Oldner	Cone	valens 151	Int	4	Υ
5	29	(+5±) 36"	600 Gen enster	s war		1	1	
3	30	V		9	1	V	V	
K	31	Dysqual \$ Sornt Company	2nd Flows Part Storage	c=10005F	5	Mosty	N	Y
K	32	Company	w ./		1	3,440	1	
K	33	\sim	71 /	V	V	· ·	V	V
L	34	IXI Cello	2nd Floor Herorge	7 200 SY	m	Majoled	4	N
4	35		n ×	1	1	1	1	1
L	36	W	4 ~	4	V	V	V	V
M	37	Raching System	Througher	15,000 SF	n	Dangel	N	Ŋ

Asbestos Inspection Form

TESO

Client: Temelogne Yavish

Facility: Farmer Dress / Plan

Address: 1551 Bowlow St.
Project: ALM Lasgertien

Inspector Name (prin

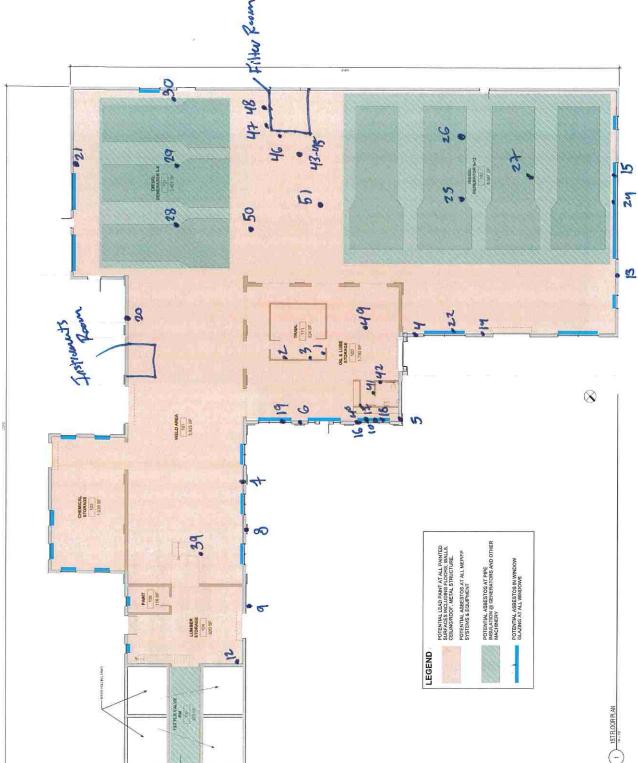
Inspection Date: 5/5/23
TES Project #: Fuv-1658-2328 \(\text{Inspector Name (print):} \)
Inspector Signature:

Homogenous # ·	Sample #	Material Description	Functional Space (locations)	Estimated Quantity	(¹⁾ AHERA Category	^[2] Condition	Friable (Y/N)	(3)ACM (Y/N
M	30	N	Theight	25000 158	M	Downgrad	N	N
М	39	V of	L	1	V	V		1
\sim	40	Inowin Rating	between	# 10 5F	M	Intert	N	N
N	41	* 4						
N	42	1000	V	V	V	V	V	V
O	43	Oil Tank Titler TSI	3 new years	15	T51	Intait	Y	Y
C	49	1 /)		
0	45	V	V	4	V	V	V	V
P	46	CB Martar - Filher Rown	Filher Boom	5005F	5	Inter	N	N
P	48947		VI W	500 SF				
P	48	11 1	11 1/			W .	V	V
Q	49	Converte Slab	through t	25,000 5x	5	Intert	N	N
6	50	1 6	10	1				
Q	5	NN	1001	V	V		V	V
			-		, , , , , , , , , , , , , , , , , , , ,			

PRELIMINARY NOT FOR CONSTRUCTION ARCHITECTS BEAZLEY MOLIERE TPCG DIESEL PLANT VB/ CHECKED BY IMJ9 ROOJ9 Tat

T.A. \$ J.R.

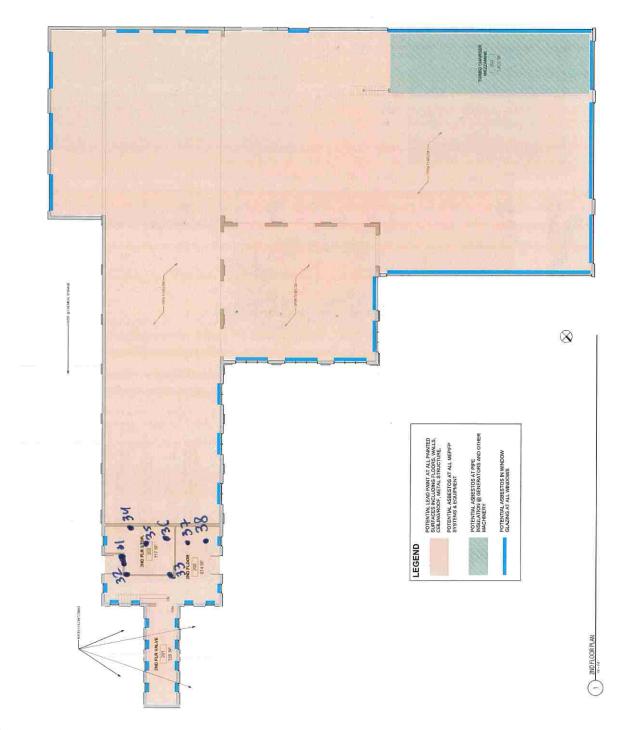
Asbustus Sampling howards -5/15/2013



TPCG DIESEL PLANT

PRELIMINARY NOT FOR CONSTRUCTION

202233.00



ATTACHMENT B INSPECTOR CERTIFICATES

STATE OF LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

certifies that

Thomas L Arnold Jr.

Has complied with all requirements of the Louisiana Department of Environmental Quality and is authorized to perform the duties of

Asbestos Inspector

Accreditation No. JI211452

AI No. 211452

Date of Issuance January 10, 2023

Expiration January 12, 2024

Failure to comply with all applicable provisions of La. R.S. 2025.E. (1)(a) and La. R.S. 2025.F. (2)(a) may result in civil and/or criminal enforcement actions by the State.

Permit Support Services Division
Office of Environmental Services

STATE OF LOUISIANA

DEPARTMENT OF ENVIRONMENTAL QUALITY

certifies that

Thomas L Arnold Jr.

Has complied with all requirements of the Louisiana Department of Environmental Quality and is authorized to perform the duties of

Lead Inspector

Accreditation No. AI211452

AI No. 211452

Date of Issuance March 31, 2022

Expiration April 15, 2023

Failure to comply with all applicable provisions of La. R.S. 2025.E. (1)(a) and La. R.S. 2025.F. (2)(a) may result in civil and/or criminal enforcement actions by the State.

Public Participation & Permit Support Division

Office of Environmental Services

STATE OF LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

certifies that

Thomas L Arnold Jr.

Has complied with all requirements of the Louisiana Department of Environmental Quality and is authorized to perform the duties of

Lead Risk Assessor

Accreditation No. OR211452

AI No. 211452

Date of Issuance November 16, 2022

Expiration October 15, 2023

Failure to comply with all applicable provisions of La. R.S. 2025.E. (1)(a) and La. R.S. 2025.F. (2)(a) may result in civil and/or criminal enforcement actions by the State.

Public Participation & Permit Support Division

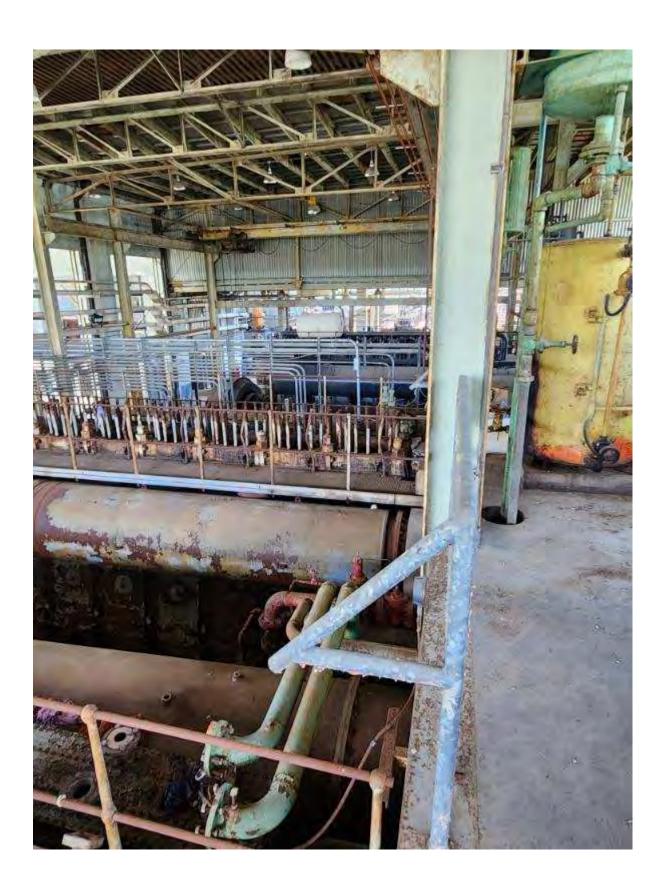
harles Jinley

Office of Environmental Services

ATTACHMENT C PHOTOLOG



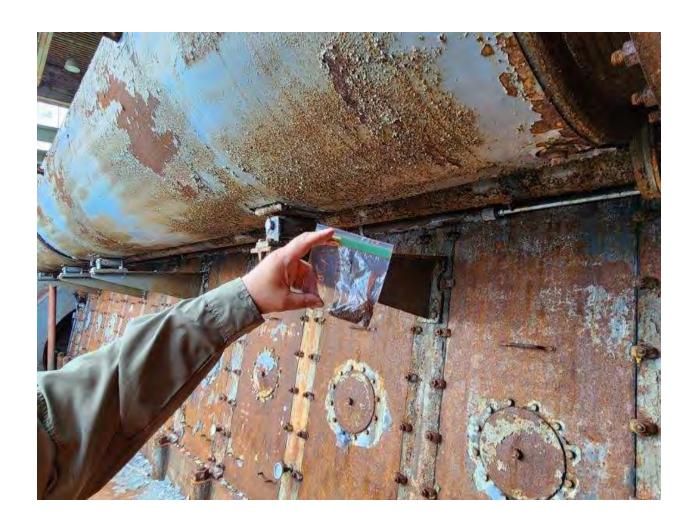






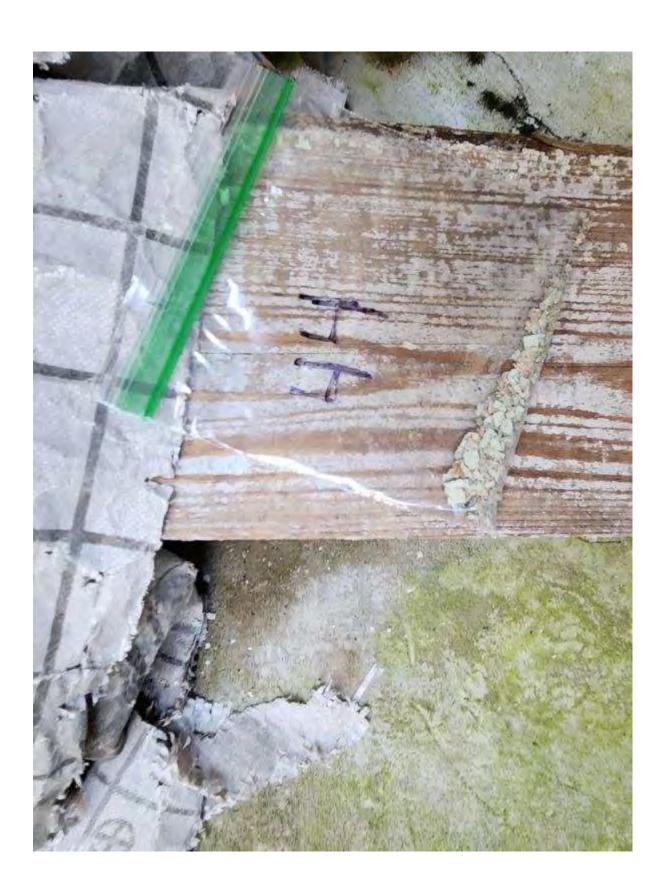








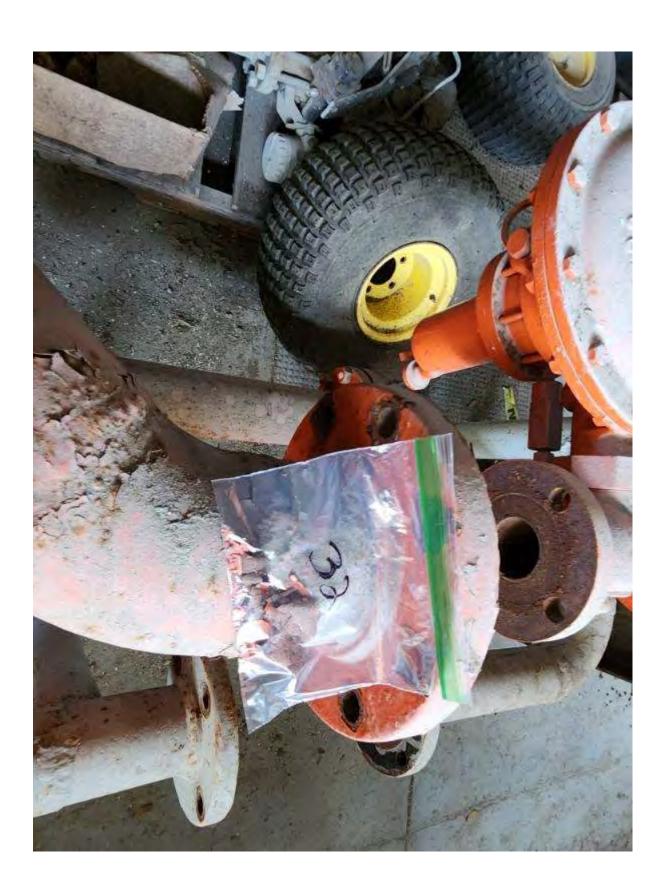














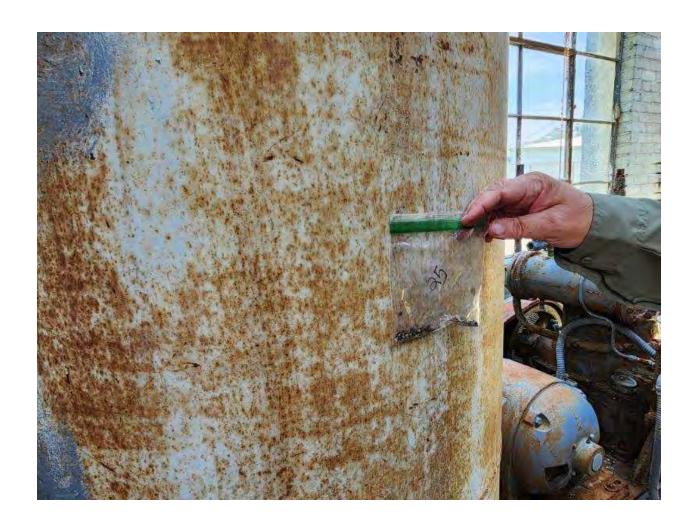




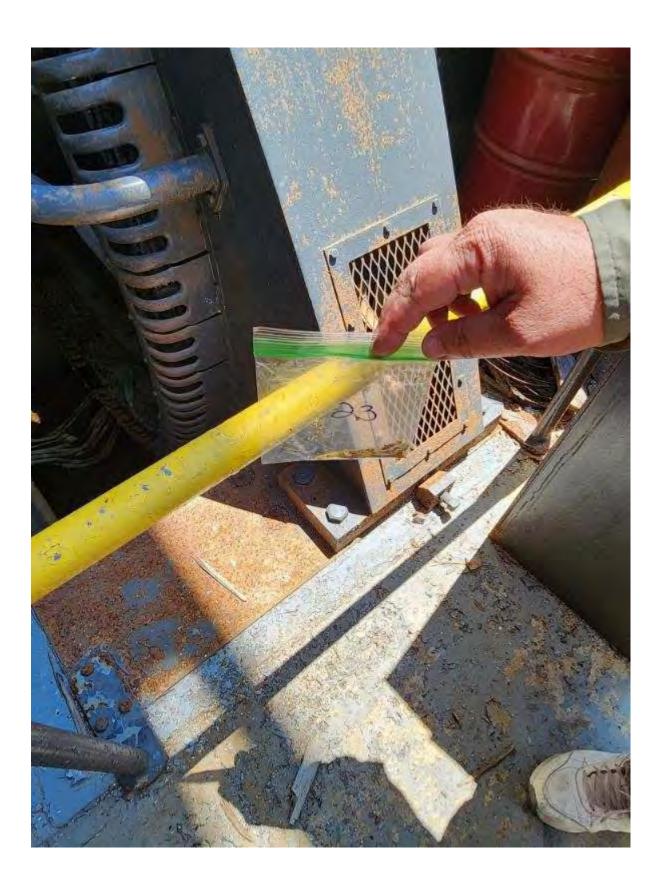


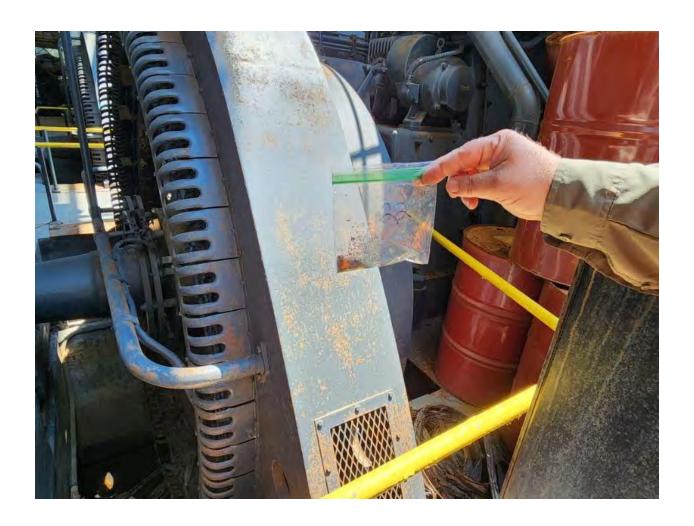


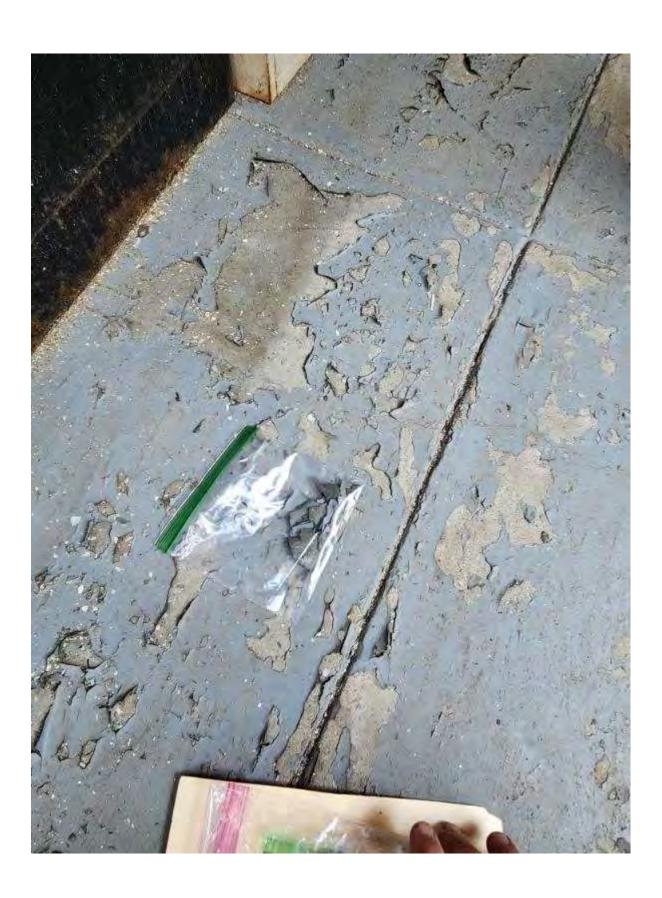














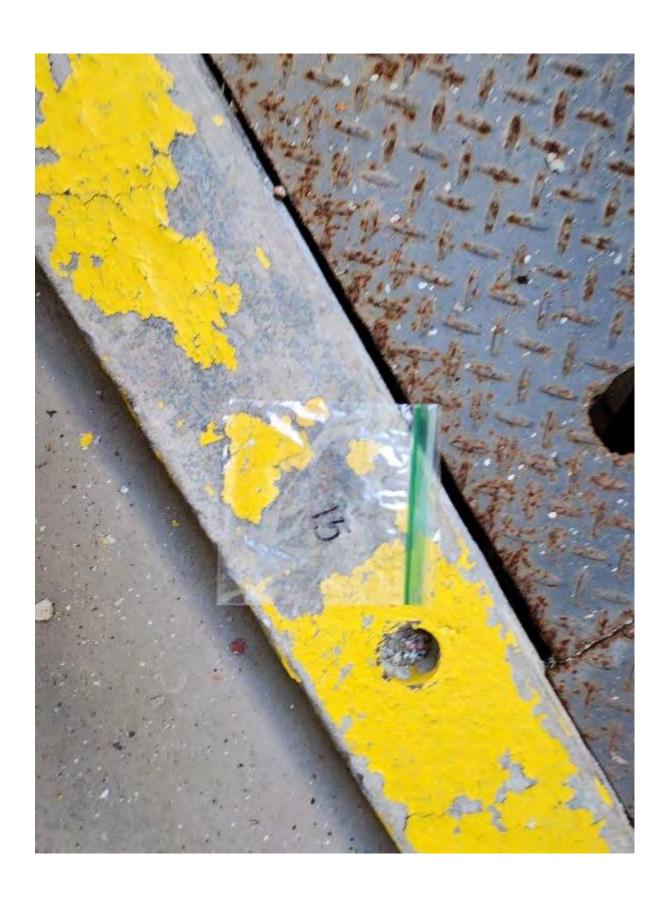












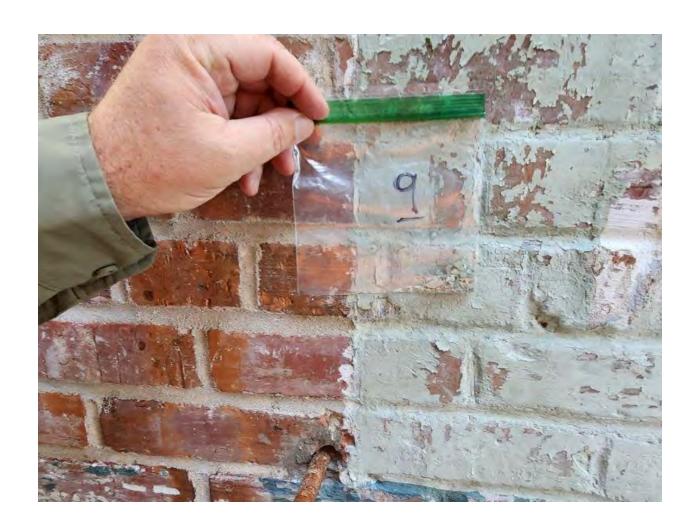




















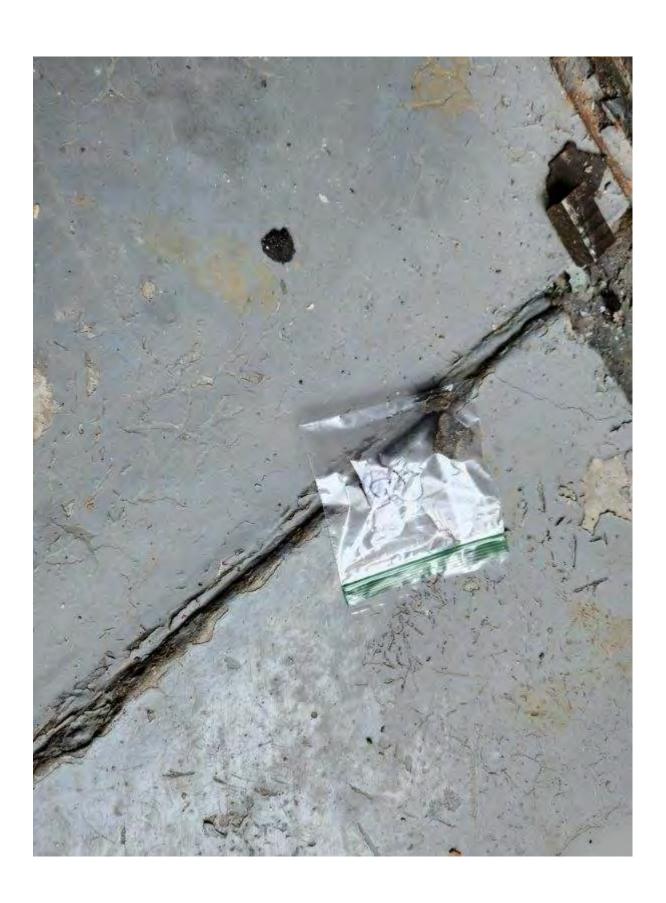


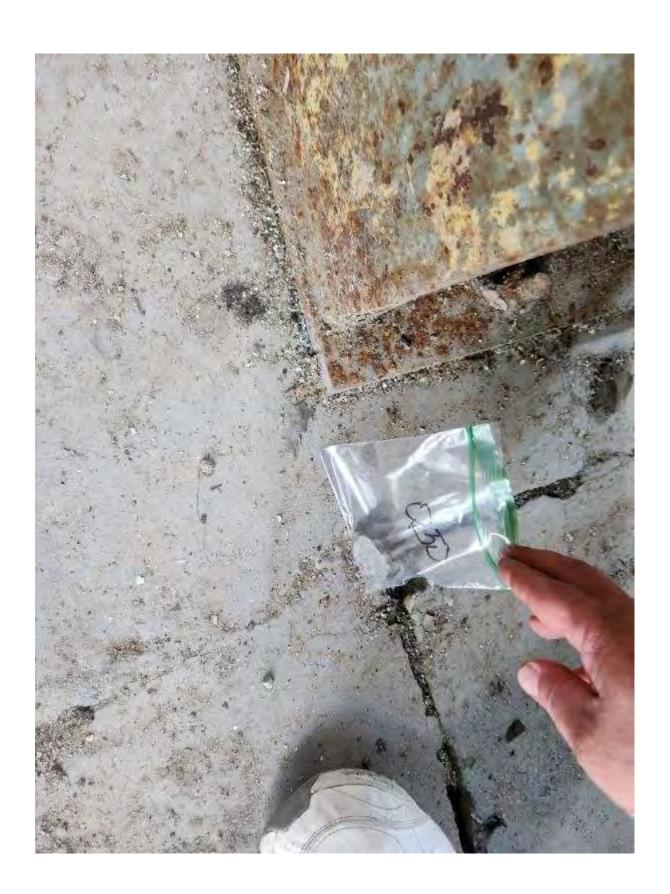


















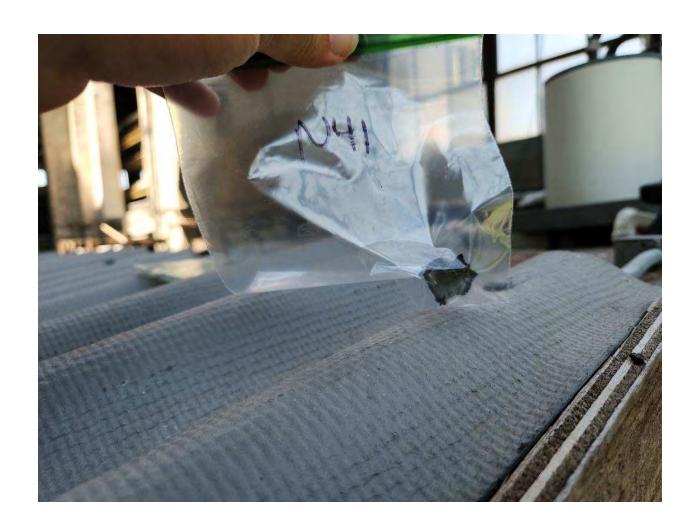








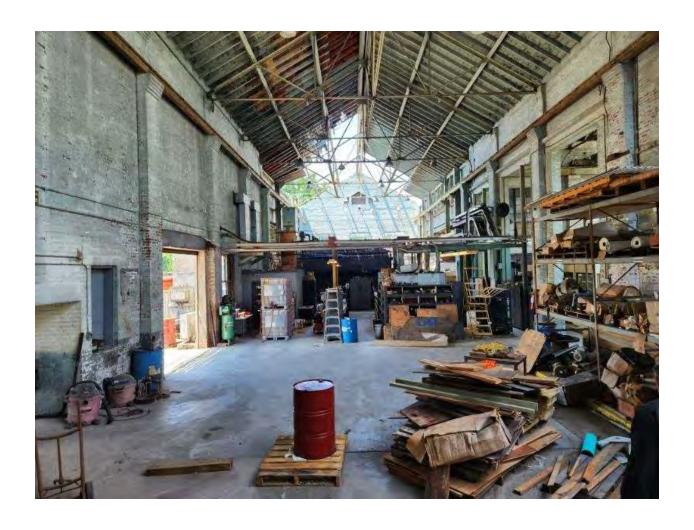


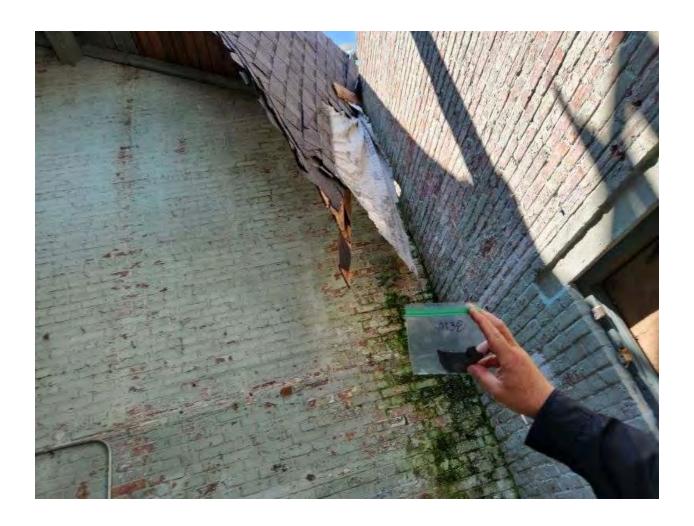




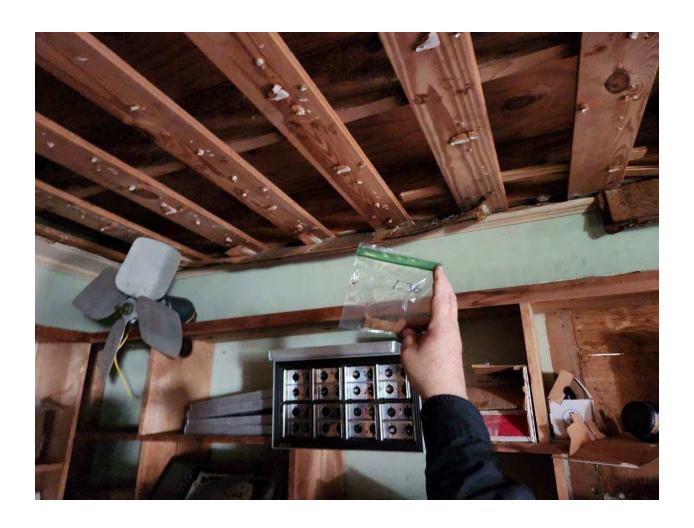


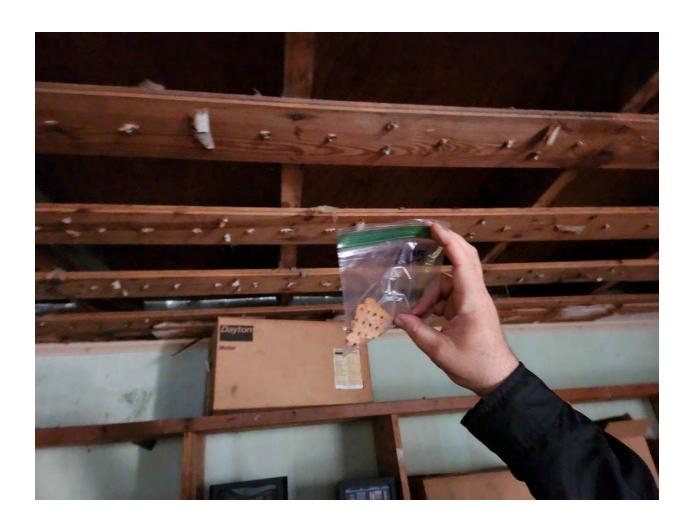








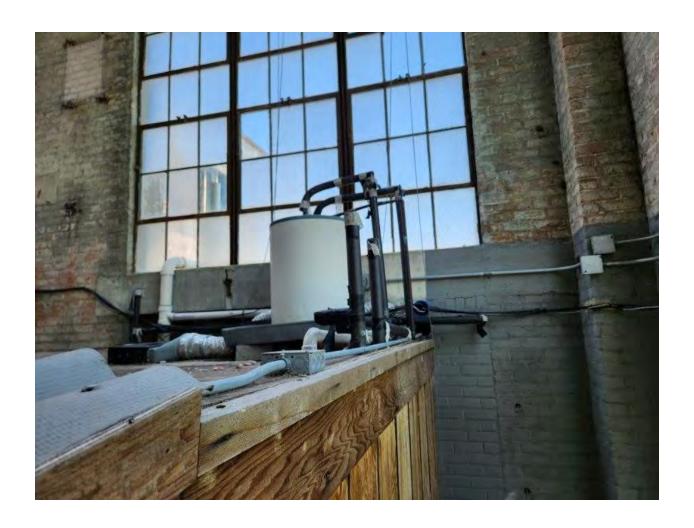














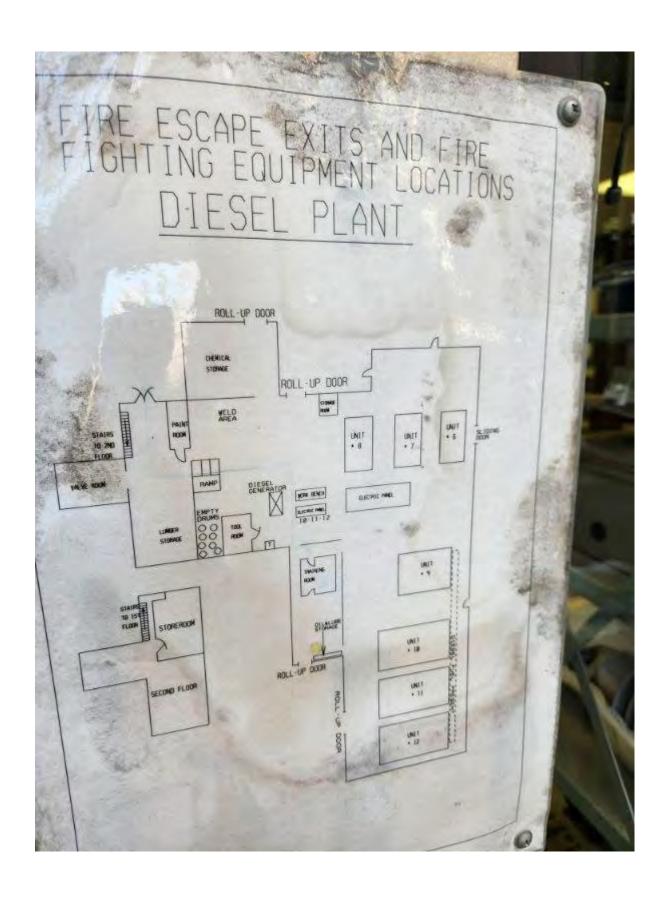














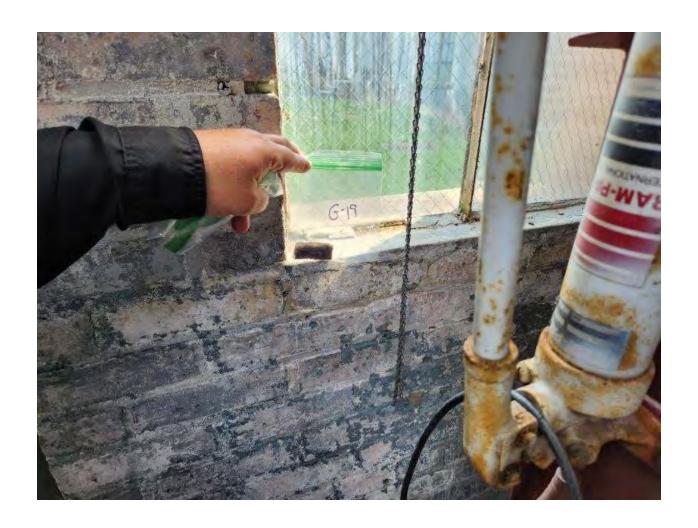


















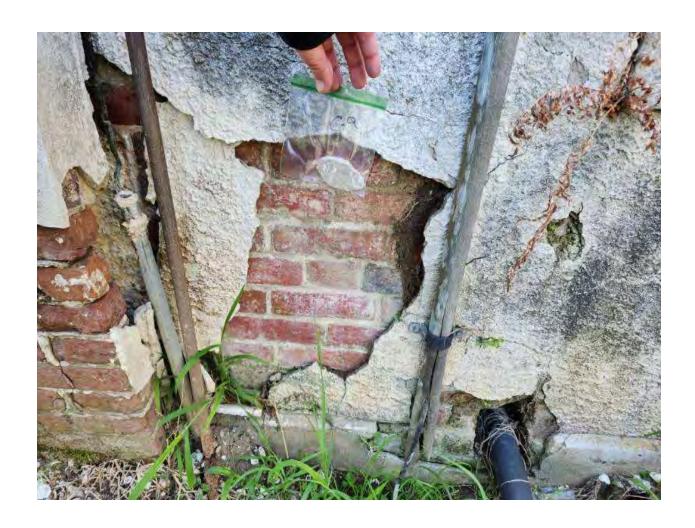




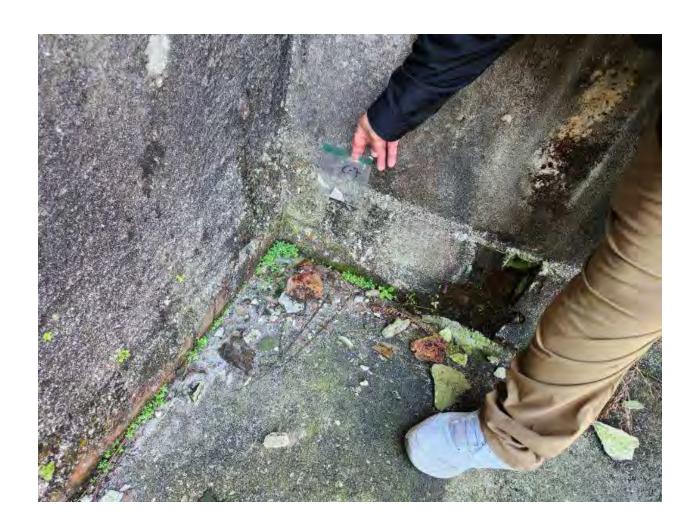














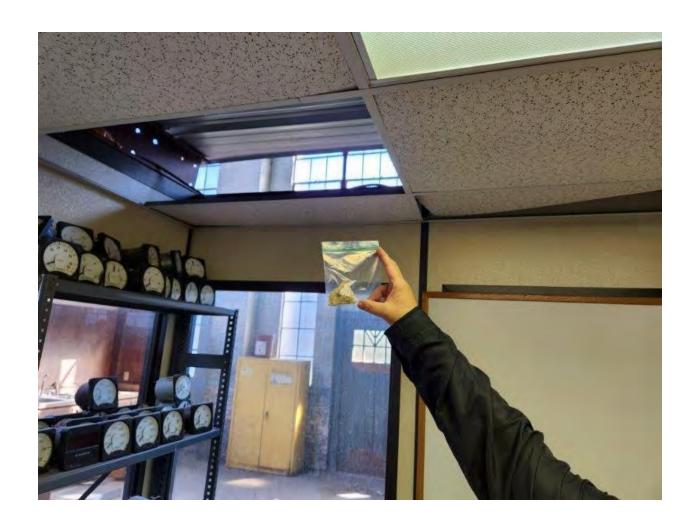








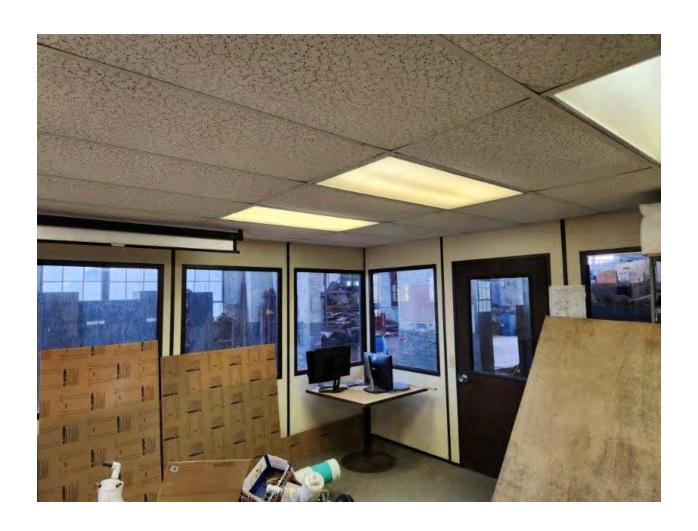


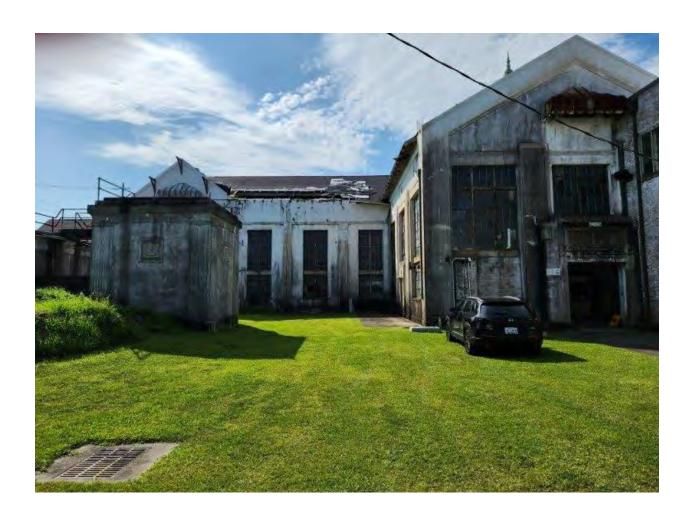




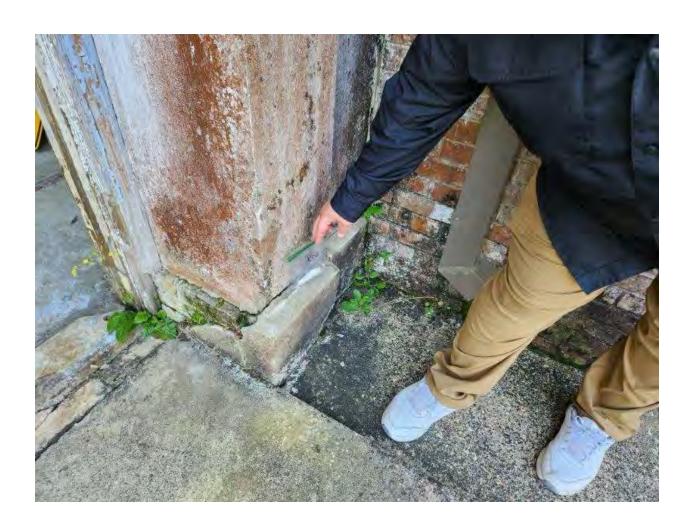




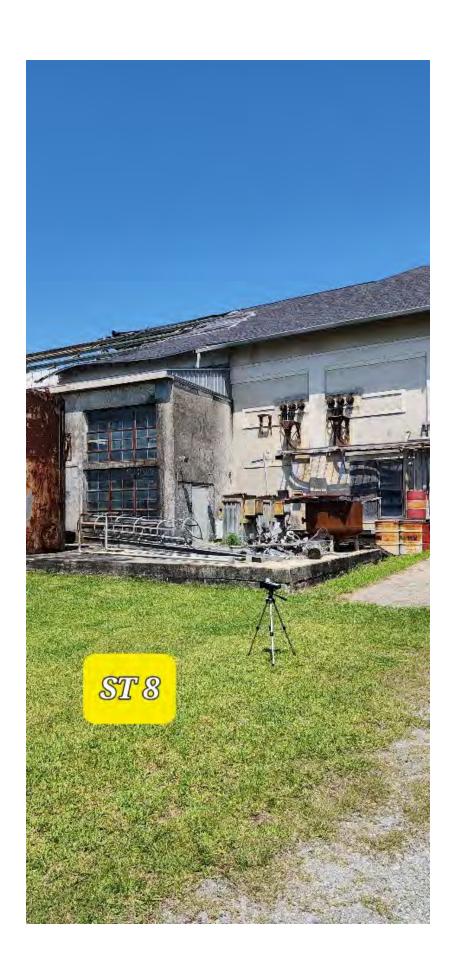
















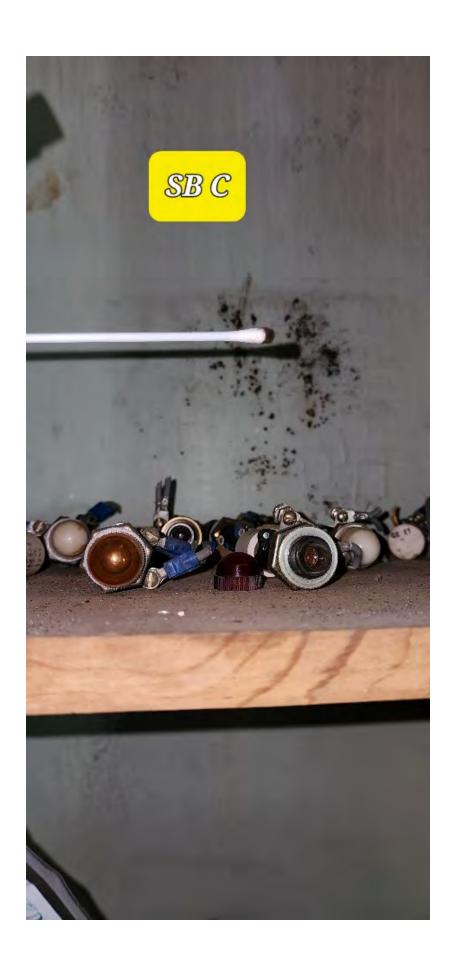




























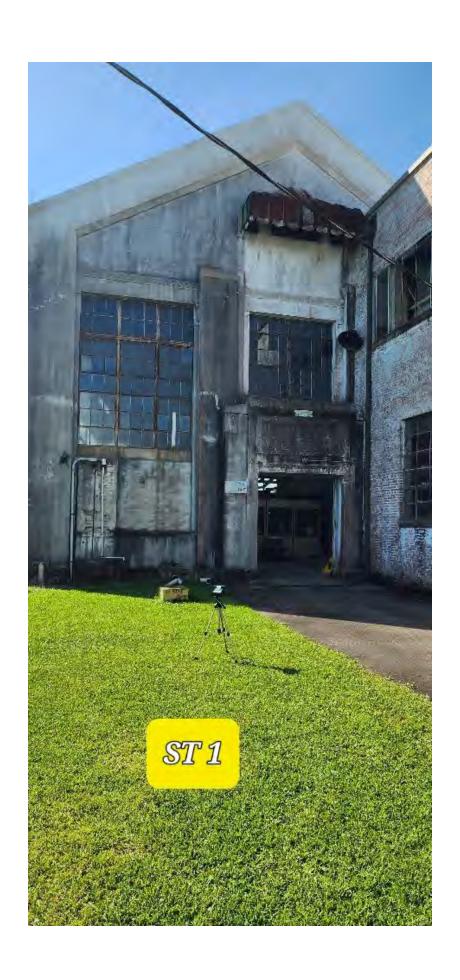














ATTACHMENT D LABORATORY REPORTS

Dedicated to Quality CA Labs, L.L.C.

12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634



NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Technical Environmental Services, Inc. Attn: James Clarke

5133 Taravella Rd Customer Project: Terrebonne Parish-Old Diesil Plant

Marrero, LA 70072 Reference #: CBR23053446 Date: 5/23/2023

Analysis and Method

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are preformed. Calibrated liquid refractive oils are used as liquid mouting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjugation with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated of asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found be PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one these disciplines .Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. This report is not covered by the scope of AIHA accreditation. Analysis performed at CA Labs, LLC 12232 Industriplex, Suite 32 Baton Rouge, LA 70809.

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CA Labs, L.L.C.

12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634



NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Overview of Project Sample Material Containing Asbestos

Customer Project:		Terrebonne Parish-Old Diesil Plant		CA Labs Project #:	CBR23053446
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types	
125	125-1	White and Gray Insulation	6% Chrysotile 4% Amosite	White an Brown In	d Gray Insulation sulation
126	126-1	White and Gray Insulation	6% Chrysotile 4% Amosite	White Co	urfaced White Compound Impound Beneath Tape d Yellow Fibrous Insulation
127	127-1	White and Gray Insulation	6% Chrysotile 4% Amosite	_	
J28	J28-1	Brown Insulation	5% Chrysotile	_	
J29	J29-1	Brown Insulation	5% Chrysotile	_	
J30	J30-1	Brown Insulation	5% Chrysotile	_	
K31	K31-1	Green Surfaced White Compound	3% Chrysotile	_	
K31	K31-2	White Compound Beneath Tape	3% Chrysotile	_	

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate gypsum - gypsum bi - binder or - organic ma - matrix mi - mica

ve - vermiculite

ot - other

pe - perlite qu - quartz

ite fg - fiberglass rtz mw - mineral wool wo - wollastinite

wo - wollastinite
ta - talc
sy - synthetic
ce - cellulose
br - brucite
ka - kaolin (clay)

pa - palygorskite (clay)

This report relates to the items tested. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, AIHA LAP, LLC, or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs' current terms and sale, condition of sale, including the company's standard warranty and limitations of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping or handling fee may be assessed for the return of any samples.

Dedicated to Quality

CA Labs, L.L.C.

12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634



NVLAP #200772-0 TDSHS #300370 **CDPHE #AL-18111** LELAP #03069

Overview of Project Sample Material Containing Asbestos

Customer Project:		Terrebonne Parish-Old Diesil Pla	nt	CA Labs Project #:	CBR23053446
Sample # L	ayer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent		ected Building ial Types

		Green Surfaced White	
K32	K32-1	Compound	3% Chrysotile
		White Compound Beneath	
K32	K32-2	Tape	3% Chrysotile
			-
		Green Surfaced White	
K33	K33-1	Compound	3% Chrysotile
			-
		White Compound Beneath	
K33	K33-2	Tape	3% Chrysotile
		Black and Yellow Fibrous	
O43	043-1	Insulation	2% Chrysotile
		Black and Yellow Fibrous	
O44	044-1	Insulation	2% Chrysotile
		Black and Yellow Fibrous	
O45	045-1	Insulation	2% Chrysotile

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate gypsum - gypsum bi - binder or - organic ma - matrix mi - mica ve - vermiculite

ot - other

pe - perlite

qu - quartz

fg - fiberglass mw - mineral wool wo - wollastinite

pa - palygorskite (clay)

ta - talc sy - synthetic ce - cellulose br - brucite ka - kaolin (clay)

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12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634



NVLAP #200772-0 TDSHS #300370 **CDPHE #AL-18111** LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Customer Project: Attn: James Clarke CA Labs Project #: Terrebonne Parish-Old Diesil CBR23053446 Technical Environmental Services, Inc. Plant 5133 Taravella Rd Marrero, LA 70072 5/23/2023 Date: Turnaround Time: 5 day Samples Received: 5/17/2023 Phone # 504-348-3098 **Date Of Sampling:** 5/15/2023 Fax# 504-348-3043 Purchase Order #: ENV-1658-23289 Analysts Physical Description of Asbestos type / Non-asbestos fiber Sample # Com Layer Homo-Non-fibrous type ment Subsample geneo calibrated visual type / percent / percent estimate percent us (Y/N)20% fg A01-1 Tan Ceiling Tile None Detected 50% ce 30% qu, ma, bi 20% fg A02 A02-1 Tan Ceiling Tile Ν None Detected 50% ce 30% qu, ma, bi 20% fg A03 A03-1 Tan Ceiling Tile Ν None Detected 50% ce 30% qu, ma, bi B04 B04-1 Gray Plaster None Detected 100% qu, ma, ca B05 B05-1 White and Gray Plaster None Detected 100% qu, ma, ca

> Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate gypsum - gypsum bi - binder or - organic

ma - matrix

B06-1 Gray Plaster

C07-1 Gray Plaster

mi - mica ve - vermiculite ot -other pe - perlite

qu - quartz

fg - fiberglass mw - mineral wool wo - wollastinite ta - talc

sy - synthetic

ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Zo Andriampenomanana

Analyst

Alicia Stretz

Senior Analyst

Laboratory Director Chris Williams

Chris Willes

100% qu, ma, ca

100% qu, ma, ca

B06

C07

None Detected

None Detected

Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
 Fire Damage no significant fiber damages effecting fibrous percentages

^{3.} Actinolite in association with Vermiculite

^{4.} Layer not analyzed - attached to previous positive layer and contamination is suspected

^{5.} Not enough sample to analyze

^{6.} Anthophyllite in association with Fibrous Talc

^{7.} Contamination suspected from other building materials

^{8.} Favorable scenario for water separation on vermiculite for possible analysis by another method

^{9. &}lt; 1% Result point counted positive

^{10.} TEM analysis suggested

Dedicated to Quality

CA Labs, L.L.C.

12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634



NVLAP #200772-0 TDSHS #300370 **CDPHE #AL-18111** LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: James Clarke **Customer Project:** CA Labs Project #: Terrebonne Parish-Old Diesil CBR23053446 Technical Environmental Services, Inc.

Plant 5133 Taravella Rd

Marrero, LA 70072

5/23/2023 Date:

Turnaround Time: 5 day Samples Received: 5/17/2023

Phone # 504-348-3098 **Date Of Sampling:** 5/15/2023

Fax# 504-348-3043 Purchase Order #: ENV-1658-23289

Analysts Physical Description of Asbestos type / Non-asbestos fiber Sample # Com Layer Homo-Non-fibrous type ment Subsample geneo calibrated visual type / percent / percent

> estimate percent us (Y/N)

C08 C08-1 Gray Plaster None Detected 100% qu, ma, ca

C09 C09-1 Gray Plaster None Detected 100% qu, ma, ca

D10 D10-1 Gray Mortar None Detected 100% qu, ma, ca

D11 D11-1 Gray Mortar None Detected 100% gu, ma, ca

D12 D12-1 Gray Mortar None Detected 100% qu, ma, ca

E13 E13-1 Gray Mortar None Detected 100% qu, ma, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)

Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for

identification of asbestos types by dispersion attaining / becke line method.

mi - mica ca - carbonate fg - fiberglass ce - cellulose gypsum - gypsum ve - vermiculite mw - mineral wool br - brucite bi - binder ot -other wo - wollastinite ka - kaolin (clay)

or - organic pe - perlite ta - talc pa - palygorskite (clay) Approved Signatories: ma - matrix qu - quartz sy - synthetic

None Detected

Zo Andriampenomanana Analyst

Laboratory Director Senior Analyst Alicia Stretz Chris Williams

100% qu, ma, ca

Chris Willes

E14-1 Gray Mortar

E14

Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
 Fire Damage no significant fiber damages effecting fibrous percentages

^{3.} Actinolite in association with Vermiculite

^{4.} Layer not analyzed - attached to previous positive layer and contamination is suspected

^{5.} Not enough sample to analyze

^{6.} Anthophyllite in association with Fibrous Talc

^{7.} Contamination suspected from other building materials

^{8.} Favorable scenario for water separation on vermiculite for possible analysis by another method

^{9. &}lt; 1% Result point counted positive

^{10.} TEM analysis suggested

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NVLAP #200772-0 TDSHS #300370 **CDPHE #AL-18111** LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Customer Project: Attn: James Clarke CA Labs Project #: Terrebonne Parish-Old Diesil CBR23053446 Technical Environmental Services, Inc.

Plant 5133 Taravella Rd

Marrero, LA 70072

5/23/2023 Date:

5/17/2023 Turnaround Time: 5 day Samples Received:

Phone # 504-348-3098 **Date Of Sampling:** 5/15/2023 Fax# 504-348-3043 Purchase Order #: ENV-1658-23289

Analysts Physical Description of Asbestos type / Non-asbestos fiber Sample # Com Layer Homo-Non-fibrous type

ment Subsample geneo calibrated visual type / percent / percent estimate percent us

(Y/N)

E15-1 Gray Mortar None Detected 100% qu, ma, ca F16 F16-1 Pink Sealant None Detected 100% qu, ma, ca

F17 F17-1 Pink Sealant None Detected 100% qu, ma, ca

F18 F18-1 Pink Sealant None Detected 100% gu, ma, ca

G19 G19-1 Gray Sealant None Detected 100% qu, ma, ca

G20 G20-1 Gray Sealant None Detected 100% qu, ma, ca

G21 G21-1 Gray Sealant None Detected 100% qu, ma, ca

> Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for

identification of asbestos types by dispersion attaining / becke line method.

mi - mica ca - carbonate fg - fiberglass ce - cellulose gypsum - gypsum ve - vermiculite mw - mineral wool br - brucite bi - binder ot -other wo - wollastinite ka - kaolin (clay) or - organic ta - talc

pe - perlite pa - palygorskite (clay) Approved Signatories: ma - matrix qu - quartz sy - synthetic

Zo Andriampenomanana Analyst

Laboratory Director Senior Analyst Alicia Stretz Chris Williams

Chris Willes

- Fire Damage significant fiber damage reported percentages reflect unaltered fibers
 Fire Damage no significant fiber damages effecting fibrous percentages
- 3. Actinolite in association with Vermiculite
- 4. Layer not analyzed attached to previous positive layer and contamination is suspected
- 5. Not enough sample to analyze

- 6. Anthophyllite in association with Fibrous Talc
- 7. Contamination suspected from other building materials
- 8. Favorable scenario for water separation on vermiculite for possible analysis by another method
- 9. < 1% Result point counted positive
- 10. TEM analysis suggested

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12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634



NVLAP #200772-0 TDSHS #300370 **CDPHE #AL-18111** LELAP #03069

Date:

5/23/2023

92% qu, ma, ca

Chris Willes

Laboratory Director

Chris Williams

Polarized Light Asbestiform Materials Characterization

Customer Info: Customer Project: Attn: James Clarke CA Labs Project #: Terrebonne Parish-Old Diesil CBR23053446 Technical Environmental Services, Inc.

Plant

5133 Taravella Rd Marrero, LA 70072

Turnaround Time: 5 day Samples Received: 5/17/2023

Phone # 504-348-3098 **Date Of Sampling:** 5/15/2023 Fax# 504-348-3043 ENV-1658-23289 Purchase Order #:

Analysts Physical Description of Asbestos type / Non-asbestos fiber Sample # Com Layer Homo-Non-fibrous type ment Subsample geneo calibrated visual type / percent / percent

estimate percent us (Y/N)

H22 H22-1 White Sealant None Detected 100% qu, ma, ca H23 H23-1 White Sealant None Detected 100% qu, ma, ca H24 H24-1 White Sealant None Detected 100% qu, ma, ca 6% Chrysotile 125 125-1 White and Gray Insulation 4% Amosite 90% qu, ma, ca 6% Chrysotile 126 White and Gray Insulation 4% Amosite 90% qu, ma, ca 6% Chrysotile 127 127-1 White and Gray Insulation 4% Amosite 90% qu, ma, ca

> Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for

identification of asbestos types by dispersion attaining / becke line method. mi - mica ca - carbonate fg - fiberglass ce - cellulose

gypsum - gypsum ve - vermiculite mw - mineral wool br - brucite bi - binder ot -other wo - wollastinite ka - kaolin (clay) or - organic pe - perlite ta - talc pa - palygorskite (clay)

Approved Signatories: ma - matrix qu - quartz sy - synthetic

5% Chrysotile

Zo Andriampenomanana

Alicia Stretz Analyst

J28-1 Brown Insulation

J28

Senior Analyst

3% fg

Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
 Fire Damage no significant fiber damages effecting fibrous percentages

^{3.} Actinolite in association with Vermiculite

^{4.} Layer not analyzed - attached to previous positive layer and contamination is suspected

^{5.} Not enough sample to analyze

^{6.} Anthophyllite in association with Fibrous Talc

^{7.} Contamination suspected from other building materials

^{8.} Favorable scenario for water separation on vermiculite for possible analysis by another method

^{9. &}lt; 1% Result point counted positive

^{10.} TEM analysis suggested

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CA Labs, L.L.C.

12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634



NVLAP #200772-0 TDSHS #300370 **CDPHE #AL-18111** LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Customer Project: Attn: James Clarke CA Labs Project #: Terrebonne Parish-Old Diesil CBR23053446 Technical Environmental Services, Inc. Plant 5133 Taravella Rd Marrero, LA 70072 5/23/2023 Date: Turnaround Time: 5 day Samples Received: 5/17/2023 Phone # 504-348-3098 **Date Of Sampling:** 5/15/2023 Fax# 504-348-3043 ENV-1658-23289 Purchase Order #: Analysts Physical Description of Asbestos type / Non-asbestos fiber Sample # Com Layer Homo-Non-fibrous type ment # Subsample geneo calibrated visual type / percent / percent estimate percent us (Y/N)J29 5% Chrysotile J29-1 Brown Insulation 3% fg 92% qu, ma, ca J30 J30-1 Brown Insulation 5% Chrysotile 3% fg 92% qu, ma, ca Green Surfaced White 97% qu, mi, bi, K31 K31-1 Compound Ν 3% Chrysotile White Compound Beneath K31-2 Tape 3% Chrysotile 97% qu, mi, ca K31-3 White Drywall with Paper None Detected 10% ce 90% qu, gy Green Surfaced White 97% qu, mi, bi, K32 K32-1 Compound 3% Chrysotile

> Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for

identification of asbestos types by dispersion attaining / becke line method. mi - mica

ca - carbonate fg - fiberglass ce - cellulose gypsum - gypsum ve - vermiculite mw - mineral wool br - brucite bi - binder ot -other wo - wollastinite ka - kaolin (clay) or - organic pe - perlite ta - talc pa - palygorskite (clay) ma - matrix

Approved Signatories: qu - quartz sy - synthetic

3% Chrysotile

Zo Andriampenomanana

White Compound Beneath

Alicia Stretz 6. Anthophyllite in association with Fibrous Talc

Laboratory Director Chris Williams

Chris Willen

97% qu, mi, ca

K32-2 Tape

Senior Analyst

Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
 Fire Damage no significant fiber damages effecting fibrous percentages

^{3.} Actinolite in association with Vermiculite

^{4.} Layer not analyzed - attached to previous positive layer and contamination is suspected

^{5.} Not enough sample to analyze

^{7.} Contamination suspected from other building materials

^{8.} Favorable scenario for water separation on vermiculite for possible analysis by another method

^{9. &}lt; 1% Result point counted positive

^{10.} TEM analysis suggested

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NVLAP #200772-0 TDSHS #300370 **CDPHE #AL-18111** LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Customer Project: Attn: James Clarke CA Labs Project #: Terrebonne Parish-Old Diesil CBR23053446

Technical Environmental Services, Inc. 5133 Taravella Rd

Plant

Marrero, LA 70072 5/23/2023 Date:

5/17/2023 Turnaround Time: 5 day Samples Received:

Phone # 504-348-3098 **Date Of Sampling:** 5/15/2023 Fax# 504-348-3043 ENV-1658-23289 Purchase Order #:

Analysts Physical Description of Asbestos type / Non-asbestos fiber Sample # Com Layer Homo-Non-fibrous type

ment Subsample geneo calibrated visual type / percent / percent estimate percent us

(Y/N)

K32-3 White Drywall with Paper None Detected 10% ce 90% qu, gy Green Surfaced White 97% qu, mi, bi, 3% Chrysotile K33 K33-1 Compound ca White Compound Beneath K33-2 Tape Y 3% Chrysotile 97% qu, mi, ca K33-3 White Drywall with Paper None Detected 10% ce 90% qu, qv L34 L34-1 Brown Ceiling Tile None Detected 100% ce L35 L35-1 Brown Ceiling Tile None Detected 100% ce

> Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for

identification of asbestos types by dispersion attaining / becke line method.

mi - mica ca - carbonate fg - fiberglass ce - cellulose gypsum - gypsum ve - vermiculite mw - mineral wool br - brucite bi - binder ot -other wo - wollastinite ka - kaolin (clay) ta - talc

or - organic pe - perlite pa - palygorskite (clay) Approved Signatories: ma - matrix qu - quartz sy - synthetic

None Detected

Zo Andriampenomanana Analyst

Laboratory Director Senior Analyst Alicia Stretz Chris Williams

Chris Willes

100% ce

L36-1 Brown Ceiling Tile

L36

Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
 Fire Damage no significant fiber damages effecting fibrous percentages

^{3.} Actinolite in association with Vermiculite

^{4.} Layer not analyzed - attached to previous positive layer and contamination is suspected

^{5.} Not enough sample to analyze

^{6.} Anthophyllite in association with Fibrous Talc

^{7.} Contamination suspected from other building materials

^{8.} Favorable scenario for water separation on vermiculite for possible analysis by another method

^{9. &}lt; 1% Result point counted positive

^{10.} TEM analysis suggested

Dedicated to Quality

CA Labs, L.L.C.

12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634



NVLAP #200772-0 TDSHS #300370 **CDPHE #AL-18111** LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Customer Project: Attn: James Clarke CA Labs Project #: Terrebonne Parish-Old Diesil CBR23053446 Technical Environmental Services, Inc.

Plant

5133 Taravella Rd

Marrero, LA 70072 5/23/2023 Date: 5/17/2023 Turnaround Time: 5 day Samples Received:

Phone # 504-348-3098 5/15/2023 **Date Of Sampling:**

Fax# 504-348-3043 ENV-1658-23289 Purchase Order #: Analysts Physical Description of Asbestos type / Sample # Com Layer Homo-Non-asbestos fiber Non-fibrous type

ment Subsample geneo calibrated visual type / percent / percent

estimate percent us (Y/N)

M37-M37 1 Black Shingle with Black Gravel None Detected 15% fg 85% qu, bi M38-M38 Black Shingle with Black Gravel None Detected 15% fg 85% qu, bi M39-M39 Black Shingle with Black Gravel None Detected 15% fg 85% qu, bi Gray Surfaced Black Felt and N40 N40-1 Tar None Detected 40% ce 60% qu, ma, bi Gray Surfaced Black Felt and N41 N41-1 Tar None Detected 40% ce 60% qu, ma, bi Gray Surfaced Black Felt and N42 N42-1 Tar None Detected 40% ce 60% qu, ma, bi Black and Yellow Fibrous

> Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for

identification of asbestos types by dispersion attaining / becke line method.

mi - mica ca - carbonate fg - fiberglass ce - cellulose gypsum - gypsum ve - vermiculite mw - mineral wool br - brucite bi - binder ot -other wo - wollastinite ka - kaolin (clay) ta - talc

or - organic pe - perlite pa - palygorskite (clay) Approved Signatories: ma - matrix qu - quartz sy - synthetic

2% Chrysotile

Zo Andriampenomanana Analyst

Laboratory Director Senior Analyst Alicia Stretz Chris Williams

20% qu, ma, bi

Chris Willes

Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
 Fire Damage no significant fiber damages effecting fibrous percentages

043-1 Insulation

- 3. Actinolite in association with Vermiculite
- 4. Layer not analyzed attached to previous positive layer and contamination is suspected
- 5. Not enough sample to analyze

043

- 6. Anthophyllite in association with Fibrous Talc
- 7. Contamination suspected from other building materials
- 8. Favorable scenario for water separation on vermiculite for possible analysis by another method

78% fg

- 9. < 1% Result point counted positive
- 10. TEM analysis suggested

Dedicated to Quality

Customer Info:

CA Labs, L.L.C.

12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

Attn: James Clarke

P48-1 Tan and Gray Mortar

Q49-1 Gray Concrete

Q50-1 Gray Concrete



NVLAP #200772-0 TDSHS #300370 **CDPHE #AL-18111** LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Project: CA Labs Project #: Terrebonne Parish-Old Diesil CBR23053446 Technical Environmental Services, Inc. Plant 5133 Taravella Rd Marrero, LA 70072 5/23/2023 Date: 5/17/2023 Turnaround Time: 5 day Samples Received: Phone # 504-348-3098 **Date Of Sampling:** 5/15/2023 Fax# 504-348-3043 ENV-1658-23289 Purchase Order #: Analysts Physical Description of Asbestos type / Sample # Com Layer Homo-Non-asbestos fiber Non-fibrous type ment Subsample geneo calibrated visual type / percent / percent estimate percent us (Y/N)Black and Yellow Fibrous 044 044-1 Insulation 2% Chrysotile 78% fg 20% qu, ma, bi Black and Yellow Fibrous O45 045-1 Insulation 2% Chrysotile 78% fg 20% qu, ma, bi P46 P46-1 Tan and Gray Mortar Ν None Detected 100% qu, ma, ca P47 P47-1 Tan and Gray Mortar None Detected 100% qu, ma, ca

> Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

mi - mica ca - carbonate fg - fiberglass ce - cellulose gypsum - gypsum ve - vermiculite mw - mineral wool br - brucite bi - binder ot -other wo - wollastinite ka - kaolin (clay) or - organic pe - perlite ta - talc

pa - palygorskite (clay) Approved Signatories: ma - matrix qu - quartz sy - synthetic

None Detected

None Detected

None Detected

Zo Andriampenomanana Analyst

Laboratory Director Chris Williams

Chris Willes

100% qu, ma, ca

100% qu, ma, ca

100% qu, ma, ca

P48

Q49

Q50

Senior Analyst Alicia Stretz

Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
 Fire Damage no significant fiber damages effecting fibrous percentages

^{3.} Actinolite in association with Vermiculite

^{4.} Layer not analyzed - attached to previous positive layer and contamination is suspected

^{5.} Not enough sample to analyze

^{6.} Anthophyllite in association with Fibrous Talc

^{7.} Contamination suspected from other building materials

^{8.} Favorable scenario for water separation on vermiculite for possible analysis by another method

^{9. &}lt; 1% Result point counted positive

^{10.} TEM analysis suggested

Dedicated to Quality

CA Labs, L.L.C.

12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634



NVLAP #200772-0 TDSHS #300370 **CDPHE #AL-18111** LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: James Clarke **Customer Project:** CA Labs Project #:

Terrebonne Parish-Old Diesil CBR23053446 Technical Environmental Services, Inc. Plant

5133 Taravella Rd

Marrero, LA 70072 5/23/2023 Date:

Turnaround Time: 5 day Samples Received: 5/17/2023

Phone # 504-348-3098 **Date Of Sampling:** 5/15/2023

Fax # 504-348-3043 Purchase Order #: ENV-1658-23289 Sample # Analysts Physical Description of Asbestos type / Non-asbestos fiber Com Layer Homo-Non-fibrous type

ment # Subsample geneo calibrated visual type / percent / percent

estimate percent us (Y/N)

Q51-1 Gray Concrete None Detected 100% qu, ma, ca

> Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for

identification of asbestos types by dispersion attaining / becke line method. mi - mica ca - carbonate fg - fiberglass ce - cellulose gypsum - gypsum ve - vermiculite mw - mineral wool br - brucite bi - binder ot -other wo - wollastinite ka - kaolin (clay) ta - talc

or - organic pe - perlite pa - palygorskite (clay) Approved Signatories: ma - matrix qu - quartz sy - synthetic

Zo Andriampenomanana

6. Anthophyllite in association with Fibrous Talc

7. Contamination suspected from other building materials

8. Favorable scenario for water separation on vermiculite for possible analysis by another method

Senior Analyst Alicia Stretz

Chris Willia

Laboratory Director

Chris Williams

9. < 1% Result point counted positive

5. Not enough sample to analyze

3. Actinolite in association with Vermiculite 4. Layer not analyzed - attached to previous positive layer and contamination is suspected

Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
 Fire Damage no significant fiber damages effecting fibrous percentages

10. TEM analysis suggested

C.A. Labs, LLC. 12232 Industriplex Suite 32

Baton Rouge, LA 70809

Phone: 225-751-5632 Fax: 225-751-5634 Mobile: 225-993-3471

Signature / Date / Time

Chain of Custody

Client Name:		TES t	1 <i>1</i> .	CA	Labs job #	CBR 2	3305341	16 100 000
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fax number:	<u></u>	<u> </u>	<u> </u>	Ser	nd Reports to	o: Karie	Hann	
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Contact:		12.	ofmann		orts Resul		FAX_	VERBAL
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EPA Level II		8 hour	Interim		8 hour	Cyclex-d	cassettes	8 hour
Drinking Wat	er	16 hour			16 hour	Air-o-cel	l cassettes	16 hour
Wipe		24 hour	AHERA		24 hour	Anderso	n cultures	24 hour
Micro-vac		2 days			2 days	Bulk/sw	ab cultures	s 2 days
NIOSH 7402		3 days	Point Cou	nt -	3 days	Bacteria	cultures	3 days
Chatfield Bull	k	5 days	(NESHAP	S)	(5 days)	PCM: N	OSH 7400	5-10 days
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Lead: Matrix:	R	t Chine		A ±	VIT:	VI7.		BOT D
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Signature / Date / Time



12232 Industriplex Suite 32 Baton Rouge, LA 70809

Phone: 225-751-5632 Fax: 225-751-5634

After hours Mobile: 225-993-3471

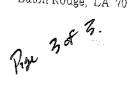
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12232 Industriplex Suite 32 Baton Rouge, LA 70809

Phone: 225-751-5632 Fax: 225-751-5634 After hours Mobile: 225-993-3471



Client Name:	i i	CA TARASTA	over and a			
Client Address:		CA Labs job # CBR 23053446				
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EMSL Analytical, Inc.

18369 Petroleum Drive, Baton Rouge, LA 70809

(225) 755-1920 / (225) 755-1989

http://www.EMSL.com batonrougelab@emsl.com CustomerPO: ProjectID:

EMSL Order:

252302458 TECH55

CustomerID:

Katie Hofmann Technical Environmental Service, Inc. PO Box 1601 Marrero, LA 70073

Phone: (504) 348-3098 Fax: (504) 348-3043 Received: 5/17/2023 09:50 AM

Collected: 5/16/2023

Project: ENV 1658-23289

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

Client Sample Descript	t ion Lab ID Colle	cted Analyzed	Weight	Lead Concentration
01	252302458-0001 5/16/	2023 5/22/2023	0.2501 g	0.11 % wt
	Site: EXT WALL F.N.			
02	252302458-0002 5/16/	2023 5/22/2023	0.2502 g	14 % wt
	Site: EXHAUST F.N.			
03	252302458-0003 5/16/	2023 5/22/2023	0.2511 g	0.028 % wt
	Site: EXT. WALL F.N.			
04	252302458-0004 5/16/	2023 5/22/2023	0.2507 g	13 % wt
	Site: EXT DOOR F.E.			
05	252302458-0005 5/16/	2023 5/22/2023	0.2509 g	5.8 % wt
	Site: EXT Door Frame	F.S.		
06	252302458-0006 5/16/	2023 5/22/2023	0.2552 g	0.058 % wt
	Site: Cooling Water Lin	e F.N.		
)7	252302458-0007 5/16/	2023 5/22/2023	0.2518 g	0.27 % wt
	Site: EXT. Window FE	§N		
08	252302458-0008 5/16/	2023 5/22/2023	0.2510 g	<0.080 % wt
	Site: INT. WALL F.S.			
9	252302458-0009 5/16/	2023 5/22/2023	0.2509 g	1.6 % wt
	Site: INT. WALL F.S.			
10	252302458-0010 5/16/	2023 5/22/2023	0.2504 g	0.84 % wt
	Site: INT. WALL UPST	AIRS F.N.		
11	252302458-0011 5/16/	2023 5/22/2023	0.2567 g	0.57 % wt
	Site: INT. WALL UPST	AIRS F.S.		
12	252302458-0012 5/16/	2023 5/22/2023	0.2501 g	1.3 % wt
	Site: INT. WALL UPST	AIRS F.S.		
13	252302458-0013 5/16/	2023 5/22/2023	0.2510 g	5.7 % wt
	Site: HAND RAIL			
14	252302458-0014 5/16/	2023 5/22/2023	0.2511 g	0.95 % wt
	Site: VAULE Assembly	UPSTAIRS		
15	252302458-0015 5/16/	2023 5/22/2023	0.2516 g	3.4 % wt
	Site: Yellow RAMP RA	L		

Martiana Beach, Laboratory Manager or other approved signatory

Winter Beach

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

specifications unless otherwise noted.

* Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.008% wt based on the minimum sample weight per our SOP. "<" (less than) result signifies the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950; A2LA Accredited - Certificate #2845.03

Report Amended: 05/24/2023 08:50:00 Replaces the Inital Report 05/23/2023 13:09:23. Reason Code: Client-Change to Project



EMSL Analytical, Inc.

18369 Petroleum Drive, Baton Rouge, LA 70809 (225) 755-1920 / (225) 755-1989

http://www.EMSL.com

batonrougelab@emsl.com

Katie Hofmann Technical Environmental Service, Inc. PO Box 1601 Marrero, LA 70073

Phone: (504) 348-3098 Fax: (504) 348-3043 Received: 5/17/2023 09:50 AM

EMSL Order:

CustomerID:

CustomerPO:

ProjectID:

252302458

TECH55

Collected: 5/16/2023

Project: ENV 1658-23289

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

Client Sample De	es cription Lab ID Collected Analyzed	Weight	Lead Concentration
16	252302458-0016 5/16/2023 5/22/2023	0.2545 g	0.27 % wt
	Site: Water Supply Pipe		
17	252302458-0017 5/16/2023 5/22/2023	0.2517 g	0.28 % wt
	Site: Water Supply Pipe		
18	252302458-0018 5/16/2023 5/22/2023	0.2532 g	1.1 % wt
	Site: EXT., Door Near S/E Corner		
19**	252302458-0019 5/16/2023 5/22/2023	0.1225 g	0.022 % wt
	Site: Storage Door		
20	252302458-0020 5/16/2023 5/22/2023	0.2515 g	7.0 % wt
	Site: Roof Truse		
21	252302458-0021 5/16/2023 5/22/2023	0.2501 g	0.66 % wt
	Site: Concrete Floor		
22	252302458-0022 5/16/2023 5/22/2023	0.2506 g	0.53 % wt
	Site: OLA Generator #8		
23	252302458-0023 5/16/2023 5/22/2023	0.2509 g	26 % wt
	Site: SAFTEY Railing by Gen.		
24	252302458-0024 5/16/2023 5/22/2023	0.2523 g	0.27 % wt
	Site: Circuit Panel S/W Corner		
25	252302458-0025 5/16/2023 5/22/2023	0.2507 g	19 % wt
	Site: INT. Water TANK		
26	252302458-0026 5/16/2023 5/22/2023	0.2501 g	5.5 % wt
	Site: GRATE VALVE on Gen.		
27	252302458-0027 5/16/2023 5/22/2023	0.2542 g	5.6 % wt
	Site: Air TANK OLA Gen.		
28	252302458-0028 5/16/2023 5/22/2023	0.2513 g	0.21 % wt
	Site: I Beam S/W (BOT)		
29	252302458-0029 5/16/2023 5/22/2023	0.2539 g	0.16 % wt
	Site: I Beam S/W (Top)		
30	252302458-0030 5/16/2023 5/22/2023	0.2522 g	2.9 % wt
	Site: S/W Metal Door		

Martiana Beach, Laboratory Manager or other approved signatory

Winter Beach

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specifications unless otherwise noted.

* Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.008% wt based on the minimum sample weight per our SOP. "<" (less than) result signifies the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950; A2LA Accredited - Certificate #2845.03

Report Amended: 05/24/2023 08:50:00 Replaces the Inital Report 05/23/2023 13:09:23. Reason Code: Client-Change to Project



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(225) 755-1920 / (225) 755-1989

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batonrougelab@emsl.com

Katie Hofmann Technical Environmental Service, Inc. PO Box 1601 Marrero, LA 70073

Phone: (504) 348-3098 Fax: (504) 348-3043 Received: 5/17/2023 09:50 AM

EMSL Order:

CustomerID:

CustomerPO:

ProjectID:

252302458

TECH55

Collected: 5/16/2023

Project: ENV 1658-23289

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

Client Sample Descripti	ion Lab ID Collected Analyzed	Weight	Lead Concentration
31	252302458-0031 5/16/2023 5/22/2023	0.2523 g	0.26 % wt
	Site: Oil Filter TANK Gen. 9		
32	252302458-0032 5/16/2023 5/22/2023	0.2515 g	9.8 % wt
	Site: Piping By New Gen. 9		
33	252302458-0033 5/16/2023 5/22/2023	0.2517 g	6.0 % wt
	Site: Piping By New Gen. 9		
34	252302458-0034 5/16/2023 5/22/2023	0.2514 g	4.3 % wt
	Site: Piping By New Gen. 9		
35	252302458-0035 5/16/2023 5/22/2023	0.2541 g	0.17 % wt
	Site: CONTROL PANEL/BOX		
36	252302458-0036 5/16/2023 5/22/2023	0.2511 g	0.24 % wt
	Site: EXHAUST GEN. 9		
37	252302458-0037 5/16/2023 5/22/2023	0.2508 g	0.37 % wt
	Site: GENERATOR 9 (BOTTOM)		
38	252302458-0038 5/16/2023 5/22/2023	0.2504 g	0.42 % wt
	Site: INT WALL (North)		
39	252302458-0039 5/16/2023 5/23/2023	0.2502 g	3.8 % wt
	Site: EXHAUST Generator #12		
40	252302458-0040 5/16/2023 5/23/2023	0.2506 g	0.11 % wt
	Site: CONTROL PANEL GEN #12		
41	252302458-0041 5/16/2023 5/23/2023	0.2514 g	0.27 % wt
	Site: Turbine Gen #11		
42	252302458-0042 5/16/2023 5/23/2023	0.2501 g	19 % wt
	Site: Water tank-LOFT.		
43	252302458-0043 5/16/2023 5/23/2023	0.2508 g	0.21 % wt
	Site: Textured WALL-Partition		
44	252302458-0044 5/16/2023 5/23/2023	0.2550 g	1.3 % wt
	Site: ROOF WOOD BEAMS		

^{**} Data reported may not reach applicable analytical sensitivity due to insufficient sample weight submitted. Suggested weight for analysis is 0.2-0.25g.

Martiana Beach, Laboratory Manager or other approved signatory

Wwittan Beach

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

specifications unless otherwise noted.

* Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.008% wt based on the minimum sample weight per our SOP. "<" (less than) result signifies the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950; A2LA Accredited - Certificate #2845.03

Report Amended: 05/24/2023 08:50:00 Replaces the Inital Report 05/23/2023 13:09:23. Reason Code: Client-Change to Project



Lead (Pb) Chain of Custody EMSL Order ID (Lab Use Only):

PHONE: () FAX: (`)

Company: TECHNICAL ENVIRONMENTAL SERVICES, INC.			EMSL-Bill to:					
Street: 5133 TARAVELLA RD			Third Party Billing requires written authorization from third party					
City: MARRERO State/Province: LA			Zip/Postal Code: 70072 Country: USA					
Report To (Name): KATIE HO		Telephone #: 504.348.3098						
Email Address: KHOFNAM @-	TESC AUSULT. (0		<u></u>		1.	urchase Or	rdor:	
Project Name/Number: 6N 165			rovide Results:	П Бох			uei.	
U.S. State Samples Taken:	0- 4-40 (-	•		7		(T P	
	ırnaround Time (TA		oles: Commer		ов 🗀	Residential	/ lax Exempt	
	Hour 48 Hour		2 Hour/		Ι Π	1 Week	2 Week	
	d in accordance with EMS	. —	// W/ I	-	_		2 Week	
Matrix	Method		Instrume			orting Lim	it Check	
Chips % by wt mg/cm² _ ppm (mg/kg)	SW846-7000E	3	Flame Atomic At	bsorption		0.01%		
Air	NIOSH 7082		Flame Atomic At	osorption		4 µg/filter		
	NIOSH 7105		Graphite Furna			03 µg/filter		
	NIOSH 7300M/NIOS	H 7303	ICP-OES	3 .	0	.5 μg/filter		
Wipe* ASTM	SW846-7000E	3	Flame Atomic Al	bsorption	1	0 μg/wipe		
non ASTM fif no box checked, non-ASTM Wipe assumed	SW846-6010B o	er C	ICP-OES	5	1.	.0 μg/wipe		
TCLP	SW846-1311/7000B/S		Flame Atomic At	-		mg/L (ppm		
	SW846-1311/SW846-6		ICP-OES			mg/L (ppm		
SPLP '	SW846-1312/7000B/S		Flame Atomic At	•		mg/L (ppm		
	SW846-1312/SW846-6010B or C 22 CCR App. II, 7000B/7420		ICP-OES Flame Atomic Absorption		0.1 mg/L (ppm)			
TTLC	22 CCR App. II, 5W846-6		ICP-OES			ng/kg (ppm		
-	22 CCR App. II, 7000B/7420		Flame Atomic Absorption		2 mg/kg (ppm) 0.4 mg/L (ppm)			
STLC	22 CCR App. II, SW846-6010B or C		ICP-OES		0.1 mg/L (ppm)			
Soil	SW846-7000B		Flame Atomic Absorption		40 mg/kg (ppm)			
	SW846-6010B o	r C	ICP-OES			ng/kg (ppm)		
	SM3111B/SW846-7	7000B	Flame Atomic At	sorption		mg/L (ppm		
Wastewater Unpreserved ☐ Preserved with HNO₃ pH < 2 ☐	EPA 200.9		Graphite Furnace AA		0.003 mg/L (ppm)			
Treserved with 11403 pit > 2	EPA 200.7		ICP-OES		0.020 mg/L (ppm)			
Drinking Water Unpreserved	EPA 200.8		ICP-MS		0.001 mg/L (ppm)			
Preserved with HNO₃ pH < 2 ☐	EPA 200.9		Graphite Furnace AA		0.003 mg/L (ppm)			
	EPA 200.5		ICP-OES		0.003 mg/L (ppm)		'' 	
TSP/SPM Filter	40 CFR Part 50 40 CFR Part 50		ICP-OES Graphite Furnace AA		12 µg/filter 3.6 µg/filter		- - 	
Other:	10 01 11 1110		Crapinto i ante	100 7 0 1	- 3	.o pg/iitei		
Name of Sampler:	_	Siana	ture of Sample	<u>.</u>	<u> </u>			
Sample # Location		Joigila	Volume/Are			Date/Tim	ne Sampled	
	F, 10.		. 1) j					
O) EXTENAL	C A I	<u> </u>				5/16/2		
O'& EXHAUST	r. //.		<u>v</u>			<u> </u>	الل 🔍	
Client Sample #s			Tota	al # of Sa	mples	s: 44	(KD)	
Relinquished (Client):	Relinquished (Client): Date:			Time:		5:0	Wpm.	
Received (Lab):	Date:	5/	17/23	Time:		9:50	an	
Comments:	, ,		· • • • • • • • • • • • • • • • • • • •		•			
INVOICE TO: BADAMS	@TESCONSULT.	СОМ						

Controlled Document --- COC-25 Lead (Pb) R8-- 7/19/2017

Page 1 of __

E 7966 3199 4124



LEAD (Pb) CHAIN OF CUSTODY EMSL ORDER ID (Lab Use Only):

PHONE: () FAX: ()

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

Sample #	Location	Volume/Area	Date/Time Sampled
03	Ext. WALL F.N.	\'\\\1	5+6-23 Am
04	BYT Down F. E.		
05	EXT DOOR FRAME F.S.		
06	Cooling Warer Line F.N.		
07	Ext. Window PEON		
08	INT. WALL F.S.		
09	INT, WALL F.S.		
10	INT, WALL PSTAIRS		
11	INTI WALL UPSTAIRS INTI WALL F.S. INTI WALL F.S. THTI WALL F.S. HAW RAIL UPSTAIRS		
12	INT WALL OF S.		
13	HAND RAIL UPSTRIRS		
14	VAULE ASSEMBLY UPSTRIES		
15	Vellow RAMP RAIL		
16	Water Supply P. p.s		
17	WATER Supply Pipe		
13	EYT. DOOR SIE COINER.		
19	Roof Trust Storap		
80	EYT. DOOR STE CONNER. ROOF Trust DOOR ROOF Truse	1">1"	5-1623 Am
Comments/Sp	ecial Instructions:		
·— -	· 		

OrderID: 252302458



LEAD (Pb) CHAIN OF CUSTODY

EMSL Analytical, Inc.
18369 Petroleum Drive

EMSL ORDER ID (Lab Use Only):

Baton Rouge, LA 70809 PHONE; (225) 755-1920

FAX: (225) 755-1989

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

Sample #	Location	Volume/Area	Date/Time Sampled
21	Concrete Floor	" \\	5-16-23 PM
22	OLA Generator # 6)
23	SAFTEY RAILING BY		
94	Circuit Panel Slavon		
25	INT. WATER TRUK.		
26	GATE VAlve on Gen.		
27	AIV TANK OLD GEN.		
20	I Besn SlW(Bur		
29	I Boam S/WGOD		
30-	5/W Mem Door		
31	Oil FILTER TRAIL GEN. 9	·	İ
32	Piping By New Gen. 9		
33			
34			14, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,
3,5	CONTROL PANEL BOX		
34	EXHAUST GEN. 9		
37	Generatur 9 (Bottom)		1
38	INT WALL (NOTTH)	1"×1"	5-16-0 PM
Comments/Sp	pecial Instructions:		
	601, Мапгего, LA, 70073, US Phone: 5043483098 Email· npooley@tesconsult.com Purchase Order.		

pages '

OrderID: 252302458



LEAD (Pb) CHAIN OF CUSTODY

EMSL Analytical, Inc.
18369 Petroleum Drive

EMSL ORDER ID (Lab Use Only):

Baton Rouge, LA 70809

PHONE: (225) 755-1920 FAX: (225) 755-1989

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

Sample #	Location	Volume/Area	Date/Time Sampled
39	EYHNGT Me. Generatur#12	\"×\"	5-16-23 Pm
40	CONTROL PANEL GEN # 12		
41	Turbine Gen # 11		
42	WATERTANK - LOFT.		
43	Texterres WALL-PARTITION		يىل
44	Rook Wood Besus	1">1"	5-16-23 Pm
		-	
	_		
si,			
		·	
	,		
			-
Comments/Sp	ecial Instructions:	<u>-</u>	<u>-</u>
	601, Marrero, LA, 70073, US Phone: 5043483098 Email: npooley@tesconsult.com Purchase Order:		



Report for:

Bradley Bigner Technical Environmental Services 5133 Taravella Rd. Marrero, LA 70072

Eurofins J3 Resources, Inc.

Regarding: Project: ENV 1558-23284; Houma Diesel Plant

EMĹ ID: 3262946

Approved by:

Dates of Analysis:

Spore trap analysis: 05-22-2023

Lab Director Scott Ward

Service SOPs: Spore trap analysis (EM-MY-S-1038)

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the samples as received and tested. Information supplied by the client which can affect the validity of results: sample air volume.

Eurofins J3 Resources, Inc. ("the Company"), a member of the Eurofins Built Environment Testing group of companies, shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Eurofins J3 Resources, Inc.

3113 Red Bluff Road, Pasadena, TX 77503 713-290-0223 www.eurofinsus.com/Built

Client: Technical Environmental Services

C/O: Bradley Bigner

Re: ENV 1558-23284; Houma Diesel Plant

Date of Submittal: 05-17-2023 Date of Receipt: 05-17-2023 Date of Report: 05-22-2023

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	ST-1:		ST-2:		ST-3:		ST-4:	
	Outside North		Interior Restroom		Training Room		Upstairs Storage	
Comments (see below)	A		В		C		D	
Lab ID-Version‡:	15822864-1		15822865-1		15822866-1		15822867-1	
Analysis Date:	05/22/2023		05/22/2023		05/22/2023		05/22/2023	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	7	47		·	2	13	6	40
Ascospores	8	210	15	400	7	190	10	270
Aureobasidium	1	7					3	20
Basidiospores	113	3,000	118	3,100	31	830	289	7,700
Bipolaris/Drechslera group							1	7
Cercospora	48	320	5	33	3	20	2	13
Chaetomium			89	590			119	790
Cladosporium	1,586	11,000	93	620	240	1,600	10	270
Curvularia	18	120	2 13		3	20	3	20
Epicoccum					2	13		
Fusarium	2	13						
Ganoderma	1	7	4	27				
Nigrospora	2	13	1	7			5	33
Other brown					2	13		
Other colorless	4	27						
Penicillium/Aspergillus types†	20	270	43	290	14	93	67	1,800
Peronospora	1	7						
Pithomyces	1	7			2	13	2	13
Polythrincium	1	7	1	7				
Pyricularia	4	27						
Rusts	10	67			1	7		
Smuts, Periconia, Myxomycetes	59	390	8	53	3	20		
Spegazzinia	1	7						
Stachybotrys							2	13
Torula							10	67
Zygomycetes	20	130	30	200	3	20	1	7
Background debris (1-4+)††	2+		3+		4+		> 4+	
Hyphal fragments/m3	47		60		40		230	
Pollen/m3	< 7		53		67		60	
Skin cells (1-4+)	< 1+		1+		2+		1+	
Sample volume (liters)	150		150		150		150	
§ TOTAL SPORES/m3		16,000		5,400		2,900		11,000

Comments: A) 1547 of the raw count *Cladosporium* spores were present as nineteen clumps of 188,171,136,122,119,103,96,82,78,72, 68,65,59,57,50, 43, 33,29,26, and 22. 13 of the raw count *Penicillium*/ Aspergillus type spores were present as a single clump. B) 43 of the raw count Penicillium/Aspergillus type spores were present as a single clump. 93 of the raw count Cladosporium spores were present as two clumps of 78 and 15. C) 238 of the raw count Cladosporium spores were present as six clumps of 88, 42,38,36, 19, and 15. D) Large macroscopic particulates preventing proper mounting of sample media. Reported results may be low.

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.

The analytical sensitivity is the spores/m³ divided by the raw count, expressed in spores/m³, per spore and per sample.

Eurofins J3 Resources, Inc.

The spores of Aspergillus and Penicillium (and others such as Acremonium, Paecilomyces) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

^{††}Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory. ‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

[§] Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

Eurofins J3 Resources, Inc.

3113 Red Bluff Road, Pasadena, TX 77503 713-290-0223 www.eurofinsus.com/Built

Client: Technical Environmental Services

C/O: Bradley Bigner

Re: ENV 1558-23284; Houma Diesel Plant

Date of Submittal: 05-17-2023 Date of Receipt: 05-17-2023 Date of Report: 05-22-2023

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:		T-5:		T-6:		T-7: r Room	ST-8: Outside South	
Comments (see below)	E E		Downstairs Storage F		G		H	
,	_		-					
Lab ID-Version‡:	15822868-1		15822869-1		15822870-1		15822871-1	
Analysis Date:	05/2	05/22/2023		2/2023	05/22/2023		05/22/2023	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	2	13	3	20	5	33	11	73
Ascospores	12	320	5	130	7	190	7	190
Aureobasidium	6	40						
Basidiospores	149	4,000	62	1,700	73	1,900	95	2,500
Bipolaris/Drechslera group	2	13	1	7	2	13	22	150
Cercospora	10	67	17	110	9	60	13	87
Chaetomium	1	7	1	7				
Cladosporium	429	3,000	117	860	164	1,100	331	2,500
Curvularia	1	7	4	27	4	27	44	290
Epicoccum	1	7	1	7	1	7	11	73
Ganoderma			2	13	2	13		
Nigrospora	6	40	10	67	1	7	12	80
Other brown			2	13			1	7
Other colorless	1	7						
Penicillium/Aspergillus types†	45	300						
Peronospora							40	270
Pithomyces			1	7			103	690
Polythrincium					5	33	2	13
Pyricularia					2	13		
Rusts							1	7
Smuts, Periconia, Myxomycetes	7	47	1	7	4	27	175	1,200
Spegazzinia							7	47
Stachybotrys			1	7				
Tetraploa							1	7
Torula			4	27			85	570
Zygomycetes	1	7			4	27	2	13
Background debris (1-4+)††	4+		4+		2+		2+	_
Hyphal fragments/m3	13		13		< 7		53	
Pollen/m3	80		280		13		20	
Skin cells (1-4+)	1+		< 1+		< 1+		< 1+	
Sample volume (liters)	150		150		150		150	
§ TOTAL SPORES/m3		7,800		3.000		3,500		8,700

Comments: E) 422 of the raw count Cladosporium spores were present as nine clumps of 22, 33,38,43,44,48, 55, 65, 74. 45 of the raw count *Penicillium/Aspergillus* type spores were present as a single clump. F) Large macroscopic particulates preventing proper mounting of sample media. Reported results may be low. 113, 38, G) 164, of the raw count *Cladosporium* spores were present as five clumps of 21, 26,34, 36, and 47. H) 318 of the raw count *Cladosporium* spores were present as eight clumps of 61,54,47,38,34, 31,29, and 24.

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.

The analytical sensitivity is the spores/m³ divided by the raw count, expressed in spores/m³, per spore and per sample.

The spores of Aspergillus and Penicillium (and others such as Acremonium, Paecilomyces) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

^{††}Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory. \ddagger A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

[§] Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

3113 Red Bluff Road, Pasadena, TX 77503 713-290-0223 www.eurofinsus.com/Built

Client: Technical Environmental Services

C/O: Bradley Bigner

Re: ENV 1558-23284; Houma Diesel Plant

Date of Submittal: 05-17-2023 Date of Receipt: 05-17-2023 Date of Report: 05-22-2023

MoldRANGETM: Extended Outdoor Comparison

Outdoor Location: ST-1, Outside North

Fungi Identified	Outdoor	Typica	al Outdoo	or Data by	Date†	Typical Outdoor Data by Location:			
	data	Month: May			State: LA				
	spores/m3	low	med	high	freq %	low	med	high	freq %
Generally able to grow indoors*									
Alternaria	47	7	27	320	40	7	27	330	42
Aureobasidium	7	5	13	270	< 1	-	-	-	< 1
Bipolaris/Drechslera group	-	7	13	160	11	7	13	160	25
Chaetomium	-	7	13	220	10	7	13	220	4
Cladosporium	11,000	27	430	6,700	90	27	530	9,000	91
Curvularia	120	7	20	270	10	7	33	1,200	48
Epicoccum	-	7	27	270	20	7	20	270	24
Fusarium	13	7	13	210	2	7	27	220	9
Ganoderma	7	13	53	210	< 1	7	28	880	< 1
Nigrospora	13	7	13	110	8	7	27	320	33
Other brown	-	7	22	150	27	7	13	130	23
Other colorless	27	7	27	440	4	7	27	550	7
Penicillium/Aspergillus types	270	13	160	2,000	55	26	240	4,000	66
Pithomyces	7	7	13	130	5	7	13	270	19
Polythrincium	7	7	13	190	3	7	20	220	4
Stachybotrys	-	7	13	530	2	7	13	250	1
Torula	-	7	14	180	8	7	20	220	12
Zygomycetes	130	7	17	53,000	< 1	-	-	-	< 1
Seldom found growing indoors**									
Ascospores	210	13	320	9,900	79	27	370	9,000	91
Basidiospores	3,000	13	390	16,000	89	29	750	30,000	95
Cercospora	320	7	27	200	10	7	40	480	35
Peronospora	7	7	13	80	< 1	7	13	82	1
Pyricularia	27	7	20	320	4	7	21	690	10
Rusts	67	7	22	270	17	7	13	180	11
Smuts, Periconia, Myxomycetes	390	7	53	1,000	65	7	53	690	72
Spegazzinia	7	7	13	150	1	7	13	930	6
Tetraploa	-	7	13	53	< 1	7	13	270	5
§ TOTAL SPORES/m3	16,000								

3113 Red Bluff Road, Pasadena, TX 77503 713-290-0223 www.eurofinsus.com/Built

Client: Technical Environmental Services

C/O: Bradley Bigner

Re: ENV 1558-23284; Houma Diesel Plant

Date of Submittal: 05-17-2023 Date of Receipt: 05-17-2023 Date of Report: 05-22-2023

MoldRANGETM: Extended Outdoor Comparison

Outdoor Location: ST-8, Outside South

Fungi Identified	Outdoor	Typical Outdoor Data by Date†				Typical Outdoor Data by Location:			
	data	Month: May			State: LA				
	spores/m3	low	med	high	freq %	low	med	high	freq %
Generally able to grow indoors*									
Alternaria	73	7	27	320	40	7	27	330	42
Aureobasidium	-	5	13	270	< 1	-	-	-	< 1
Bipolaris/Drechslera group	150	7	13	160	11	7	13	160	25
Chaetomium	-	7	13	220	10	7	13	220	4
Cladosporium	2,500	27	430	6,700	90	27	530	9,000	91
Curvularia	290	7	20	270	10	7	33	1,200	48
Epicoccum	73	7	27	270	20	7	20	270	24
Fusarium	-	7	13	210	2	7	27	220	9
Ganoderma	-	13	53	210	< 1	7	28	880	< 1
Nigrospora	80	7	13	110	8	7	27	320	33
Other brown	7	7	22	150	27	7	13	130	23
Other colorless	-	7	27	440	4	7	27	550	7
Penicillium/Aspergillus types	-	13	160	2,000	55	26	240	4,000	66
Pithomyces	690	7	13	130	5	7	13	270	19
Polythrincium	13	7	13	190	3	7	20	220	4
Stachybotrys	-	7	13	530	2	7	13	250	1
Torula	570	7	14	180	8	7	20	220	12
Zygomycetes	13	7	17	53,000	< 1	-	-	-	< 1
Seldom found growing indoors**									
Ascospores	190	13	320	9,900	79	27	370	9,000	91
Basidiospores	2,500	13	390	16,000	89	29	750	30,000	95
Cercospora	87	7	27	200	10	7	40	480	35
Peronospora	270	7	13	80	< 1	7	13	82	1
Pyricularia	-	7	20	320	4	7	21	690	10
Rusts	7	7	22	270	17	7	13	180	11
Smuts, Periconia, Myxomycetes	1,200	7	53	1,000	65	7	53	690	72
Spegazzinia	47	7	13	150	1	7	13	930	6
Tetraploa	7	7	13	53	< 1	7	13	270	5
§ TOTAL SPORES/m3	8,700								

Eurofins J3 Resources, Inc.

3113 Red Bluff Road, Pasadena, TX 77503 713-290-0223 www.eurofinsus.com/Built

Client: Technical Environmental Services

C/O: Bradley Bigner

Re: ENV 1558-23284; Houma Diesel Plant

Date of Submittal: 05-17-2023 Date of Receipt: 05-17-2023 Date of Report: 05-22-2023

MoldRANGETM: Extended Outdoor Comparison

† The Typical Outdoor Data by Date represents the typical outdoor spore levels across North America for the month indicated. The last column represents the frequency of occurrence. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 2.5% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

‡ The Typical Outdoor Data by Location represents the typical outdoor spore levels for the region indicated for the entire year. As with the Typical Outdoor Data by Date, the four columns represent the frequency of occurrence and the typical low, medium, and high concentration values for the spore type indicated. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

- * The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.
- ** These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by Eurofins EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, Eurofins EMLab P&K may not have received and tested a representative number of samples for every region or time period. Eurofins EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.



Report for:

Bradley Bigner Technical Environmental Services 5133 Taravella Rd. Marrero, LA 70072

Eurofins J3 Resources, Inc.

Regarding: Project: ENV 1558-23284; Houma Diesel Plant

EMĹ ID: 3262946

Approved by:

Dates of Analysis:

Direct microscopic exam (Qualitative): 05-22-2023

Lab Director Scott Ward

Service SOPs: Direct microscopic exam (Qualitative) (EM-MY-S-1039)

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the samples as received and tested.

Eurofins J3 Resources, Inc. ("the Company"), a member of the Eurofins Built Environment Testing group of companies, shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Eurofins J3 Resources, Inc.

3113 Red Bluff Road, Pasadena, TX 77503 713-290-0223 www.eurofinsus.com/Built

Client: Technical Environmental Services

C/O: Bradley Bigner

Re: ENV 1558-23284; Houma Diesel Plant

Date of Submittal: 05-17-2023 Date of Receipt: 05-17-2023 Date of Report: 05-22-2023

DIRECT MICROSCOPIC EXAMINATION REPORT

Background Debris and/or	Miscellaneous Spores Present*	MOLD GROWTH: Molds seen with underlying mycelial and/or	Other Comments††	General Impression					
Description		sporulating structures†							
Lab ID-Version‡: 15822861-1, Analysis Date: 05/22/2023: Tape sample ST-A: Interior Restroom									
Scant	Very few	3+ Chaetomium species (spores, hyphal fragments)	None	Mold growth					
Lab ID-Version: 15822862-1, Analysis Date: 05/22/2023: Tape sample ST-B: Interior Training									
Light	Very few	2+ <i>Cladosporium</i> species (budding cells, hyphae)	None	Mold growth					
Lab ID-Version: 15822863-1, Analysis Date: 05/22/2023: Tape sample ST-C: Upstairs Storage									
Scant	Very few	4+ Chaetomium species (spores, hyphal fragments)	None	Mold growth					

^{*} Indicative of normal conditions, i.e. seen on surfaces everywhere. Includes basidiospores (mushroom spores), myxomycetes, plant pathogens such as ascospores, rusts and smuts, and a mix of saprophytic genera with no particular spore type predominating. Distribution of spore types seen mirrors that usually seen outdoors.

The limit of detection is < 1+ when mold growth is detected.

For additional information necessary for the interpretation of the results, all readers are advised to refer to the document "Direct Exam Details Page" which is available on our website at: www.emlab.com/services/mold-testing/direct-microscopic-exam-qualitative/

[†] Quantities of molds seen growing are listed in the MOLD GROWTH column and are graded <1+ to 4+, with 4+ denoting the highest numbers.

^{††} Some comments may refer to the following: Most surfaces collect a mix of spores which are normally present in the outdoor environment. At times it is possible to note a skewing of the distribution of spore types, and also to note "marker" genera which may indicate indoor mold growth. Marker genera are those spore types which are present normally in very small numbers, but which multiply indoors when conditions are favorable for growth.

[‡] A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

DATE & TIME noteisaga lluit - konut easkatt elbeM-C \$ \$ \$ You suring SciCline Plant - Full spen PeniClad genes only 3-Media Surisce Fungi (Genera II) + Asp. speciation) 003262946 FUNGAL ANALYSIS ražetoegs !luf - igne? soehel2 slbsk/-S Vinciauraga batXineff .paga Nail - igmuil apahaS albaxi-S 2-Modia Surface Tungi (Garus ID + Asp. speciation) notieisaga lluin - ignuin soshuið síbabhit і Амафа быласа Рилаі - Риіі врес. Репубра genus ожу RECEIVED BY -Modes Surface Fungi (Genus ID + Asp. specialion) (Check BioOs Water REQUES Vito aungi - Fisā specialion Pon, & Chad, genus only (no Jeinage, AsA + Of eans () ignu 7 nA \$ Dust Cheracterization Page Sage Сизодіздув Броів Сольі Пувсі Ехаіл theath Sam Deed Microscopic Exam (Qualitative) 82 Solodine rentO - sizylent gent ewq2 Spare Trap Spore Trap Analysis DATE & TIME Montheered 983 589 82.0584 5145 84.748.6 **S** 318 52 75205 next business day. Please 2002 Rushos received after 2pm or conveekends, will be 光子が 뎁 considered received the waakend analysis needs alert us in advance of TES CONSUCT. CON 35 <u>2</u> TURN AROUND TIME CODES (TAT) Wind Notes: (Time of day, Snow **≨** Ű TA RANGE JEHA. Rain Ż RELINQUISHED BY ķ X Total Volume (Area SD - Same Business Day Rush STD - Standard (DEFAULT) J (es applicable) Moderate ND - Maxt Business Days WH - Meekerd / Molday ပို 9 ۲, ۲ Weather 1880 900<u>0</u> 퍨 гелеј Ø EMLAB P&K TAT (Pbowe) BBIGHER CONTACT INFORMATION Address: 53,33 SSF, CA: 6000 Shureline Court, Suite 205, South San Francisco, CA 94080 * (366) 888-6653 6 Special Instructions: W - Water Sample Type (Befrat) 50 - Sol D-Dust 3 SET S アンマント New Jersey: 2000 Lincoln Drive East, Suite A, Martico, NJ 08053 * (366) 271-1964 123284 Phoenix, AZ: 1501 West Knudsen Drive, Ptoenix, AZ 85027 * (800) 651-4802 18/18 💸 eurofins VACVE RE SW - Swah Sampled By: T.A. Storage T-Tape 5+5.64g B-Bulk est/oox Sampling Date & Time: かんだんと DOUNT イトつつへ PROJECT INFORMATION ₹89-かんかんかん Story Diesel 47702 SAMPLE TYPE CODES ST - Spore Trap: Zafon. B15-26-9 348-3058 Allergenco, Burkard ... 1658 System Stars CP - Contact Plate Description STAIRS TOTALOR OUTSINE CHAIN OF CUSTODY 7.50.47 アンドウイ N (4: 12.10 F とでくら 100m Dutsing 98 www.EMLabPK.com 3 RODO SAS - Surface Air Sampler BC - BioCassette IN A1S - Anderson 9 Sample ID Description PO Number Projekt Zra Code: Project ID: Company Contact Phone: Project 3

By submitting this Chain of Custody, you agree to be bound by the terms and conditions set forth at http://www.emish.com/bemiss-of-senifice Copydett © 2019 Eurolins EMLeo P&K

O-Other

Fungal COC, Dec. # EM-OS-F-2551, Avr. 9, Festivid at \$19.9, Page 1 of 1