

LIMITED ASBESTOS INSPECTION

St. Bernard Port – Buildings 172 and 172A
100 Port Boulevard
Chalmette, Louisiana

Prepared for:
St. Bernard Port, Harbor and Terminal District
100 Port Boulevard
Chalmette, Louisiana

Prepared on:
May 12, 2020

SEMS Project #1134-0007

Prepared by:
Roy Dowling, PhD, PE, CIH
Industrial Hygiene Division Manager



1725 North Hearne Ave., Bldg. F
Shreveport, LA 71107



318.779.0763



info@semsinc.net
www.semsinc.net

May 26, 2020

Project No. 1134-0007

Mr. Ted Roche
St. Bernard Port, Harbor & Terminal District
100 Port Boulevard
Chalmette, Louisiana 70043

**Limited Asbestos Inspection Results
St. Bernard Port – Buildings 172 and 172A
100 Port Boulevard
Chalmette, Louisiana**

Dear Mr. Roche:

Southern Environmental Management & Specialties (SEMS) is pleased to present the results of the limited asbestos inspection of Buildings 172 and 172A of St. Bernard Port located at 100 Port Boulevard, Chalmette, Louisiana.

Austin Leopold, a SEMS Louisiana Department of Environmental Quality (LDEQ) accredited inspector, accreditation (0I189864), conducted the limited asbestos inspection on Wednesday, May 6, 2020. St. Bernard Port, Harbor & Terminal District requested that the facility be inspected for all suspect asbestos-containing materials.

Asbestos can only be positively identified using microscopical techniques. Samples collected in this survey were analyzed using Polarized Light Microscopy (PLM). CA Labs, L.L.C. located in Baton Rouge, Louisiana, analyzed the samples from this assessment. CA Labs is a National Voluntary Laboratory Accredited Program (NVLAP) and is certified by the Louisiana Environmental Laboratory Accreditation Program (LELAP).

The analysis procedure followed for asbestos determination was published in *Method for the Determination of Asbestos in Bulk Building Materials, EPA/600/R-193/116 (1993)*. This method is referred to as the “Improved Method” and is recommended by the EPA as a preferred substitute to the Interim Method. Based on these guidelines, suspect material was considered not to contain ACM only if the results of all samples required to be collected from the homogeneous area were determined to have asbestos in amounts of 1% or less. Those materials analyzed and determined to contain greater than 1% were considered ACM.

Forty-eight (48) bulk samples were collected from Buildings 172 and 172A of St. Bernard Port located at 100 Port Boulevard, Chalmette, Louisiana, on May 6, 2020 to verify the visual assessment, and submitted for analysis. Twenty-six (26) of the of the forty-eight (48) samples were positive for asbestos. The results of the testing are provided below:

TABLE 1
St. Bernard Port – Buildings 172 and 172A
Limited Asbestos Inspection Results
May 6, 2020

Sample ID	Material Description	Location	Asbestos % Type
SB-20-127-001	Black 12"x12" floor tile	East lobby - East	ND
SB-20-127-002	Black 12"x12" floor tile	SE office - Center	ND
SB-20-127-003	Black 12"x12" floor tile	NE office- Center	ND
SB-20-127-004	Layer 1 - Gray 9"x9" floor tile	East lobby - North	4% Chrysotile
SB-20-127-004	Layer 2 - Black mastic	East lobby - North	ND
SB-20-127-005	Layer 1 - Gray 9"x9" floor tile	SE office - Center	4% Chrysotile
SB-20-127-005	Layer 2 - Black mastic	SE office - Center	5% Chrysotile
SB-20-127-006	Layer 1 - Gray 9"x9" floor tile	NE office- Center	4% Chrysotile
SB-20-127-006	Layer 2 - Black mastic	NE office- Center	ND
SB-20-127-007	Layer 1 - Gray Linoleum	West hall - South	20% Chrysotile
SB-20-127-007	Layer 2 - Black and yellow mastic	West hall - South	NA
SB-20-127-008	Layer 1 - Gray Linoleum	NE office - West	20% Chrysotile
SB-20-127-008	Layer 2 - Black and yellow mastic	NE office - West	NA
SB-20-127-009	Layer 1 - Gray Linoleum	East hall - South	20% Chrysotile
SB-20-127-009	Layer 2 - Black and yellow mastic	East hall - South	NA
SB-20-127-010	Layer 1 - Gray 9"x9" floor tile	South center office - North	4% Chrysotile
SB-20-127-010	Layer 2 - Black mastic	South center office - North	5% Chrysotile

Sample ID	Material Description	Location	Asbestos % Type
SB-20-127-011	Layer 1 - Gray 9"x9" floor tile	SW office 2 - NW	4% Chrysotile
SB-20-127-011	Layer 2 - Black mastic	SW office 2 - NW	ND
SB-20-127-012	Layer 1 - Gray 9"x9" floor tile	NW office 1 - center	4% Chrysotile
SB-20-127-012	Layer 2 - Black mastic	NW office 1 - center	ND
SB-20-127-013	Layer 1 - Green 9"x9" floor tile	SW office 2 - Center	6% Chrysotile
SB-20-127-013	Layer 2 - Black mastic	SW office 2 - Center	3% Chrysotile
SB-20-127-014	Layer 1 - Green 9"x9" floor tile	SW office 2 - South	6% Chrysotile
SB-20-127-014	Layer 2 - Black mastic	SW office 2 - South	ND
SB-20-127-015	Layer 1 - Green 9"x9" floor tile	SW office 2 - SE	6% Chrysotile
SB-20-127-015	Layer 2 - Black mastic	SW office 2 - SE	3% Chrysotile
SB-20-127-016	Layer 1 - Tan flooring	SW office 1 - Center	15% Chrysotile
SB-20-127-016	Layer 2 - Gray leveling plaster	SW office 1 - Center	N/A
SB-20-127-017	Layer 1 - Tan flooring	SW office 1 - South	15% Chrysotile
SB-20-127-017	Layer 2 - Gray leveling plaster	SW office 1 - South	N/A
SB-20-127-018	Yellow floor covering	SW office 1 - North	ND
SB-20-127-019	Layer 1 - Green surfaced white compound	NE office - NE	3% Chrysotile
SB-20-127-019	Layer 2 - White compound beneath tape	NE office - NE	3% Chrysotile
SB-20-127-019	Layer 3 - White drywall with paper	NE office - NE	ND
SB-20-127-020	Layer 1 - Green surfaced white compound	South lobby - S	3% Chrysotile
SB-20-127-020	Layer 2 - White drywall with paper	South lobby - S	ND
SB-20-127-021	Layer 1 - Green surfaced white compound	North lobby - S	3% Chrysotile

Sample ID	Material Description	Location	Asbestos % Type
SB-20-127-021	Layer 2 - White compound beneath tape	North lobby - S	3% Chrysotile
SB-20-127-021	Layer 3 - White drywall with paper	North lobby - S	ND
SB-20-127-022	Gray insulation	East office - east	30% Amosite
SB-20-127-023	White pipe insulation	SW office 2 - NE	10% Amosite 5% Chrysotile
SB-20-127-024	Tan insulation	SW office 2 - SW	30% Amosite
SB-20-127-025	Yellow pipe insulation	East office - east	ND
SB-20-127-026	Yellow pipe insulation	SW office 2 -NW	ND
SB-20-127-027	Yellow pipe insulation	SW office 1 - North	ND
SB-20-127-028	12"x12" white ceiling tiles and glue dots	East lobby - north	ND
SB-20-127-029	12"x12" white ceiling tiles and glue dots	East lobby - South	ND
SB-20-127-030	12"x12" white ceiling tiles and glue dots	NW office 1 - center	ND
SB-20-127-031	Yellow ceiling insulation	East lobby - South	ND
SB-20-127-032	Yellow ceiling insulation	South lobby - North	ND
SB-20-127-033	Yellow ceiling insulation	NW office - East	ND
SB-20-127-034	Pink HVAC insulation	NE office - SE	ND
SB-20-127-035	Pink HVAC insulation	NE office - West	ND
SB-20-127-036	Pink HVAC insulation	SW office 2 - East	ND
SB-20-127-037	Tan sealant	NE window	4% Chrysotile
SB-20-127-038	Tan sealant	East window	4% Chrysotile
SB-20-127-039	Tan sealant	SE window	4% Chrysotile
SB-20-127-040	Window caulking - Inside frame White	NE window	ND

Sample ID	Material Description	Location	Asbestos % Type
SB-20-127-041	Window caulking - Inside frame White	East window	ND
SB-20-127-042	Window caulking - Inside frame, White	SE window	ND
SB-20-127-043	Roofing curb and tar	South - SE	10% Chrysotile
SB-20-127-044	Roofing curb and tar	South - East	10% Chrysotile
SB-20-127-045	Roofing curb and tar	South - South	10% Chrysotile
SB-20-127-046	Roof core (Shingle, tar paper, insulation)	South - SE	ND
SB-20-127-047	Roof core (Shingle, tar paper, insulation)	South - East	ND
SB-20-127-048	Roof core (Shingle, tar paper, insulation)	South - South	ND

From the results above, floor tile, black mastic, linoleum, surface and compound material, thermal system insulation and roofing tar all contain asbestos. Therefore, the following recommendations are provided:

- **Floor Tile & Mastic:** The floor tile and mastic are Category I non-friable Asbestos-Containing Materials. The floor tile and mastic would need to be removed by a licensed abatement contractor before any renovation or demolition activities occur. This will allow the concrete slab to be recycled or reused.
- **Linoleum:** The linoleum is a non-friable Asbestos-Containing Material. This material will have to be removed by a licensed abatement contractor before any renovation or demolition activities occur. This will allow the concrete slab to be recycled or reused.
- **Texture Material and Joint Compound (MUD):** The texture material and joint compound are Category I non-friable Asbestos-Containing Materials. This material will have to be removed by a licensed abatement contractor before any renovation or demolition activities occur. Ninety (90) percent of the sheetrock has been removed previously, however the entire building will need to be cleaned and the sheetrock remnants will need to be removed.
- **Thermal System Insulation:** The thermal system insulation is a friable Asbestos-Containing Material. This material will have to be removed by a licensed abatement contractor before any renovation or demolition activities occur. The pipe insulation will need to be glove bagged and removed prior to renovation or demolition activities.
- **Roofing Tar:** The roofing tar is a non-friable asphaltic-based material. This material can be removed by a roofing contractor or asbestos contractor before any renovation activities occur. This material will need to be removed with the demolition debris during the demolition process. The roof

is not structurally sound and the roofing tar on the parapet wall cannot be safely removed prior to demolition.

SEMS is pleased to offer these industrial hygiene services. If you have any questions regarding this report or if we can offer additional occupational health and safety related services, please contact the undersigned below at 318-393-4890.

Sincerely,

SEMS, Inc.

A handwritten signature in blue ink, appearing to read "Roy W. Dowling".

Roy Dowling, PhD, CIH, PE
Industrial Hygiene Division Manager

Appendices:

- Appendix A – Asbestos Inspection Log
- Appendix B – Sample Location Drawings
- Appendix C – Analytical Data
- Appendix D – Photographs

APPENDIX A
INSPECTION LOG



Sample ID	Material Description	Category	Friability	Assessment Category	Location	Asbestos % Type
SB-20-127-001	Black 12"x12" floor tile	M	NF	8	East lobby - East	ND
SB-20-127-002	Black 12"x12" floor tile	M	NF	8	SE office - Center	ND
SB-20-127-003	Black 12"x12" floor tile	M	NF	8	NE office- Center	ND
SB-20-127-004	Layer 1 - Gray 9"x9" floor tile	M	NF	8	East lobby - North	4% Chrysotile
SB-20-127-004	Layer 2 - Black mastic	M	NF	8	East lobby - North	ND
SB-20-127-005	Layer 1 - Gray 9"x9" floor tile	M	NF	8	SE office - Center	4% Chrysotile
SB-20-127-005	Layer 2 - Black mastic	M	NF	8	SE office - Center	5% Chrysotile
SB-20-127-006	Layer 1 - Gray 9"x9" floor tile	M	NF	8	NE office- Center	4% Chrysotile
SB-20-127-006	Layer 2 - Black mastic	M	NF	8	NE office- Center	ND
SB-20-127-007	Layer 1 - Gray Linoleum	M	NF	8	West hall - South	20% Chrysotile
SB-20-127-007	Layer 2 - Black and yellow mastic	M	NF	8	West hall - South	NA
SB-20-127-008	Layer 1 - Gray Linoleum	M	NF	8	NE office - West	20% Chrysotile



Sample ID	Material Description	Category	Friability	Assessment Category	Location	Asbestos % Type
SB-20-127-008	Layer 2 - Black and yellow mastic	M	NF	8	NE office - West	NA
SB-20-127-009	Layer 1 - Gray Linoleum	M	NF	8	East hall - South	20% Chrysotile
SB-20-127-009	Layer 2 - Black and yellow mastic	M	NF	8	East hall - South	NA
SB-20-127-010	Layer 1 - Gray 9"x9" floor tile	M	NF	8	South center office - North	4% Chrysotile
SB-20-127-010	Layer 2 - Black mastic	M	NF	8	South center office - North	5% Chrysotile
SB-20-127-011	Layer 1 - Gray 9"x9" floor tile	M	NF	8	SW office 2 - NW	4% Chrysotile
SB-20-127-011	Layer 2 - Black mastic	M	NF	8	SW office 2 - NW	ND
SB-20-127-012	Layer 1 - Gray 9"x9" floor tile	M	NF	8	NW office 1 - center	4% Chrysotile
SB-20-127-012	Layer 2 - Black mastic	M	NF	8	NW office 1 - center	ND
SB-20-127-013	Layer 1 - Green 9"x9" floor tile	M	NF	8	SW office 2 - Center	6% Chrysotile
SB-20-127-013	Layer 2 - Black mastic	M	NF	8	SW office 2 - Center	3% Chrysotile
SB-20-127-014	Layer 1 - Green 9"x9" floor tile	M	NF	8	SW office 2 - South	6% Chrysotile



Sample ID	Material Description	Category	Friability	Assessment Category	Location	Asbestos % Type
SB-20-127-014	Layer 2 - Black mastic	M	NF	8	SW office 2 - South	ND
SB-20-127-015	Layer 1 - Green 9"x9" floor tile	M	NF	8	SW office 2 - SE	6% Chrysotile
SB-20-127-015	Layer 2 - Black mastic	M	NF	8	SW office 2 - SE	3% Chrysotile
SB-20-127-016	Layer 1 - Tan flooring	M	NF	8	SW office 1 - Center	15% Chrysotile
SB-20-127-016	Layer 2 - Gray leveling plaster	M	NF	8	SW office 1 - Center	N/A
SB-20-127-017	Layer 1 - Tan flooring	M	NF	8	SW office 1 - South	15% Chrysotile
SB-20-127-017	Layer 2 - Gray leveling plaster	M	NF	8	SW office 1 - South	N/A
SB-20-127-018	Yellow floor covering	M	NF	8	SW office 1 - North	ND
SB-20-127-019	Layer 1 - Green surfaced white compound	M	F	7	NE office - NE	3% Chrysotile
SB-20-127-019	Layer 2 - White compound beneath tape	M	F	7	NE office - NE	3% Chrysotile
SB-20-127-019	Layer 3 - White drywall with paper	M	F	7	NE office - NE	ND
SB-20-127-020	Layer 1 - Green surfaced white compound	M	F	7	South lobby - S	3% Chrysotile



Sample ID	Material Description	Category	Friability	Assessment Category	Location	Asbestos % Type
SB-20-127-020	Layer 2 - White drywall with paper	M	F	7	South lobby - S	ND
SB-20-127-021	Layer 1 - Green surfaced white compound	M	F	7	North lobby - S	3% Chrysotile
SB-20-127-021	Layer 2 - White compound beneath tape	M	F	7	North lobby - S	3% Chrysotile
SB-20-127-021	Layer 3 - White drywall with paper	M	F	7	North lobby - S	ND
SB-20-127-022	Gray insulation	T	F	7	East office - east	30% Amosite
SB-20-127-023	White pipe insulation	T	F	7	SW office 2 - NE	10% Amosite 5% Chrysotile
SB-20-127-024	Tan insulation	T	F	7	SW office 2 - SW	30% Amosite
SB-20-127-025	Yellow pipe insulation	T	F	7	East office - east	ND
SB-20-127-026	Yellow pipe insulation	T	F	7	SW office 2 -NW	ND
SB-20-127-027	Yellow pipe insulation	T	F	7	SW office 1 - North	ND
SB-20-127-028	12"x12" white ceiling tiles and glue dots	M	F	7	East lobby - north	ND
SB-20-127-029	12"x12" white ceiling tiles and glue dots	M	F	7	East lobby - South	ND



Sample ID	Material Description	Category	Friability	Assessment Category	Location	Asbestos % Type
SB-20-127-030	12"x12" white ceiling tiles and glue dots	M	F	7	NW office 1 - center	ND
SB-20-127-031	Yellow ceiling insulation	M	F	7	East lobby - South	ND
SB-20-127-032	Yellow ceiling insulation	M	F	7	South lobby - North	ND
SB-20-127-033	Yellow ceiling insulation	M	F	7	NW office - East	ND
SB-20-127-034	Pink HVAC insulation	M	F	7	NE office - SE	ND
SB-20-127-035	Pink HVAC insulation	M	F	7	NE office - West	ND
SB-20-127-036	Pink HVAC insulation	M	F	7	SW office 2 - East	ND
SB-20-127-037	Tan sealant	S	NF	8	NE window	4% Chrysotile
SB-20-127-038	Tan sealant	S	NF	8	East window	4% Chrysotile
SB-20-127-039	Tan sealant	S	NF	8	SE window	4% Chrysotile
SB-20-127-040	Window caulking - Inside frame White	S	NF	8	NE window	ND
SB-20-127-041	Window caulking - Inside frame White	S	NF	8	East window	ND



Sample ID	Material Description	Category	Friability	Assessment Category	Location	Asbestos % Type
SB-20-127-042	Window caulking - Inside frame White	S	NF	8	SE window	ND
SB-20-127-043	Roofing curb and tar	M	NF	9	South - SE	10% Chrysotile
SB-20-127-044	Roofing curb and tar	M	NF	9	South - East	10% Chrysotile
SB-20-127-045	Roofing curb and tar	M	NF	9	South - South	10% Chrysotile
SB-20-127-046	Roof core (Shingle, tar paper, insulation)	M	NF	9	South - SE	ND
SB-20-127-047	Roof core (Shingle, tar paper, insulation)	M	NF	9	South - East	ND
SB-20-127-048	Roof core (Shingle, tar paper, insulation)	M	NF	9	South - South	ND

Please use the following guidelines when reading this report:

Red = Asbestos-Containing Material Blue = Non Asbestos-Containing Material Green = Non Asbestos-Containing Material (determined by Point Count analysis)

S=South SS=South Side N=North NS=North Side W=West WS=West Side E=East ES=East Side SA=Same As Vert.=Vertical Pipe Run

Asbestos % Type: ND=None Detected NA=Not Analyzed

Category: T=TSI, S=Surfacing, M=Miscellaneous

Friability: F=Friable, NF=Non-Friable, X=Non-ACBM

Assessment 1=Damaged or significantly damaged TSI ACBM, 2=Damaged friable surfacing ACBM, 3=Significantly damaged friable surfacing ACBM,

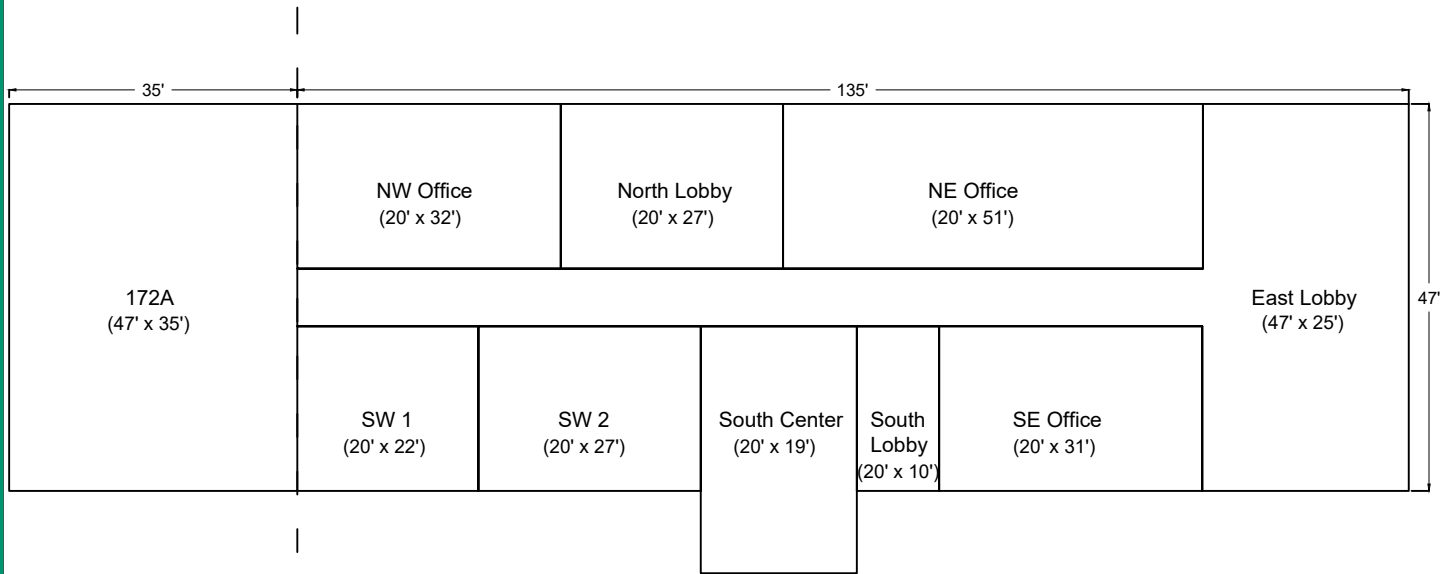
Category: 4=Damaged or significantly damaged friable miscellaneous ACBM, 5=ACBM with potential for damage, 6=ACBM with potential for significant damage,

7=Any remaining friable ACBM or friable suspected ACBM, 8=Damaged non-friable ACBM or suspected ACBM,

9=Any remaining ACBM or suspected ACBM, X=Non-ACBM

APPENDIX B
SAMPLE LOCATION DRAWINGS

SITE PLAN



**BUILDING
172 A**

BUILDING 172

BUILDING #172 & 172A

100 Port Boulevard
St. Bernard Port Facility
Chalmette, Louisiana

Project No.	1134-0007	Checked By:
Drawn By	GC 5/10/20	Approved By:
Rev. #:		Date:
Rev. #:		Date:



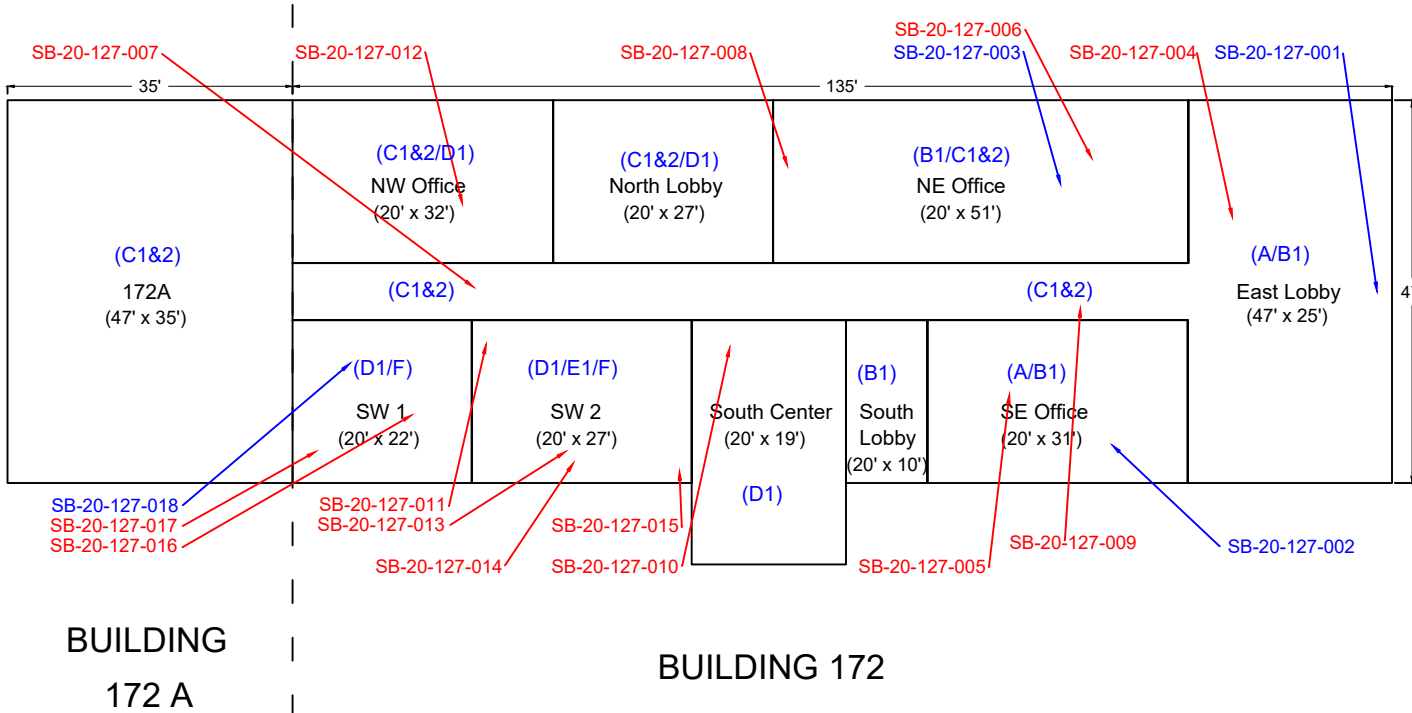
FLOORING SAMPLES

Sample ID	Material Description	"Asbestos % Type"	Sample ID	Material Description	Asbestos % Type	Sample ID	Material Description	Asbestos % Type
SB-20-127-001	Black 12"x12" floor tile	ND	SB-20-127-008	Layer 1 - Gray Linoleum	20% Chrysotile	SB-20-127-013	Layer 2 - Black mastic	3% Chrysotile
SB-20-127-002	Black 12"x12" floor tile	ND	SB-20-127-008	Layer 2 - Black and yellow mastic	NA	SB-20-127-013	Layer 1 - Green 9"x9" floor tile	6% Chrysotile
SB-20-127-003	Black 12"x12" floor tile	ND	SB-20-127-009	Layer 1 - Gray Linoleum	20% Chrysotile	SB-20-127-014	Layer 1 - Green 9"x9" floor tile	6% Chrysotile
SB-20-127-004	Layer 1 - Gray 9"x9" floor tile	4% Chrysotile	SB-20-127-009	Layer 2 - Black and yellow mastic	NA	SB-20-127-014	Layer 2 - Black mastic	ND
SB-20-127-004	Layer 2 - Black mastic	ND	SB-20-127-010	Layer 1 - Gray 9"x9" floor tile	4% Chrysotile	SB-20-127-015	Layer 2 - Black mastic	3% Chrysotile
SB-20-127-005	Layer 1 - Gray 9"x9" floor tile	4% Chrysotile	SB-20-127-010	Layer 2 - Black mastic	5% Chrysotile	SB-20-127-015	Layer 1 - Green 9"x9" floor tile	6% Chrysotile
SB-20-127-005	Layer 2 - Black mastic	5% Chrysotile	SB-20-127-011	Layer 1 - Gray 9"x9" floor tile	4% Chrysotile	SB-20-127-016	Layer 1 - Tan flooring	15% Chrysotile
SB-20-127-006	Layer 1 - Gray 9"x9" floor tile	4% Chrysotile	SB-20-127-011	Layer 2 - Black mastic	ND	SB-20-127-016	Layer 2 - Gray leveling plaster	N/A
SB-20-127-006	Layer 2 - Black mastic	ND	SB-20-127-012	Layer 1 - Gray 9"x9" floor tile	4% Chrysotile	SB-20-127-017	Layer 1 - Tan flooring	15% Chrysotile
SB-20-127-007	Layer 1 - Gray Linoleum	20% Chrysotile	SB-20-127-012	Layer 2 - Black mastic	ND	SB-20-127-017	Layer 2 - Gray leveling plaster	N/A
SB-20-127-007	Layer 2 - Black and yellow mastic	NA				SB-20-127-018	Yellow floor covering	ND

SB-20-127-XXX Positive for Asbestos
 SB-20-127-XXX Negative for Asbestos

- 1 Black Mastic
- 2 Yellow Mastic
- A Black 12x12 Floor Tile
- B Gray 9x9 Floor Tile
- C Gray Linoleum
- D Gray/White 9x9 Floor Tile
- E Green 9x9 Floor Tile
- F Tan Flooring

Abatement in the South Center Office is not advised due to the collapse of the North Wall, as well as the frame bending near the ceiling. Flooring B1 and D1 are in a grid pattern in rooms: NW Office, North Lobby, NE Office, SW 1, and SW 2. They do not cover the entire floor, only one or two rows per office



BUILDING #172 & 172A

100 Port Boulevard
 St. Bernard Port Facility
 Chalmette, Louisiana

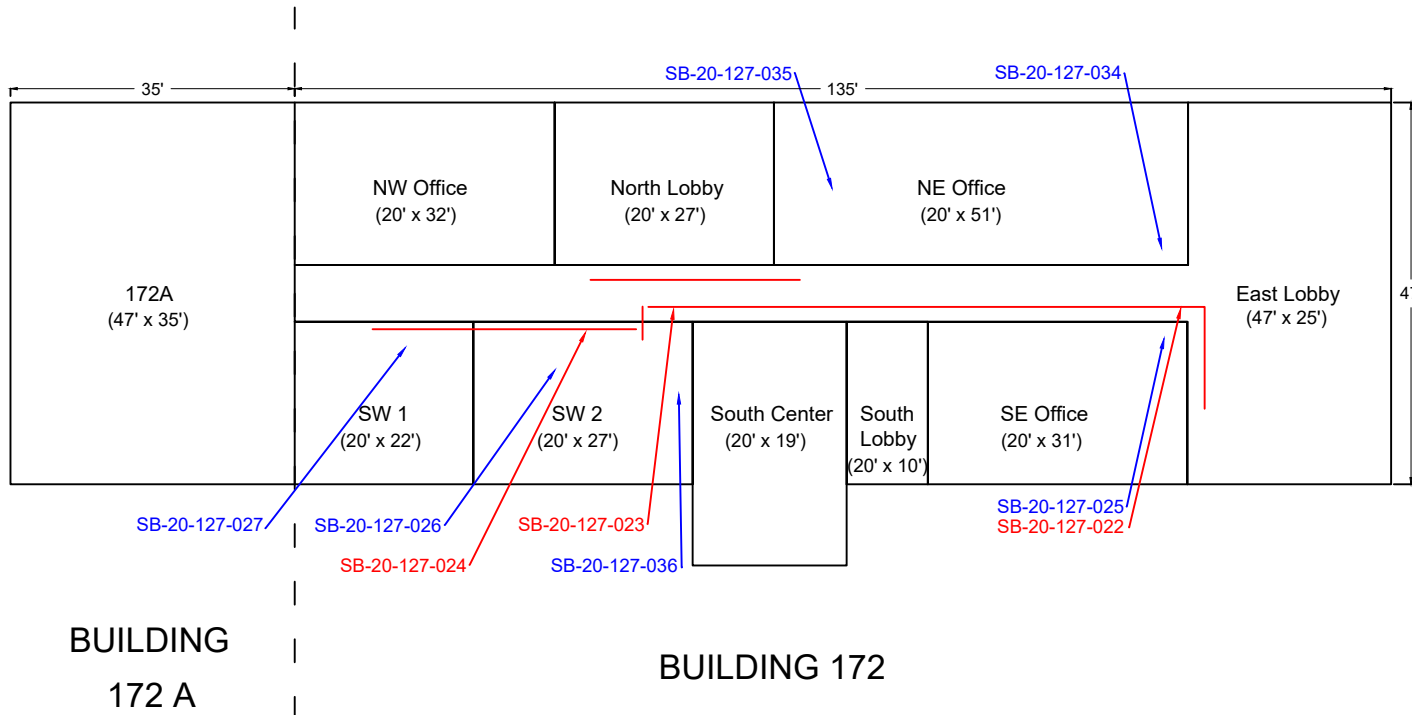
Project No.	1134-0007	Checked By:
Drawn By	GC	5/10/20
Rev. #:		Date:
Rev. #:		Date:

Sample ID	Material Description	"Asbestos % Type"
SB-20-127-022	Gray insulation	30% Amosite
SB-20-127-023	White pipe insulation	"10% Amosite 5% Chrysotile"
SB-20-127-024	Tan insulation	30% Amosite
SB-20-127-025	Yellow pipe insulation	ND
SB-20-127-026	Yellow pipe insulation	ND
SB-20-127-027	Yellow pipe insulation	ND
SB-20-127-034	Pink HVAC insulation	ND
SB-20-127-035	Pink HVAC insulation	ND
SB-20-127-036	Pink HVAC insulation	ND

PIPING SAMPLES

SB-20-127-XXX Positive for Asbestos
 SB-20-127-XXX Negative for Asbestos

— Approximately 150 linear feet of piping from which samples 022-024 were taken. Yellow piping insulation follows the same run.



BUILDING #172 & 172A

100 Port Boulevard
 St. Bernard Port Facility
 Chalmette, Louisiana

Project No.	1134-0007	Checked By:
Drawn By	GC	5/10/20
Rev. #:		Date:
Rev. #:		Date:

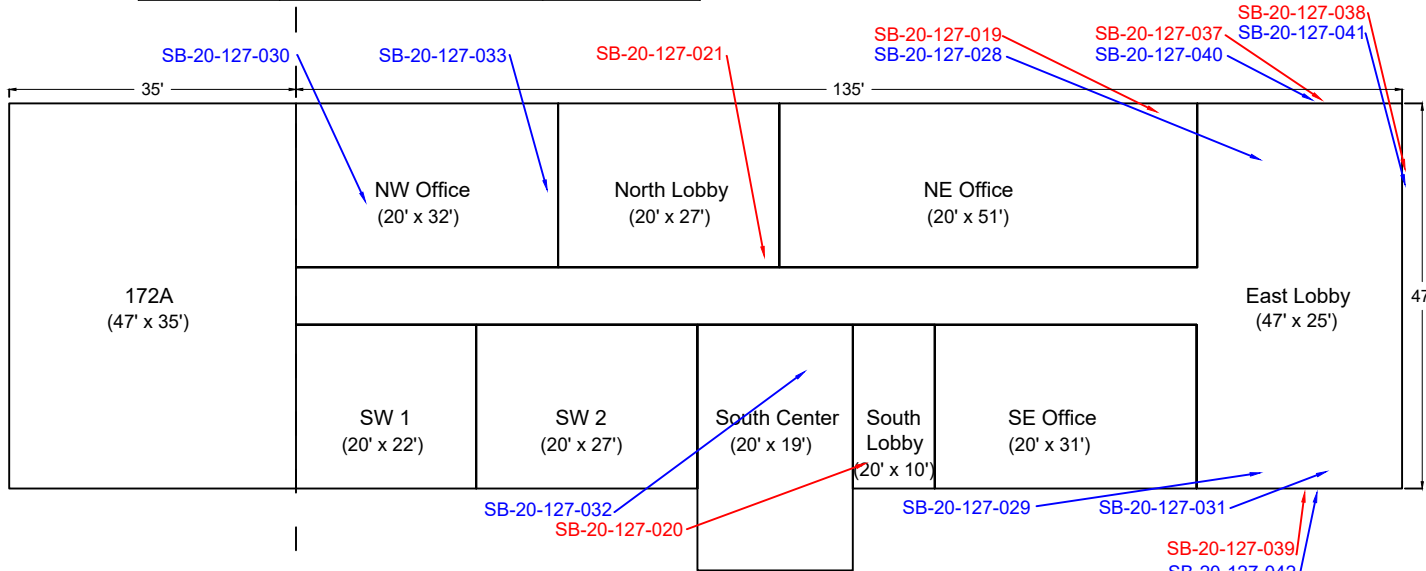
Sample ID	Material Description	"Asbestos % Type"
SB-20-127-019	Layer 1 - Green surfaced white compound	3% Chrysotile
SB-20-127-019	Layer 2 - White compound beneath tape	3% Chrysotile
SB-20-127-019	Layer 3 - White drywall with paper	ND
SB-20-127-020	Layer 1 - Green surfaced white compound	3% Chrysotile
SB-20-127-020	Layer 2 - White drywall with paper	ND
SB-20-127-021	Layer 1 - Green surfaced white compound	3% Chrysotile
SB-20-127-021	Layer 2 - White compound beneath tape	3% Chrysotile
SB-20-127-021	Layer 3 - White drywall with paper	ND
SB-20-127-028	12"x12" white ceiling tiles and glue dots	ND
SB-20-127-029	12"x12" white ceiling tiles and glue dots	ND

Sample ID	Material Description	"Asbestos % Type"
SB-20-127-030	12"x12" white ceiling tiles and glue dots	ND
SB-20-127-031	Yellow ceiling insulation	ND
SB-20-127-032	Yellow ceiling insulation	ND
SB-20-127-033	Yellow ceiling insulation	ND
SB-20-127-037	Tan sealant	4% Chrysotile
SB-20-127-038	Tan sealant	4% Chrysotile
SB-20-127-039	Tan sealant	4% Chrysotile
SB-20-127-040	Window caulking - Inside frame White	ND
SB-20-127-041	Window caulking - Inside frame White	ND
SB-20-127-042	Window caulking - Inside frame White	ND

MISCELLANEOUS SAMPLES

SB-20-127-XXX Positive for Asbestos
 SB-20-127-XXX Negative for Asbestos

Small pieces of drywall and compound are scattered throughout the building. Building has had flooding and over 90% of drywall is gone.



BUILDING #172 & 172A

100 Port Boulevard
 St. Bernard Port Facility
 Chalmette, Louisiana

BUILDING
 172 A

BUILDING 172

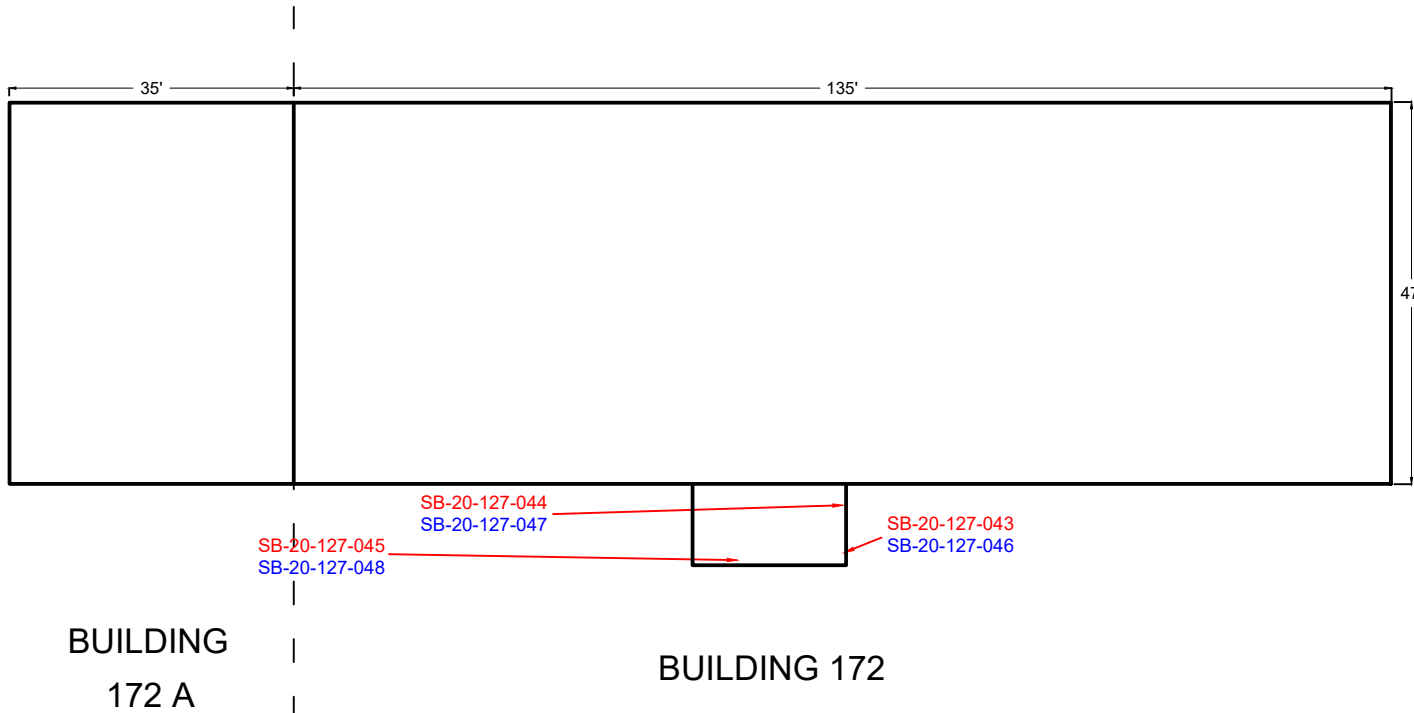
Project No.	1134-0007	Checked By:
Drawn By	GC 5/10/20	Approved By:
Rev. #:		Date:
Rev. #:		Date:

ROOFING SAMPLES

Sample ID	Material Description	"Asbestos % Type"
SB-20-127-043	Roofing curb and tar	10% Chrysotile
SB-20-127-044	Roofing curb and tar	10% Chrysotile
SB-20-127-045	Roofing curb and tar	10% Chrysotile
SB-20-127-046	Roof core (Shingle, tar paper, insulation)	ND
SB-20-127-047	Roof core (Shingle, tar paper, insulation)	ND
SB-20-127-048	Roof core (Shingle, tar paper, insulation)	ND

SB-20-127-XXX Positive for Asbestos
 SB-20-127-XXX Negative for Asbestos

Parapet Wall is 20" tall by 12" wide. The southern portion of wall was the only area accessed due to the roof wall of the South Center Office had caved in with frame bending inside. Removal of the roofing mastic will have to be done as part of the demolition.



BUILDING #172 & 172A

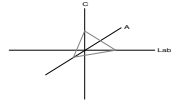
100 Port Boulevard
 St. Bernard Port Facility
 Chalmette, Louisiana

Project No.	1134-0007	Checked By:
Drawn By	GC 5/10/20	Approved By:
Rev. #:		Date:
Rev. #:		Date:

APPENDIX C
ANALYTICAL RESULTS

CA Labs
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

SEMS, Inc

11628 S Choctaw Drive
Baton Rouge, LA 70815

Attn: Roy Dowling

Customer Project: St. Bernard Bldg 172

Reference #: CBR20051907

Date: 5/7/2020

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 performed. Calibrated liquid refractive oils are used as liquid mounting 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 conjunction 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 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 by 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.

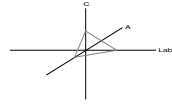
Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

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 of 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.



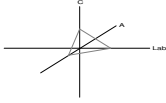
Overview of Project Sample Material Containing Asbestos

Customer Project:	St. Bernard Bldg 172			CA Labs Project #:	CBR20051907
Sample #	Layer #	Analysts	Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
SB-20-127-004	004-1		Gray Floor Tile	4% Chrysotile	Gray Floor Tile Black Mastic Gray Linoleum Green Floor Tile Tan Flooring Green Surfaced White Compound White Compound Beneath Tape Blue Surfaced White Compound
SB-20-127-005	005-1		Gray Floor Tile	4% Chrysotile	
	005-2		Black Mastic	5% Chrysotile	
SB-20-127-006	006-1		Gray Floor Tile	4% Chrysotile	
SB-20-127-007	007-1		Gray Linoleum	20% Chrysotile	
SB-20-127-008	008-1		Gray Linoleum	20% Chrysotile	
SB-20-127-009	009-1		Gray Linoleum	20% Chrysotile	
SB-20-127-010	010-1		Gray Floor Tile	4% Chrysotile	

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

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

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Overview of Project Sample Material Containing Asbestos

Customer Project:	St. Bernard Bldg 172		CA Labs Project #:	CBR20051907
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types

010-2 Black Mastic 5% Chrysotile

SB-20-127-011 011-1 Gray Floor Tile 4% Chrysotile

SB-20-127-012 012-1 Gray Floor Tile 4% Chrysotile

SB-20-127-013 013-1 Green Floor Tile 6% Chrysotile

013-2 Black Mastic 3% Chrysotile

SB-20-127-014 014-1 Green Floor Tile 6% Chrysotile

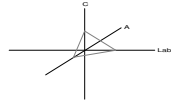
SB-20-127-015 015-1 Green Floor Tile 6% Chrysotile

015-2 Black Mastic 3% Chrysotile

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

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

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Overview of Project Sample Material Containing Asbestos

Customer Project: St. Bernard Bldg 172		CA Labs Project #: CBR20051907			
Sample #	Layer #	Analysts	Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types

SB-20-127-016	016-1		Tan Flooring	15% Chrysotile	
---------------	-------	--	--------------	----------------	--

SB-20-127-017	017-1		Tan Flooring	15% Chrysotile	
---------------	-------	--	--------------	----------------	--

SB-20-127-019	019-1		Green Surfaced White Compound	3% Chrysotile	
---------------	-------	--	-------------------------------	---------------	--

	019-2		White Compound Beneath Tape	3% Chrysotile	
--	-------	--	-----------------------------	---------------	--

SB-20-127-020	020-1		Green Surfaced White Compound	3% Chrysotile	
---------------	-------	--	-------------------------------	---------------	--

SB-20-127-021	021-1		Blue Surfaced White Compound	3% Chrysotile	
---------------	-------	--	------------------------------	---------------	--

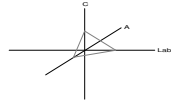
	021-2		White Compound Beneath Tape	3% Chrysotile	
--	-------	--	-----------------------------	---------------	--

SB-20-127-022	022-1		Gray Insulation	30% Amosite	
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Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

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

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Overview of Project Sample Material Containing Asbestos

Customer Project:	St. Bernard Bldg 172		CA Labs Project #:	CBR20051907
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types

SB-20-127-023 023-1 White Insulation **10% Amosite**
5% Chrysotile

SB-20-127-024 024-1 Tan Insulation **30% Amosite**

SB-20-127-037 037-1 Tan Sealant **4% Chrysotile**

SB-20-127-038 038-1 Tan Sealant **4% Chrysotile**

SB-20-127-039 039-1 Tan Sealant **4% Chrysotile**

SB-20-127-043 Various Black Tar and Felt Layers **10% Chrysotile**

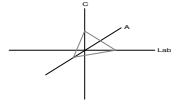
SB-20-127-044 Various Black Tar and Felt Layers **10% Chrysotile**

SB-20-127-045 Various Black Tar and Felt Layers **10% Chrysotile**

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

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

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Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Roy Dowling
SEMS, Inc
11628 S Choctaw Drive
Baton Rouge, LA 70815

Customer Project:
St. Bernard Bldg 172

CA Labs Project #:
CBR20051907

Phone # 225-924-2002
Fax # 225-924-2004

Turnaround Time: 24 hr

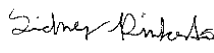
Date: 5/7/2020
Samples Received: 5/7/2020
Date Of Sampling: 5/6/2020
Purchase Order #: 1134-0007

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
SB-20-127-001		001-1	Gray Floor Tile	Y	None Detected		100% qu, ca
		001-2	Black Mastic	Y	None Detected		100% qu, ma, bi
SB-20-127-002		002-1	Gray Floor Tile	Y	None Detected		100% qu, ca
		002-2	Yellow Mastic	Y	None Detected		100% qu, bi
SB-20-127-003		003-1	Gray Floor Tile	Y	None Detected		100% qu, ca
		003-2	Yellow Mastic	Y	None Detected		100% qu, bi
SB-20-127-004		004-1	Gray Floor Tile	Y	4% Chrysotile		96% 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	mi - mica	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	qu - quartz	sy - synthetic	

Approved Signatories:

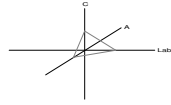

Sidney Pinkerton
Analyst

Senior Analyst
Alicia Stretz


Laboratory Director
Chris Williams

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. 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



Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Roy Dowling
SEMS, Inc
11628 S Choctaw Drive
Baton Rouge, LA 70815

Customer Project:
St. Bernard Bldg 172

CA Labs Project #:
CBR20051907

Phone # 225-924-2002
Fax # 225-924-2004

Turnaround Time: 24 hr

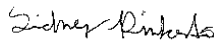
Date: 5/7/2020
Samples Received: 5/7/2020
Date Of Sampling: 5/6/2020
Purchase Order #: 1134-0007

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
10		004-2	Black Mastic	Y	None Detected		100% qu, bi
SB-20-127-005		005-1	Gray Floor Tile	Y	4% Chrysotile		96% qu, ma, ca
		005-2	Black Mastic	Y	5% Chrysotile		95% qu, bi
SB-20-127-006		006-1	Gray Floor Tile	Y	4% Chrysotile		96% qu, ma, ca
		006-2	Black Mastic	Y	None Detected		100% qu, bi
SB-20-127-007		007-1	Gray Linoleum	Y	20% Chrysotile		80% qu, ma
4		007-2	Black and Yellow Mastic	N			


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	mi - mica	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	qu - quartz	sy - synthetic	

Approved Signatories:

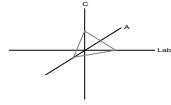

Sidney Pinkerton
Analyst

Senior Analyst
Alicia Stretz


Laboratory Director
Chris Williams

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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



Polarized Light Asbestiform Materials Characterization

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SEMS, Inc
11628 S Choctaw Drive
Baton Rouge, LA 70815

Customer Project:
St. Bernard Bldg 172

CA Labs Project #:
CBR20051907

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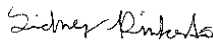
Date: 5/7/2020
Samples Received: 5/7/2020
Date Of Sampling: 5/6/2020
Purchase Order #: 1134-0007

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
SB-20-127-008		008-1	Gray Linoleum	Y	20% Chrysotile		80% qu, ma
	4	008-2	Black and Yellow Mastic	N			
SB-20-127-009		009-1	Gray Linoleum	Y	20% Chrysotile		80% qu, ma
	4	009-2	Black and Yellow Mastic	N			
SB-20-127-010		010-1	Gray Floor Tile	Y	4% Chrysotile		96% qu, ma, ca
		010-2	Black Mastic	Y	5% Chrysotile		95% qu, bi
SB-20-127-011		011-1	Gray Floor Tile	Y	4% Chrysotile		96% 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	mi - mica	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	qu - quartz	sy - synthetic	

Approved Signatories:

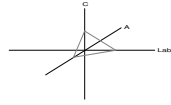

Sidney Pinkerton
Analyst

Senior Analyst
Alicia Stretz


Laboratory Director
Chris Williams

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5. Not enough sample to analyze

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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



Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** Roy Dowling
SEMS, Inc
 11628 S Choctaw Drive
 Baton Rouge, LA 70815

Customer Project:
 St. Bernard Bldg 172

CA Labs Project #:
 CBR20051907

Phone # 225-924-2002
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Turnaround Time: 24 hr

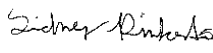
Date: 5/7/2020
Samples Received: 5/7/2020
Date Of Sampling: 5/6/2020
Purchase Order #: 1134-0007

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
			<i>011-2 Black Mastic</i>	Y	None Detected		100% qu, bi
SB-20-127-012			<i>012-1 Gray Floor Tile</i>	Y	4% Chrysotile		96% qu, ma, ca
			<i>012-2 Black Mastic</i>	Y	None Detected		100% qu, bi
SB-20-127-013			<i>013-1 Green Floor Tile</i>	Y	6% Chrysotile		94% qu, ma, ca
	7		<i>013-2 Black Mastic</i>	N	3% Chrysotile		97% qu, bi
SB-20-127-014			<i>014-1 Green Floor Tile</i>	Y	6% Chrysotile		94% qu, ma, ca
			<i>014-2 Black Mastic</i>	Y	None Detected		100% qu, bi


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.

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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	qu - quartz	sy - synthetic	

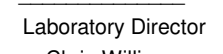
Approved Signatories:



 Sidney Pinkerton
 Analyst



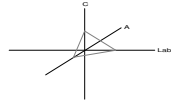
 Senior Analyst
 Alicia Stretz



 Laboratory Director
 Chris Williams

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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



Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Roy Dowling
SEMS, Inc
11628 S Choctaw Drive
Baton Rouge, LA 70815

Customer Project:
St. Bernard Bldg 172

CA Labs Project #:
CBR20051907

Phone # 225-924-2002
Fax # 225-924-2004

Turnaround Time: 24 hr

Date: 5/7/2020
Samples Received: 5/7/2020
Date Of Sampling: 5/6/2020
Purchase Order #: 1134-0007

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
SB-20-127-015		015-1	Green Floor Tile	Y	6% Chrysotile		94% qu, ma, ca
		7	015-2 Black Mastic	N	3% Chrysotile		97% qu, bi
SB-20-127-016		016-1	Tan Flooring	Y	15% Chrysotile		85% qu, ma, ca
		4	016-2 Gray Leveling Plaster	N			
SB-20-127-017		017-1	Tan Flooring	Y	15% Chrysotile		85% qu, ma, ca
		4	017-2 Gray Leveling Plaster	N			
SB-20-127-018		018-1	Gray Flooring	Y	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	mi - mica	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	qu - quartz	sy - synthetic	

Approved Signatories:

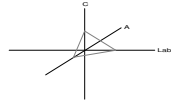
Sidney Pinkerton
Analyst

Senior Analyst
Alicia Stretz

Laboratory Director
Chris Williams

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10. TEM analysis suggested



Polarized Light Asbestiform Materials Characterization

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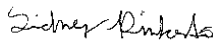
Date: 5/7/2020
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Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
SB-20-127-019		019-1	Green Surfaced White Compound	N	3% Chrysotile		97% qu, mi, ma, bi, ca
		019-2	White Compound Beneath Tape	Y	3% Chrysotile		97% qu, mi, ma, ca
		019-3	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
SB-20-127-020		020-1	Green Surfaced White Compound	N	3% Chrysotile		97% qu, mi, ma, bi, ca
		020-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
SB-20-127-021		021-1	Blue Surfaced White Compound	N	3% Chrysotile		97% qu, mi, ma, bi, ca
		021-2	White Compound Beneath Tape	Y	3% Chrysotile		97% qu, mi, ma, ca

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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	qu - quartz	sy - synthetic	

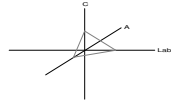
Approved Signatories:


Sidney Pinkerton
Analyst


Senior Analyst
Alicia Stretz
Laboratory Director
Chris Williams

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Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		021-3	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
SB-20-127-022		022-1	Gray Insulation	Y	30% Amosite		70% qu, ma, ca
SB-20-127-023		023-1	White Insulation	Y	10% Amosite 5% Chrysotile		85% qu, ma, ca
SB-20-127-024		024-1	Tan Insulation	Y	30% Amosite		70% qu, ma, ca
SB-20-127-025		025-1	Yellow Fibrous Insulation	Y	None Detected	100% fg	
SB-20-127-026		026-1	Yellow Fibrous Insulation	Y	None Detected	100% fg	
SB-20-127-027		027-1	Yellow Fibrous Insulation	Y	None Detected	100% fg	

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

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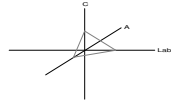
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----------	-------------	------------	---	-------------------------------	--	--------------------------------------	-------------------------------

SB-20-127-028		028-1	White Surfacing	Y	None Detected		100% qu, bi, ca
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		028-2	Yellow Ceiling Tile	Y	None Detected	100% fg	
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		028-3	Brown Mastic	Y	None Detected		100% qu, bi
--	--	-------	--------------	---	----------------------	--	-------------

SB-20-127-029		029-1	White Surfacing	Y	None Detected		100% qu, bi, ca
---------------	--	-------	-----------------	---	----------------------	--	-----------------

		029-2	Yellow Ceiling Tile	Y	None Detected	100% fg	
--	--	-------	---------------------	---	----------------------	---------	--

		029-3	Brown Mastic	Y	None Detected		100% qu, bi
--	--	-------	--------------	---	----------------------	--	-------------

SB-20-127-030		030-1	White Surfacing	Y	None Detected		100% qu, bi, ca
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Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
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Approved Signatories:

Sidney Pinkerton

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Analyst

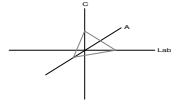
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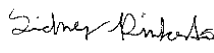
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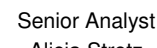
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
			030-2 Yellow Ceiling Tile	Y	None Detected	100% fg	
			030-3 Brown Mastic	Y	None Detected		100% qu, bi
SB-20-127-031			031-1 Yellow Fibrous Insulation	Y	None Detected	100% fg	
SB-20-127-032			032-1 Yellow Fibrous Insulation	Y	None Detected	100% fg	
SB-20-127-033			033-1 Gray Fibrous Insulation	Y	None Detected	100% fg	
SB-20-127-034			034-1 Yellow Fibrous Insulation	Y	None Detected	100% fg	
SB-20-127-035			035-1 Yellow Fibrous Insulation	Y	None Detected	100% fg	


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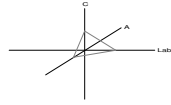

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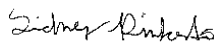
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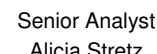
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
SB-20-127-036		036-1	Yellow Fibrous Insulation	Y	None Detected	100% fg	
SB-20-127-037		037-1	Tan Sealant	Y	4% Chrysotile	4% wo	92% qu, ma, ca
SB-20-127-038		038-1	Tan Sealant	Y	4% Chrysotile	4% wo	92% qu, ma, ca
SB-20-127-039		039-1	Tan Sealant	Y	4% Chrysotile	4% wo	92% qu, ma, ca
SB-20-127-040		040-1	White Sealant	Y	None Detected	3% wo	97% qu, ma, ca
SB-20-127-041		041-1	White Sealant	Y	None Detected	3% wo	97% qu, ma, ca
SB-20-127-042		042-1	White Sealant	Y	None Detected	3% wo	97% qu, ma, ca

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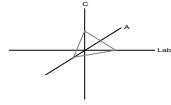

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SB-20-127-043		043-1	Various Black Tar and Felt Layers	N	10% Chrysotile	10% ce 10% fg	70% qu, ma, bi
SB-20-127-044		044-1	Various Black Tar and Felt Layers	N	10% Chrysotile	10% ce 10% fg	70% qu, ma, bi
SB-20-127-045		045-1	Various Black Tar and Felt Layers	N	10% Chrysotile	10% ce 10% fg	70% qu, ma, bi
SB-20-127-046		046-1	Yellow Fibrous Insulation	Y	None Detected	100% fg	
		046-2	Black Tar	Y	None Detected		100% qu, ma, bi
SB-20-127-047		047-1	Yellow Fibrous Insulation	Y	None Detected	100% fg	
		047-2	Black Tar	Y	None Detected		100% qu, ma, bi

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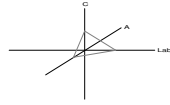
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SB-20-127- 048		048-1	Yellow Fibrous Insulation	Y	None Detected	100% fg	
		048-2	Black Tar	Y	None Detected		100% qu, ma, bi

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C.A. Labs, LLC.
12232 Industriplex
Suite 32
Baton Rouge, LA 70809

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

Chain of Custody

Client Name: Sems Inc CA Labs job # CBR 2005P107
 Client Address: 11628 S Chocoma Billing Address: _____
 (if different) _____
 phone number: 225 924 2002
 fax number: 225 924 2004 Send Reports to: Roy Dowling
 Project Number: 1134-0007 Project Name: St. Bernard Bldg. 172
 Contact: rdowling@semsinc.net Reports Results
 VIA: EMAIL FAX _____ VERBAL _____

Total # Samples Submitted: <u>48</u>	Total # Samples to be Analyzed: <u>48</u>	Material Matrix: Air / Bulk / Water
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Asbestos: *please call ahead for availability of all rush and/or after hours samples.*

TEM	TA Time	PLM	TA Time	Optical / IAQ	TA Time
<i>Circle analysis and TA time</i>		<i>Circle analysis and TA time</i>			
AHERA	4 hour	Improved	2 hour	Allergen Particle:	2 hour
EPA Level II	8 hour	Interim	4 hour	tape/bulk/swab	4 hour
Drinking Water	16 hour		8 hour	Cyclex-d cassettes	8 hour
Wipe	24 hour	AHERA	16 hour	Air-o-cell cassettes	16 hour
Micro-vac	2 days		24 hour	Anderson cultures	24 hour
NIOSH 7402	3 days	Point Count -	2 days	Bulk/swab cultures	2 days
Chatfield Bulk	5 days	(NESHAPS)	3 days	Bacteria cultures	3 days
			5 days	PCM: NIOSH 7400	5-10 days

Lead: *Circle analysis and TA time*

Matrix:	Paint Chips	Soil	Air	Wipes	Wastewater	TCLP
TA Time:	8 hour	1 day	2 days	3 days	5 days	6-10 days

Sample Information:

Sample Number:	Sample Location:	Sample Date/Time:	Sample Volume (L)
SB-20-127-001	East lobby East	5-6-20	
SB-20-127-002	SE office center		
SB-20-127-003	NE office center		
SB-20-127-004	East lobby north		
SB-20-127-005	SE office center		

\\data\wordpro\forms\ChainofCustody.lwp Revision 2 3/12/01 Page 1

Custody Information:

Samples relinquished: [Signature] 5-7-20 10:30
Signature / Date / Time

Samples received: Jennifer Wafers 10:30 AM
Signature / Date / Time

Samples relinquished: _____
Signature / Date / Time

Samples received: _____
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

Client Name: _____ CA Labs job # 2051907 CBR

Client Address: _____ Billing Address: _____
(if different) _____

phone number: _____

fax number: _____ Send Reports to: _____

Project Number: _____ Project Name: _____

Contact: _____ Reports Results
VIA: EMAIL _____ FAX _____ VERBAL _____

Sample Number:	Sample Location:	Sample Date/Time:	Sample Volume (L)
SB.20.127.006	NE office center	5-6-20	
SB.20.127.007	West hall south		
SB.20.127.008	NE office west		
SB.20.127.009	East hall south		
SB.20.127.010	S center office North		
SB.20.127.011	SW office 2 NW		
SB.20.127.012	NW office 1 center		
SB.20.127.013	SE office 2 center		
SB.20.127.014	SE office 2 South		
SB.20.127.015	SE office 2 SE		
SB.20.127.016	SW office 1 center		
SB.20.127.017	SW office 1 South		
SB.20.127.018	SW office 1 north		
SB.20.127.019	NE office NE		
SB.20.127.020	S Lobby S		
SB.20.127.021	N Lobby S		
SB.20.127.022	E office E		
SB.20.127.023	SW office 2 NE		
SB.20.127.024	SW office 2 SW		
SB.20.127.025	East office E		
SB.20.127.026	SW office 2 NW		
SB.20.127.027	SW office 1 N		
SB.20.127.028	East lobby N		
SB.20.127.029	East lobby S		

For internal use:
Any initial changes regarding project (indicate yes by checking line) _____

Custody Information:
Samples relinquished: _____
Signature / Date / Time

Samples received: _____
Signature / Date / Time

Samples relinquished: _____
Signature / Date / Time

Samples received: _____
Signature / Date / Time

5/7/20
10:30 AM

Jennifer Waters



12232 Industriplex
Suite 32
Baton Rouge, LA 70809

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

Client Name: _____ CA Labs job # **CBR 2005907**

Client Address: _____ Billing Address: _____
(if different) _____

phone number: _____

fax number: _____ Send Reports to: _____

Project Number: _____ Project Name: _____

Contact: _____ Reports Results
VIA: EMAIL _____ FAX _____ VERBAL _____

Sample Number:	Sample Location:	Sample Date/Time:	Sample Volume (L)
SB-20-127-030	NW office 1 center	5-6-20	
SB-20-127-031	East lobby South		
SB-20-127-032	South lobby North		
SB-20-127-033	NW office 1 east		
SB-20-127-034	NE office SE		
SB-20-127-035	NE office west		
SB-20-127-036	SW office 2 east		
SB-20-127-037	NE window		
SB-20-127-038	E window		
SB-20-127-039	SE window		
SB-20-127-040	NE window		
SB-20-127-041	E window		
SB-20-127-042	SE window		
SB-20-127-043	South SE		
SB-20-127-044	South E		
SB-20-127-045	South S		
SB-20-127-046	South SE		
SB-20-127-047	South E		
SB-20-127-048	South S		

For internal use:
Any initial changes regarding project (indicate yes by checking line) _____

5/7/20
10:20
AM

Custody Information:

Samples relinquished: [Signature] 5-7-20 1:30 Signature / Date / Time

Samples received: Jennifer Wafers Signature / Date / Time

Samples relinquished: _____ Signature / Date / Time

Samples received: _____ Signature / Date / Time

APPENDIX D
PHOTOGRAPHS

ST. BERNARD PORT
LIMITED ASBESTOS INSPECTION – BUILDING 172
100 PORT BOULEVARD, CHALMETTE, LOUISIANA
MAY 6, 2020



SB-20-127-001



SB-20-127-002



SB-20-127-003



SB-20-127-004

ST. BERNARD PORT
LIMITED ASBESTOS INSPECTION – BUILDING 172
100 PORT BOULEVARD, CHALMETTE, LOUISIANA
MAY 6, 2020



SB-20-127-005



SB-20-127-006



SB-20-127-007



SB-20-127-008

ST. BERNARD PORT
LIMITED ASBESTOS INSPECTION – BUILDING 172
100 PORT BOULEVARD, CHALMETTE, LOUISIANA
MAY 6, 2020



SB-20-127-009



SB-20-127-010



SB-20-127-011



SB-20-127-012

ST. BERNARD PORT
LIMITED ASBESTOS INSPECTION – BUILDING 172
100 PORT BOULEVARD, CHALMETTE, LOUISIANA
MAY 6, 2020



SB-20-127-013



SB-20-127-014



SB-20-127-015



SB-20-127-016

ST. BERNARD PORT
LIMITED ASBESTOS INSPECTION – BUIDING 172
100 PORT BOULEVARD, CHALMETTE, LOUISIANA
MAY 6, 2020



SB-20-127-017



SB-20-127-018



SB-20-127-019



SB-20-127-020

ST. BERNARD PORT
LIMITED ASBESTOS INSPECTION – BUILDING 172
100 PORT BOULEVARD, CHALMETTE, LOUISIANA
MAY 6, 2020



SB-20-127-021



SB-20-127-022



SB-20-127-023



SB-20-127-024

ST. BERNARD PORT
LIMITED ASBESTOS INSPECTION – BUILDING 172
100 PORT BOULEVARD, CHALMETTE, LOUISIANA
MAY 6, 2020



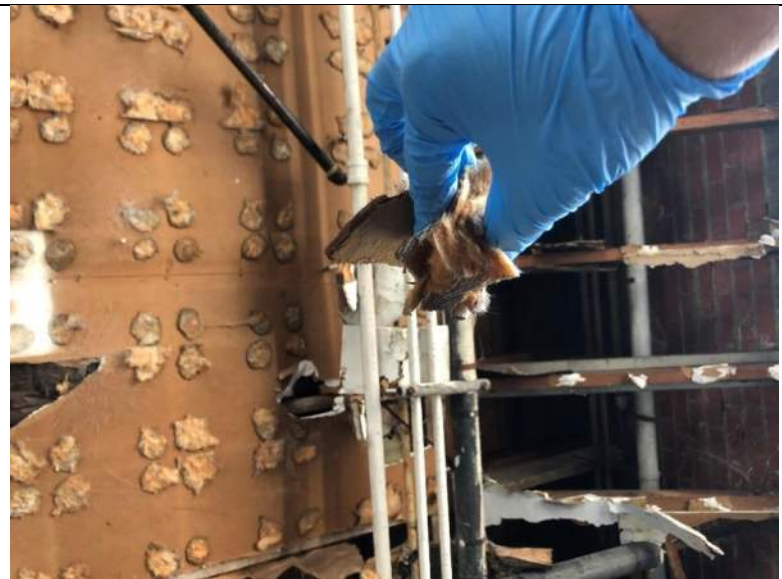
SB-20-127-025



SB-20-127-026



SB-20-127-027



SB-20-127-028

ST. BERNARD PORT
LIMITED ASBESTOS INSPECTION – BUILDING 172
100 PORT BOULEVARD, CHALMETTE, LOUISIANA
MAY 6, 2020



SB-20-127-029



SB-20-127-030



SB-20-127-031



SB-20-127-032

ST. BERNARD PORT
LIMITED ASBESTOS INSPECTION – BUIDING 172
100 PORT BOULEVARD, CHALMETTE, LOUISIANA
MAY 6, 2020



SB-20-127-033



SB-20-127-034



SB-20-127-035

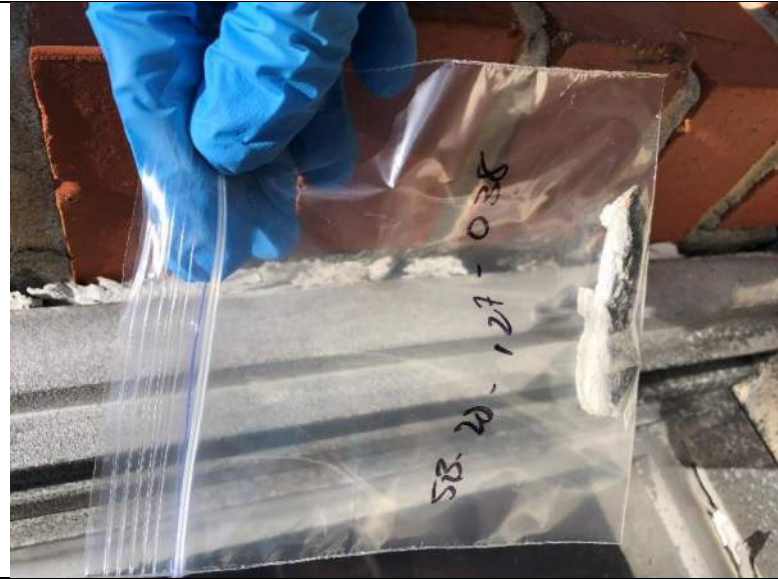


SB-20-127-036

ST. BERNARD PORT
LIMITED ASBESTOS INSPECTION – BUILDING 172
100 PORT BOULEVARD, CHALMETTE, LOUISIANA
MAY 6, 2020



SB-20-127-037



SB-20-127-038



SB-20-127-039



SB-20-127-040

ST. BERNARD PORT
LIMITED ASBESTOS INSPECTION – BUILDING 172
100 PORT BOULEVARD, CHALMETTE, LOUISIANA
MAY 6, 2020



SB-20-127-041



SB-20-127-042



SB-20-127-043



SB-20-127-044

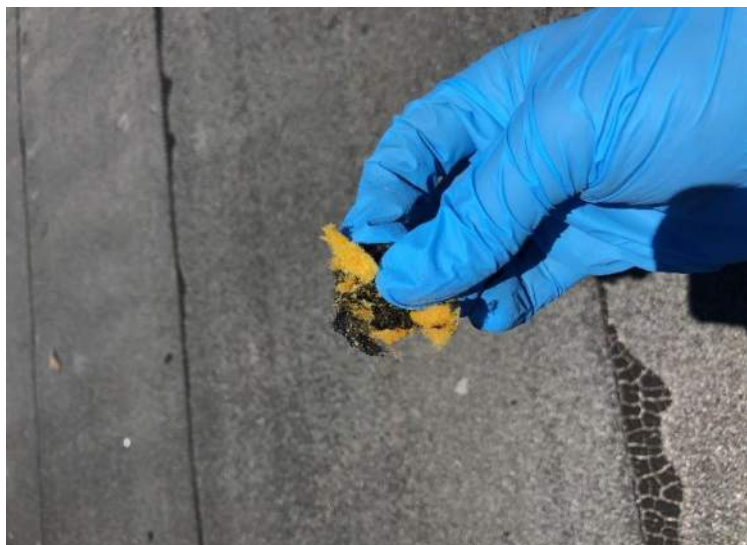
ST. BERNARD PORT
LIMITED ASBESTOS INSPECTION – BUILDING 172
100 PORT BOULEVARD, CHALMETTE, LOUISIANA
MAY 6, 2020



SB-20-127-045



SB-20-127-046



SB-20-127-047



SB-20-127-048