Seagull Environmental Technologies, Inc.

121 NE 72nd Street
Gladstone, Missouri 64118
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November 11, 2021

Mr. Wes March
Environmental Specialist
Missouri Department of Natural Resources
Brownfields/Voluntary Cleanup Program
Jefferson City, Missouri 65102

Subject: **Asbestos-Containing Materials and Lead-Based Paint Inspection Report**
Former Wyman High School Site, Excelsior Springs, Missouri
Missouri Environmental Assessment Services Contract, Contract No. CS210096002
Vendor No. 48120656000

Dear Mr. March:

Seagull Environmental Technologies, Inc. (Seagull) is submitting the attached Asbestos-Containing Materials (ACM) and Lead-Based Paint (LBP) Inspection report for the Former Wyman High School site in Excelsior Springs, Missouri. If you have any questions or comments, please contact the project manager at (913) 908-4695.

Sincerely,

Lynn Parman

Lynn Parman, PG, CHMM
Project Manager
Missouri Asbestos Inspector Cert. No.: 7011100220MOII21284
Missouri Lead-Based Paint Inspector License No.: 210209-300006105

Hieu Q. Vu, PE
Project Director

Enclosures

ASBESTOS-CONTAINING MATERIALS AND LEAD-BASED PAINT INSPECTION

FORMER WYMAN HIGH SCHOOL SITE
EXCELSIOR SPRINGS, MISSOURI

Missouri Environmental Assessment Services Contract

Contract No. CS210096002
Vendor No. 48120656000

Prepared For:

Missouri Department of Natural Resources – Brownfields/Voluntary Cleanup Program
P.O. Box 176
Jefferson City, Missouri 65102

November 11, 2021

Prepared By:

Seagull Environmental Technologies, Inc.
121 NE 72nd Street
Gladstone, Missouri 64118

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EXECUTIVE SUMMARY

Seagull Environmental Technologies, Inc. (Seagull) was tasked by the Missouri Department of Natural Resources (MDNR) Brownfields/Voluntary Cleanup Program (BVCP) to conduct asbestos-containing material (ACM) and lead-based paint (LBP) inspections at the Former Wyman High School site in Excelsior Springs, Missouri. The property encompasses 1.76 acres and includes a large, vacant, three-story, brick building previously used as a public school. The former school building is planned to be redeveloped as low-income apartments. A second smaller structure at the property, formerly used as a heating plant, is planned to be demolished. The scope of field activities for this project included inspections of the buildings for ACM and LBP.

Inspection activities at the site were conducted on October 12 and 13, 2021. For the asbestos inspection, suspect ACM was sampled to quantify asbestos in the material. Paint-covered surfaces were screened with an x-ray fluorescence (XRF) spectrometer to determine the presence and quantity of LBP. Findings and recommendations from the inspections were as follows:

Asbestos-Containing Materials

Thirty-five samples of 11 suspect bulk structural materials were collected from the former school building (floor tiles and mastic, sheet vinyl, wallboard, plaster, cove base and mastic, chalkboards, tank insulation, and duct tape), and two samples of one suspect material (roofing material) were collected from the former heating plant. All samples were submitted for laboratory analysis of asbestos by polarized light microscopy (PLM). Four of those materials—all associated with the former school building—were found to contain asbestos, including 9-inch by 9-inch floor tiles (two types), 12-inch by 12-inch floor tiles, and sheet vinyl flooring. Asbestos (chrysotile) concentrations in those materials ranged from 2 to 15 percent (%). EPA defines ACM as any material containing asbestos at a concentration above 1%. Based on these results, all vinyl floor coverings (tiles and sheet material) in the former school building were determined to be ACM. No ACM was identified in the former heating plant building. Future demolition or renovations (including abatement and disposal activities) that could disturb the ACM should be conducted in accordance with applicable local, state, and federal regulations.

Lead-Based Paint

For the LBP inspection, 399 XRF readings were taken of painted structural surfaces at the former school building. Lead concentrations $\geq$ 1.0 milligram per square centimeter (mg/cm^2) are considered LBP. LBP was identified at the former school building on several wooden window frames on the second and third floors (at concentrations up to 3.76 mg/cm^2), and on numerous painted walls (mostly plaster) throughout

the building (at concentrations up to 5.00 mg/cm^2). Plaster walls where LBP was identified were divided into upper and lower sections separated by horizontal trim about 4 feet above the floor; only lower wall sections were found to contain LBP. On the second floor, one vertical water pipe and metal walls and doors for stalls in a bathroom also tested positive for LBP (at concentrations up to 2.03 mg/cm^2). On the exterior of the building, minimal painted surfaces are present (wooden doorframes, window frames, and trim), and most could not be accessed for screening. However, two exterior doorframes were screened, and both were positive for LBP (at concentrations up to 4.24 mg/cm^2). Because all exterior paint appeared to be the same color and age (based on degree of weathering), Seagull assumes all exterior paint is likely LBP. Most interior and exterior painted surfaces at the building were severely chipped/peeling. The only paint observed at the former heating plant was on a small amount of exterior trim, where the paint was also severely chipped/peeling; no XRF readings were taken at the former heating plant at the direction of MDNR (based on plans for the building to be demolished). Future demolition or renovations (including abatement and disposal activities) that could disturb the LBP should be conducted in accordance with applicable local, state, and federal regulations.

1.0 INTRODUCTION

Seagull Environmental Technologies, Inc. (Seagull) was tasked by the Missouri Department of Natural Resources (MDNR) Brownfields/Voluntary Cleanup Program (BVCP) to conduct asbestos-containing material (ACM) and lead-based paint (LBP) inspections at the Former Wyman High School site in Excelsior Springs, Missouri. The property encompasses 1.76 acres and includes a large, vacant, three-story, brick building previously used as a public school. The former school building is planned to be redeveloped as low-income apartments. A second structure at the property, formerly used as a heating plant, is planned to be demolished. The scope of field activities for this project included inspections of the buildings for ACM and LBP. For the purposes of this inspection report, the Former Wyman High School property will hereafter be referred to as the "subject property" or "site." The following sections address the site location and description, ACM and LBP inspection activities, presentation and evaluation of analytical results, and discussion of findings and recommendations.

1.1 PURPOSE

The purpose of the ACM and LBP inspections described in this report was to evaluate the site buildings for presence, quantity, locations, and characterization of ACM and LBP that may require abatement prior to renovation or demolition activities in accordance with applicable federal, state, and local regulations. Suspect ACM was sampled for laboratory analysis to confirm its presence and to quantify the material, and paint-covered surfaces were screened with an x-ray fluorescence spectrometer (XRF) to determine the presence and quantity of LBP. This report was prepared for use and reliance by the City of Excelsior Springs (property owner), Frontier Property Management, LLC (prospective purchaser), MDNR, and all other authorized parties (users).

1.2 SPECIAL TERMS AND CONDITIONS

No special terms or conditions were identified for this project.

2.0 SITE LOCATION AND DESCRIPTION

The site consists of a 1.76-acre parcel at 108 Dunbar Avenue in the City of Excelsior Springs, Clay County, Missouri (see Appendix A, Figures 1 and 2). The site is located in the southwest quarter of Section 1, Township 52 North, Range 30 West (U.S. Geological Survey 2021). Coordinates for the approximate center of the property are 39.342661 degrees north latitude and 94.228363 degrees west

longitude. The population of Excelsior Springs in 2019 was approximately 11,731 (U.S. Census Bureau 2021). The property generally slopes to the southeast.

The property contains a three-story structure with brick exterior walls that sits on a limestone foundation with a footprint of approximately 8,000 square feet (ft^2). A small lower level, which includes an auditorium, is also present at the south end of the building. The building was previously used as a high school and elementary school. The front of the building faces east. Two entrance doors are on the east side of the building, one door is on the south side (for the auditorium), one door is on the west side, and emergency exits for the second and third floors are on the north and south sides. Painted plaster covers the interior side of the perimeter walls, and walls for interior room partitions are composed of wood studs and either laths with painted plaster coverings or wallboard. Walls are 20 feet tall in the auditorium, 13 to 14 feet tall on the first floor, and 12 feet tall on the second and third floors. Floors and/or floor coverings in the building are composed of either exposed concrete, hardwood, sheet vinyl, or vinyl tiles, and ceilings are plaster.

A two-story brick building with a tall chimney and a footprint of approximately 750 ft^2 that was formerly used as a heating plant (i.e., housed a boiler system for the school) is south of the former school building. The second floor of the building is no longer present. All interior walls are brick, no floor coverings are present (or if present, are covered by sediment and debris), and the ceiling joists are exposed (no overlying ceiling material). The former school and heating plant buildings have flat bitumen roofs. Both buildings are currently vacant. A driveway from Bellmere Avenue is on the north side of the former school building that leads to a paved area on the west side of the building. A paved area is also south of the building (accessible from Henrie Avenue by a driveway on the south side of the former heating plant), and a grassy area is to the east. The two paved areas were likely used as parking lots/playground areas for the school.

3.0 INSPECTION ACTIVITIES

The following sections describe the scope of the asbestos and LBP inspections and field exploration and methods.

3.1 SCOPE OF THE INSPECTIONS

Seagull field team members Lynn Parman and Quan Do conducted site activities to identify and quantify ACM and LBP associated with the site buildings. Findings from the inspections could be used to

determine proper renovation or demolition techniques and evaluate disposal options for contaminated materials. Photographs were taken to document the site activities and are included in Appendix B.

3.1.1 Sampling/Screening Methodology

Samples for analysis of asbestos were collected in accordance with National Emissions Standards for Hazardous Air Pollutants (NESHAP), as adopted by the U.S. Environmental Protection Agency (EPA), and Asbestos Hazard Emergency Response Act of 1986 (AHERA) protocols. Thirty-seven samples of 12 bulk structural materials were collected for analysis of asbestos. Paint-covered surfaces were screened with an XRF spectrometer to determine the presence and quantity of LBP; 399 XRF readings were recorded. No paint chip samples for laboratory analysis of lead were collected. Sampling/screening methods and activities are described in Section 3.2.

3.1.2 Laboratory Analysis

Samples of bulk structural materials were analyzed for asbestos per EPA Method 600/R-93/116, by polarized light microscopy (PLM). All samples were analyzed by Quantem Laboratories (Quantem) in Oklahoma City, Oklahoma. Quantem is a National Voluntary Laboratory Accreditation Program (NVLAP)-certified laboratory, certification number 101959-0.

3.2 FIELD EXPLORATION AND METHODS

Field activities at the site were conducted on October 12 and 13, 2021. Mr. Brandon Carty, Code Compliance Officer for the City of Excelsior Springs, provided access to the buildings.

3.2.1 Asbestos Inspection

The Seagull asbestos inspection team consisted of Lynn Parman (Missouri-certified asbestos inspector [Certification Number: 7011100220MOII21284]) and Quan Do. All areas of the former school building and heating plant building were accessible for inspection except for the southwest corner of the former heating plant building, where several inches of water were on the floor due to recent rainfall (a portion of the roof had collapsed, allowing rainfall to enter the structure). Also, the roof of the former school building was determined unsafe to access, so it was not inspected.

The sampling scheme for collection of suspect ACM was biased/judgmental. For the ACM sampling, minor demolition of materials (destructive sampling) was required. Multiple samples of each suspect ACM were collected, utilizing methods and procedures consistent with good commercial or customary

practices designed to conform with acceptable industry standards. The number of samples collected of each type of material typically depends on the category (surfacing material, thermal system insulation, or miscellaneous) and quantity of the material. It should be noted that no technical drawings of mechanical, plumbing, or electrical systems for the buildings were available to the Seagull field team; therefore, the inspection was based only on visible materials.

No insulation was observed in exterior walls or ceilings of the former school building. Some insulation that appeared to be fiberglass batts (based on color and texture) was observed in interior walls (that had been finished with wallboard) of the building. The only thermal system insulation (TSI) observed was wrapped around a small overhead water tank in Room 13. No elevators are in the building.

No suspect ACM was identified inside the former heating plant building, which contained 3-6 inches of rainwater on a dirt floor. The roof has collapsed in the north portion of the building. A furnace and other equipment remain in the building, but no TSI, gaskets, or other suspect ACM associated with the former heating equipment were observed.

The Seagull inspection team assigned a sequential number to each functional space (room, area, etc.) associated with the former school building (see Figures 3-6 in Appendix A). In the former school building, 11 homogeneous sampling areas (HSA) (all interior) were identified, based on color and texture of suspect materials. Samples were collected from each of these HSAs. The only identified suspect ACM associated with the former heating plant building was roofing material, which was also sampled for laboratory analysis. Samples of suspect materials were collected in a random fashion to acquire representative results for each HSA (see Table C-1 in Appendix C). Suspect materials were further assessed to document their condition and potential for disturbance (see Table C-2 in Appendix C). Table 1 below summarizes the HSAs.

TABLE 1

HOMOGENEOUS SAMPLING AREAS
FORMER WYMAN HIGH SCHOOL, EXCELSIOR SPRINGS, MISSOURI

Homogeneous Sampling Area	Description
FT1	9" X 9" floor tile & mastic (mostly first floor in former school)
FT2	12" X 12" floor tile & mastic (scattered throughout former school)
FT3	9" X 9" floor tile & mastic (second & third floors in former school)
WB1	Wallboard (several rooms in former school)
SV1	Sheet vinyl flooring (Room 21 in former school)
TI1	Tank insulation (Room 13 in former school)

Homogeneous Sampling Area	Description
DT1	Duct tape (Room 13 in former school)
CB1	Cove base & mastic (second & third floors in former school)
PL1	Plaster (throughout former school)
BB1	Chalkboard (throughout former school)
WB2	Wallboard & mastic (auditorium in former school)
RM1	Roofing material (former heating plant)

Notes:

" Inch

During the inspection, bulk samples of suspect ACM were collected in a manner to ensure that each distinct layer of material was represented in the samples. All samples were placed in plastic Whirl-Pak® bags, labeled, and sealed immediately upon collection. The sampling instruments were wiped clean using a wet, lint-free cloth after collection of each sample to prevent cross-contamination between samples. A unique identification number was assigned to each sample. In all, 37 samples of 12 bulk materials were collected from the former school building and former heating plant building during the asbestos inspection activities. All samples remained in Seagull's custody until they were delivered, along with a chain-of-custody record, to Quantem for analysis of asbestos.

3.2.2 Lead-Based Paint Inspection

The Seagull LBP inspection team consisted of Lynn Parman (Missouri-licensed lead-based paint inspector [License Number: 210209-300006105]) and Quan Do. Seagull is licensed in Missouri as a Lead Abatement Contractor (License Number: 111026-4457). All areas of the former school building and heating plant with painted surfaces were accessible for inspection.

An Olympus Vanta C Series XRF (Model: VCA, Serial Number: 821514) was used to perform the LBP inspection. The XRF provides a quantitative in-situ measurement of lead in paint on various substrates. At the beginning and end of the survey and at least every 4 hours during screening, Seagull performed XRF standard checks according to the instrument manufacturer's recommended procedures, and all readings were within acceptable limits (see Table D-1 in Appendix D). The LBP inspection protocol involved a systematic screening of interior and exterior paint-covered surfaces. Paint-covered surfaces indicated by the XRF to contain lead at a concentration equal to or greater than ($\geq$) 1.0 milligram per square centimeter (mg/cm^2) would be considered LBP. During the inspection, LBP was identified at the former school building on several wooden window frames on the second and third floors (at concentrations up to 3.76 mg/cm^2), and on numerous painted walls (mostly plaster) throughout the

building (at concentrations up to 5.00 mg/cm^2). Plaster walls where LBP was identified were divided into upper and lower sections separated by horizontal trim about 4 feet above the floor; only lower wall sections were found to contain LBP. On the second floor, one vertical water pipe and metal walls and doors for stalls in a bathroom also tested positive for LBP (at concentrations up to 2.03 mg/cm^2). Most ceilings were not screened due to their inaccessible height; however, because upper portions of walls were negative for LBP, Seagull assumed the adjacent ceilings (with similar-appearing paint) would likely be negative as well. On the exterior of the building, minimal painted surfaces are present (wooden doorframes, window frames, and trim), and most could not be accessed for screening. However, two exterior doorframes were screened, and both were positive for LBP (at concentrations up to 4.24 mg/cm^2). Because all exterior paint appeared to be the same color and age (based on degree of weathering), Seagull assumes all exterior paint is likely LBP. Most interior and exterior painted surfaces at the building were severely chipped/peeling.

The only paint observed at the former heating plant was on a small amount of exterior trim, where the paint was also severely chipped/peeling; no XRF readings were taken at the former heating plant at the direction of MDNR (based on plans for the building to be demolished). Photos of locations where LBP was identified at the site are included in Appendix B. Those locations are also shown on Figures 7-10 in Appendix A. Tables D-2 through D-5 in Appendix D summarize all screened materials, locations, quantities, and XRF results.

4.0 ACM SAMPLE RESULTS

For the asbestos inspection, 37 samples of 12 bulk materials were submitted to Quantem for analysis of asbestos. EPA defines ACM as any material containing asbestos at a concentration above 1 percent (%). Four of the sampled materials associated with the former school building were determined to contain asbestos. Those materials included 9-inch by 9-inch floor tiles (two types), 12-inch by 12-inch floor tiles, and sheet vinyl flooring. Those materials contained asbestos (chrysotile) at concentrations ranging from 2 to 15%. It should be noted that sheet vinyl flooring in Room 21 had been placed over floor tiles which also tested positive for ACM (in one sample—SV1-2). Flooring in Room 22 could not be identified due to fire damage and resulting debris in that area. Table 2 below summarizes the materials determined to contain asbestos during the inspection, along with their locations, quantities, and laboratory results.

Based on these results, all vinyl floor coverings (tiles and sheet material) in the former school building were determined to be ACM. Those materials were located in Rooms 5, 5a, 9, 10, 15-17, 19, 21, 23-28, 30-42, 44, and 45 (see Appendix A, Figures 3-6). Photographs of materials sampled for asbestos analysis

are included in Appendix B. The complete analytical data package for the asbestos samples is included in Appendix E.

TABLE 2

ASBESTOS-CONTAINING MATERIALS
FORMER WYMAN HIGH SCHOOL, EXCELSIOR SPRINGS, MISSOURI

Homogeneous Sampling Area	Functional Space[a]	Description of Material	Estimated Quantity	Asbestos Result
FT1	Rooms 5, 5a, 9, & east end of 19	9" X 9" floor tile & mastic	670 ft^2	Tile ─ 2% Chrysotile Mastic ─ Asbestos not present
FT2	Throughout former school building[b]	12" X 12" floor tile & mastic	1,000 ft^2	Tile ─ 2% Chrysotile Mastic ─ Asbestos not present
FT3	Rooms 15-17, 23-28, 30-34, 36-42, 44, & 45	9" X 9" floor tile & mastic	11,000 ft^2	Tile ─ 8% Chrysotile Mastic ─ Asbestos not present
SV1	Room 21	Sheet vinyl flooring[c]	240 ft^2	Sheet vinyl ─ 15% Chrysotile Tile ─ 8% Chrysotile Mastic ─ Asbestos not present

Notes:

[a] See Figures 3-6 in Appendix A for floorplans.
[b] This tile has been used sporadically throughout the building to patch areas adjacent to, or surrounded by, 9" X 9" floor tile.
[c] One sample of this material also contained underlying floor tile and mastic.

ft^2 Square feet
" Inch
% Percent

5.0 SUMMARY AND RECOMMENDATIONS

On October 12 and 13, 2021, Seagull conducted an inspection at the Former Wyman High School property in Excelsior Springs, Missouri. The purpose of the inspection was to evaluate the buildings at the property for presence, quantity, locations, and characterization of ACM and LBP that may require abatement prior to renovation (or demolition) in accordance with applicable federal, state, and local regulations. A summary of the findings and recommendations follows:

Asbestos-Containing Materials

Thirty-five samples of 11 suspect bulk structural materials were collected from the former school building (floor tiles and mastic, sheet vinyl, wallboard, plaster, cove base and mastic, chalkboards, tank insulation, and duct tape), and two samples of one suspect material (roofing material) were collected from the former heating plant. All samples were submitted for laboratory analysis of asbestos by PLM. Four of those materials—all associated with the former school building—were found to contain asbestos, including 9-inch by 9-inch floor tiles (two types), 12-inch by 12-inch floor tiles, and sheet vinyl flooring. Asbestos

(chrysotile) concentrations in those materials ranged from 2 to 15%. EPA defines ACM as any material containing asbestos at a concentration above 1%. Based on these results, all vinyl floor coverings (tiles and sheet material) in the former school building were determined to be ACM. No ACM was identified in the former heating plant building. Future demolition or renovations (including abatement and disposal activities) that could disturb the ACM should be conducted in accordance with applicable local, state, and federal regulations.

Lead-Based Paint

For the LBP inspection, 399 XRF readings were taken of painted structural surfaces at the former school building. Lead concentrations $\geq$ 1.0 mg/cm^2 are considered LBP. LBP was identified at the former school building on several wooden window frames on the second and third floors (at concentrations up to 3.76 mg/cm^2), and on numerous painted walls (mostly plaster) throughout the building (at concentrations up to 5.00 mg/cm^2). Plaster walls where LBP was identified were divided into upper and lower sections separated by horizontal trim about 4 feet above the floor; only lower wall sections were found to contain LBP. On the second floor, one vertical water pipe and metal walls and doors for stalls in a bathroom also tested positive for LBP (at concentrations up to 2.03 mg/cm^2). On the exterior of the building, minimal painted surfaces are present (wooden doorframes, window frames, and trim), and most could not be accessed for screening. However, two exterior doorframes were screened, and both were positive for LBP (at concentrations up to 4.24 mg/cm^2). Because all exterior paint appeared to be the same color and age (based on degree of weathering), Seagull assumes all exterior paint is likely LBP. Most interior and exterior painted surfaces at the building were severely chipped/peeling. The only paint observed at the former heating plant was on a small amount of exterior trim, where the paint was also severely chipped/peeling; no XRF readings were taken at the former heating plant at the direction of MDNR (based on plans for the building to be demolished). Future demolition or renovations (including abatement and disposal activities) that could disturb the LBP should be conducted in accordance with applicable local, state, and federal regulations.

6.0 REFERENCES

U.S. Census Bureau. 2021. QuickFacts for Excelsior Springs, Missouri. Estimated population in 2019. https://www.census.gov/quickfacts/excelsiorspringscitymissouri

U.S. Geological Survey. 2021. Excelsior Springs, Missouri, 7.5-minute Series Topographic Quadrangle Map.

APPENDIX A

FIGURES

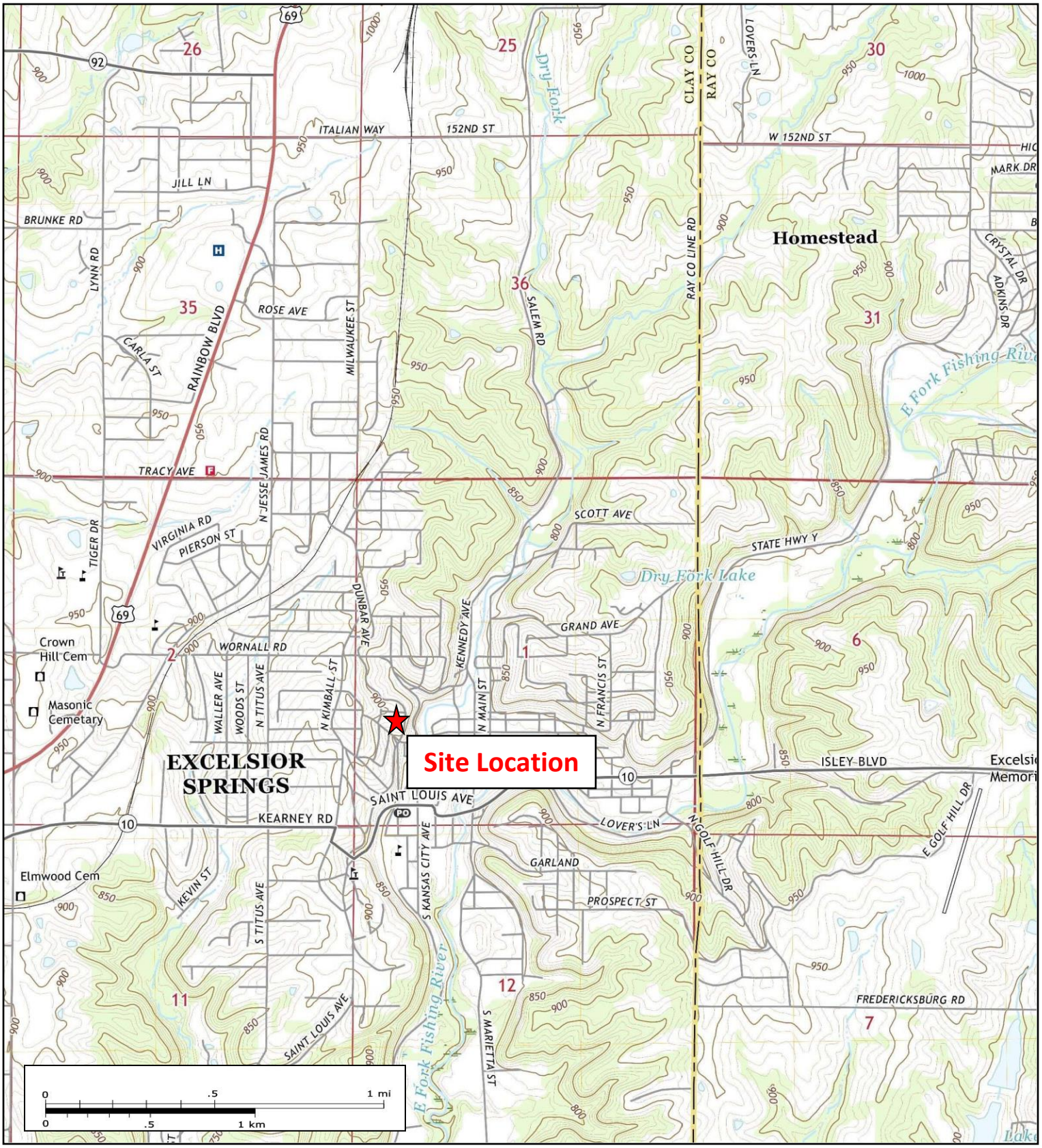


Figure 1
Site Location Map

Former Wyman High School Site
Excelsior Springs, Missouri

Seagull Environmental Technologies, Inc.

Source: USGS Excelsior Springs, MO 7.5-Minute Topo Quad, 2021

Date: November 2021

Project No: MOESA109EA1

Figure 2
Site Aerial Map

Former Wyman High School Site
Excelsior Springs, Missouri

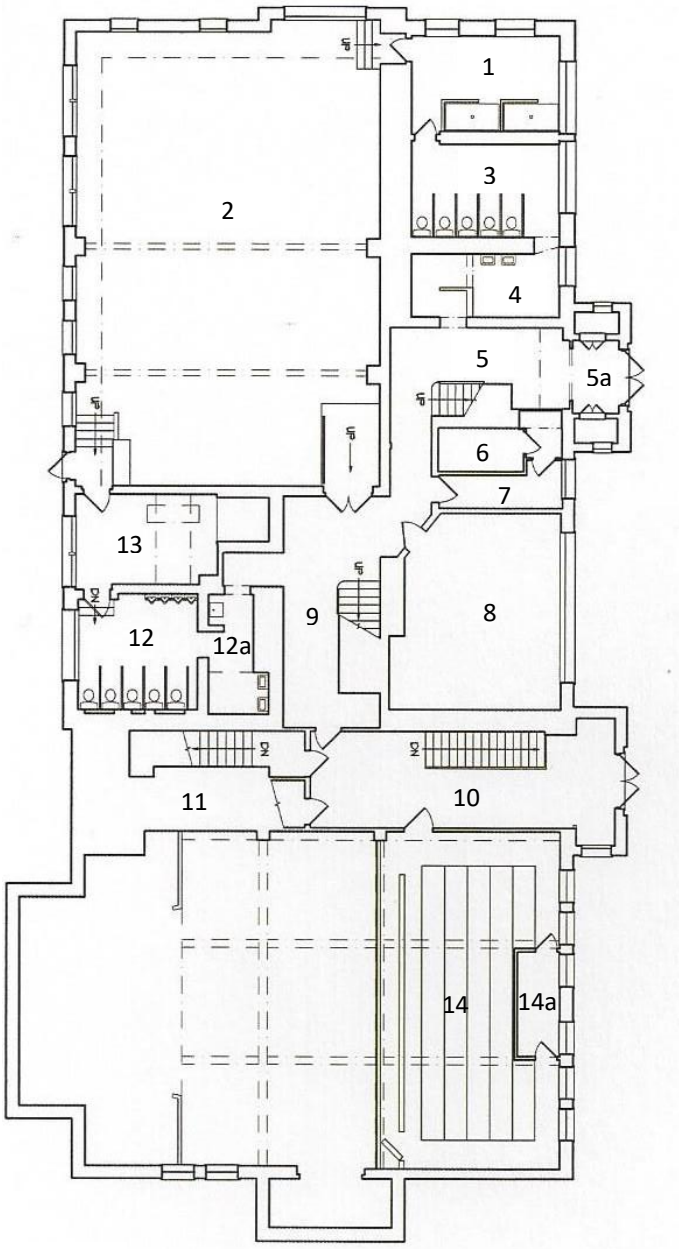
Seagull Environmental Technologies, Inc.

N
W E
S

Source: Google Earth Imagery, 2021

Date: November 2021

Project No.: MOESA109EA1



Note: Functional spaces are numbered.

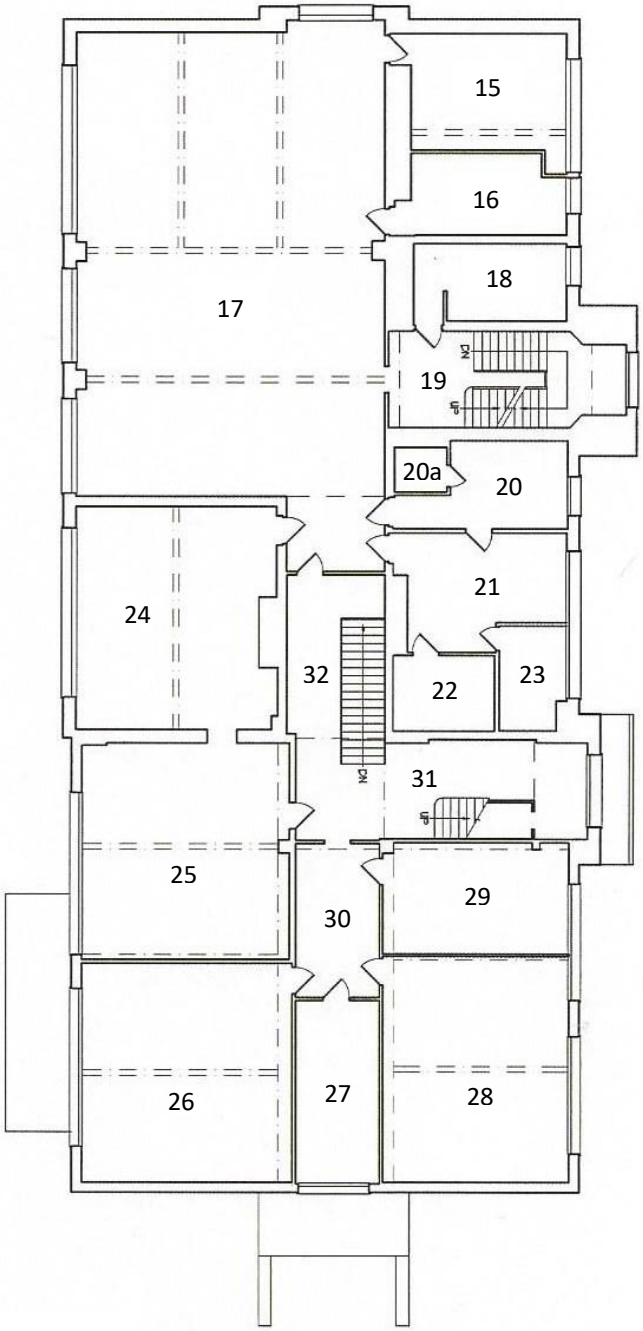
Figure 3
Floorplan of First Floor

Former Wyman High School Site
Excelsior Springs, Missouri

Seagull Environmental Technologies, Inc.

N
W
E
S

Date: November 2021 | Drawing is to scale | Project No.: MOESA109EA1



Note: Functional spaces are numbered.

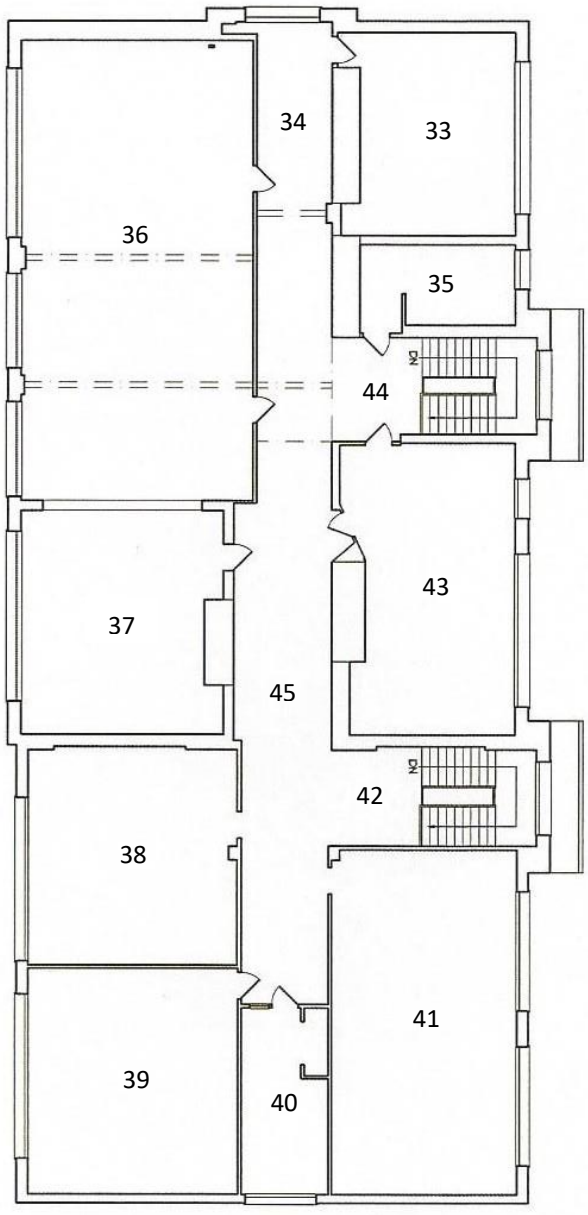
Figure 4
Floorplan of Second Floor

Former Wyman High School Site
Excelsior Springs, Missouri

Seagull Environmental Technologies, Inc.

N
W
E
S

Date: November 2021 | Drawing is to scale | Project No.: MOESA109EA1



Note: Functional spaces are numbered.

Figure 5
Floorplan of Third Floor

Former Wyman High School Site
Excelsior Springs, Missouri

Seagull Environmental Technologies, Inc.

N
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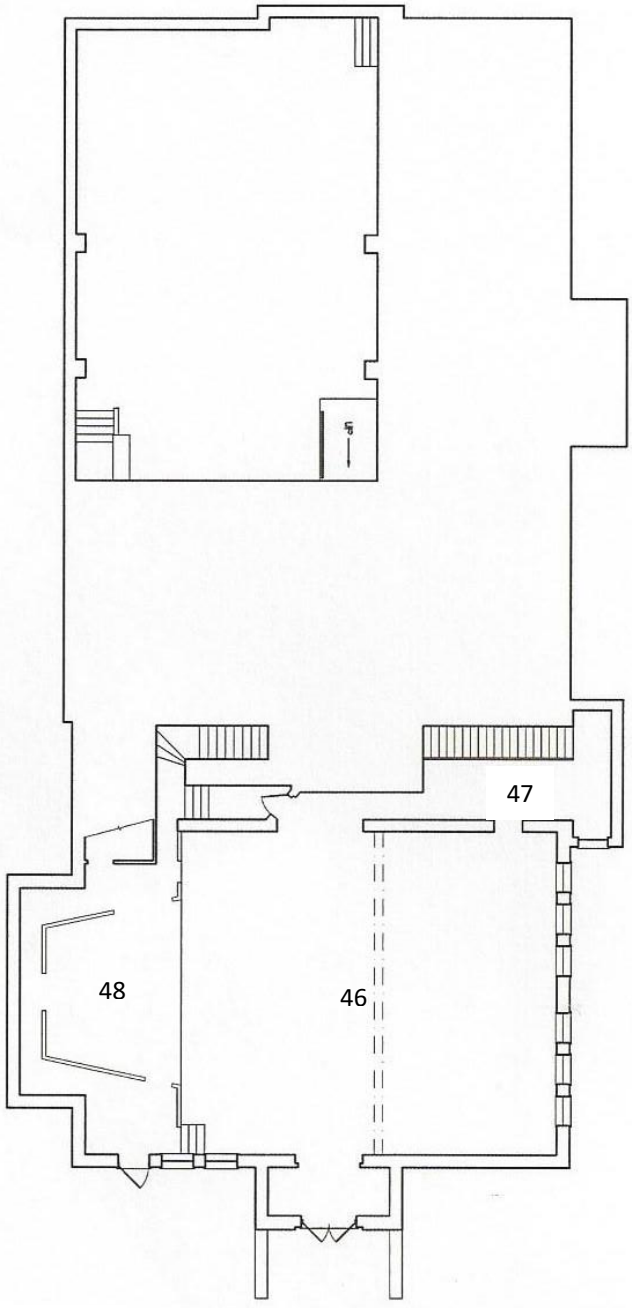
E
S

Date: November 2021 | Drawing is to scale | Project No.: MOESA109EA1



Note: Functional spaces are numbered.

Figure 6
Floorplan of Lower Level

Former Wyman High School Site
Excelsior Springs, Missouri

Seagull Environmental Technologies, Inc.

Date: November 2021

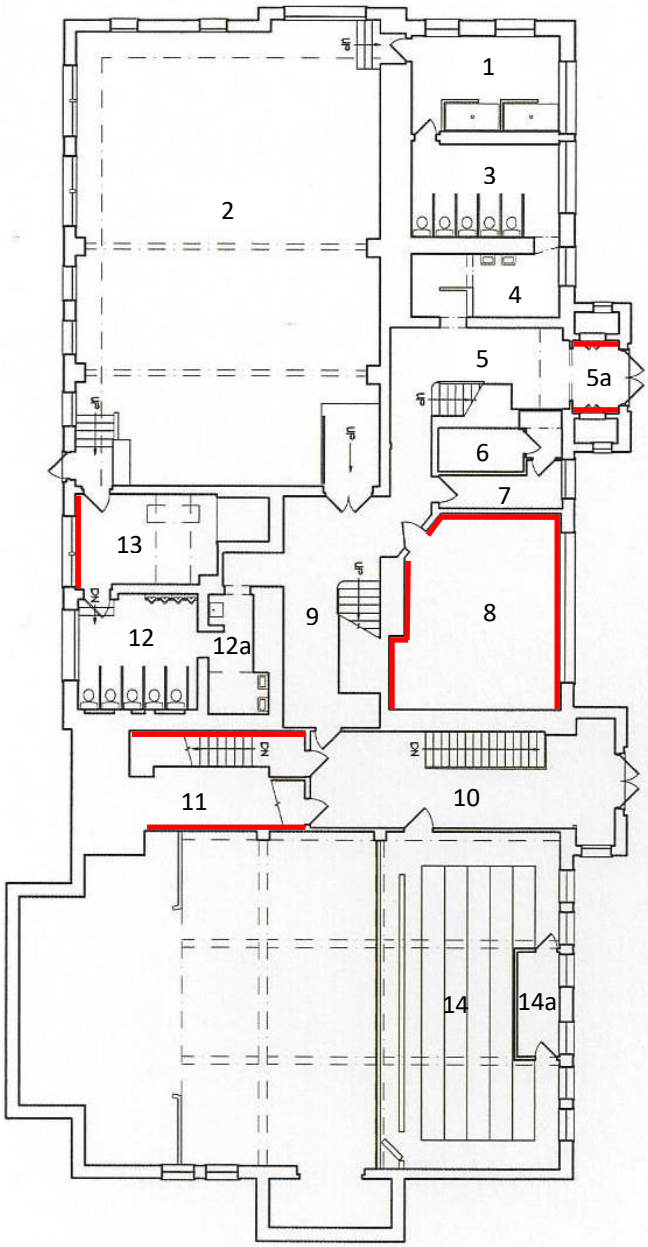
Drawing is to scale

Project No.: MOESA109EA1

Legend

LBP Lead-based paint

Wall with LBP (lower portion where upper/lower sections are present)



Note: Functional spaces are numbered.

Figure 7
LBP on First Floor

Former Wyman High School Site
Excelsior Springs, Missouri

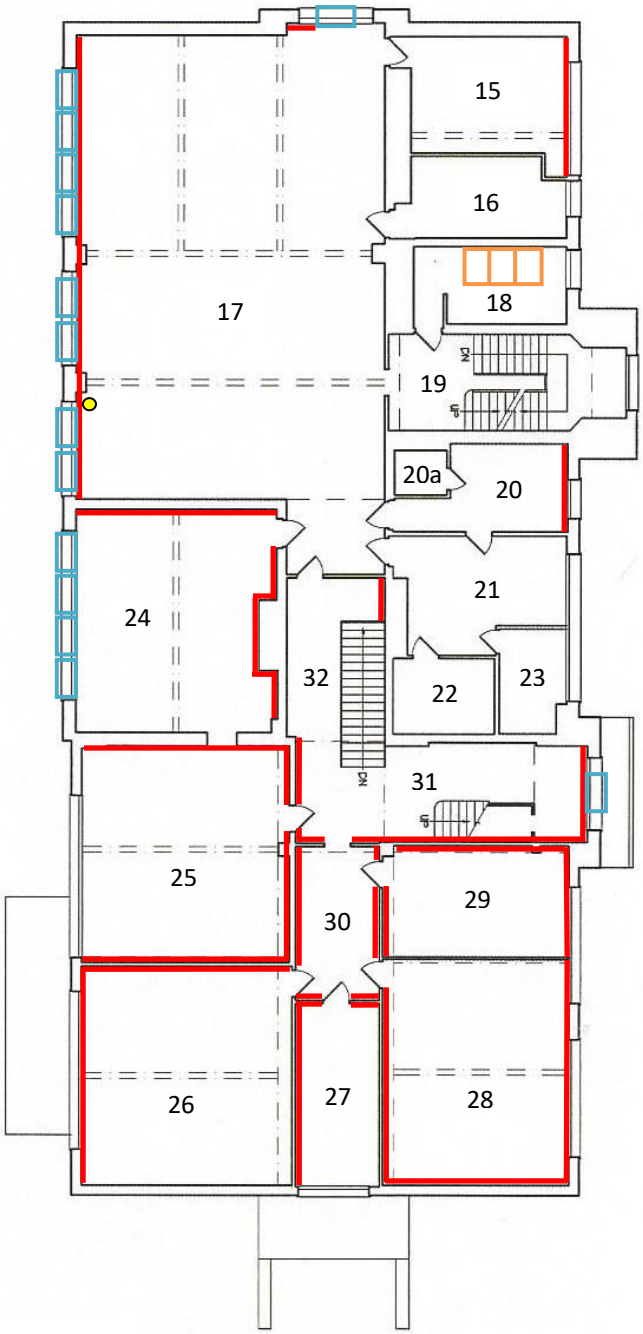
Seagull Environmental Technologies, Inc.

N W E S

Date: November 2021 | Drawing is to scale | Project No.: MOESA109EA1

Legend

LBP	Lead-based paint		Bathroom stalls with LBP
	Wall with LBP (lower portion)		Window frame with LBP
			Water pipe with LBP



Note: Functional spaces are numbered.

Figure 8
LBP on Second Floor

Former Wyman High School Site
Excelsior Springs, Missouri

Seagull Environmental Technologies, Inc.

N W E S

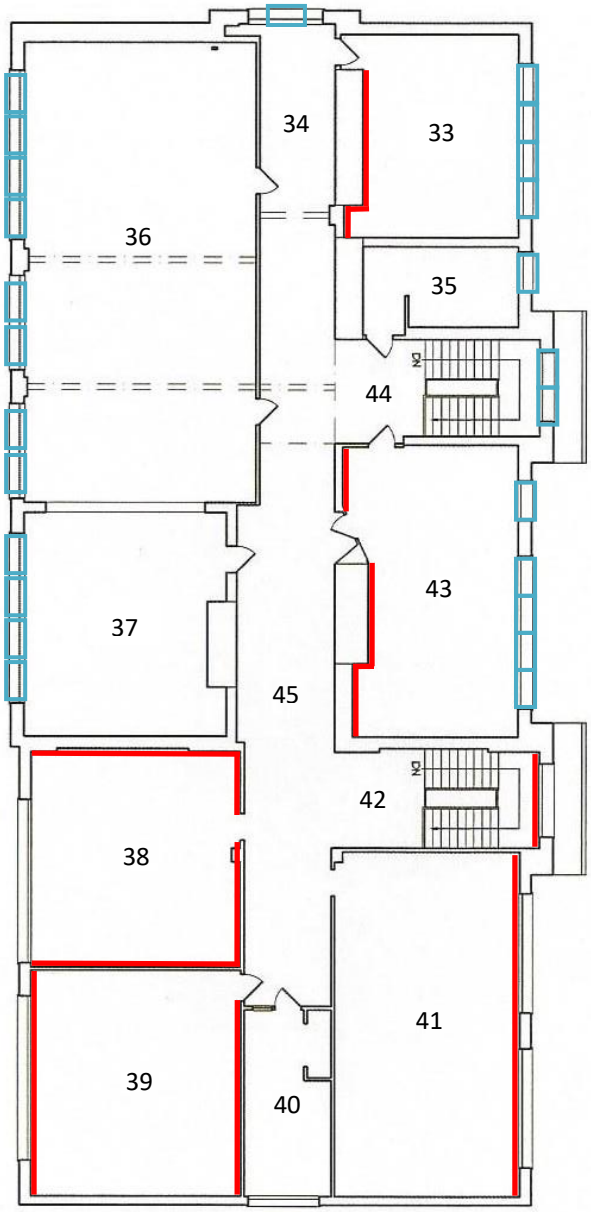
Date: November 2021 | Drawing is to scale | Project No.: MOESA109EA1

Legend

LBP Lead-based paint

Wall with LBP (lower portion)

Window frame with LBP



Note: Functional spaces are numbered.

Figure 9
LBP on Third Floor

Former Wyman High School Site
Excelsior Springs, Missouri

Seagull Environmental Technologies, Inc.

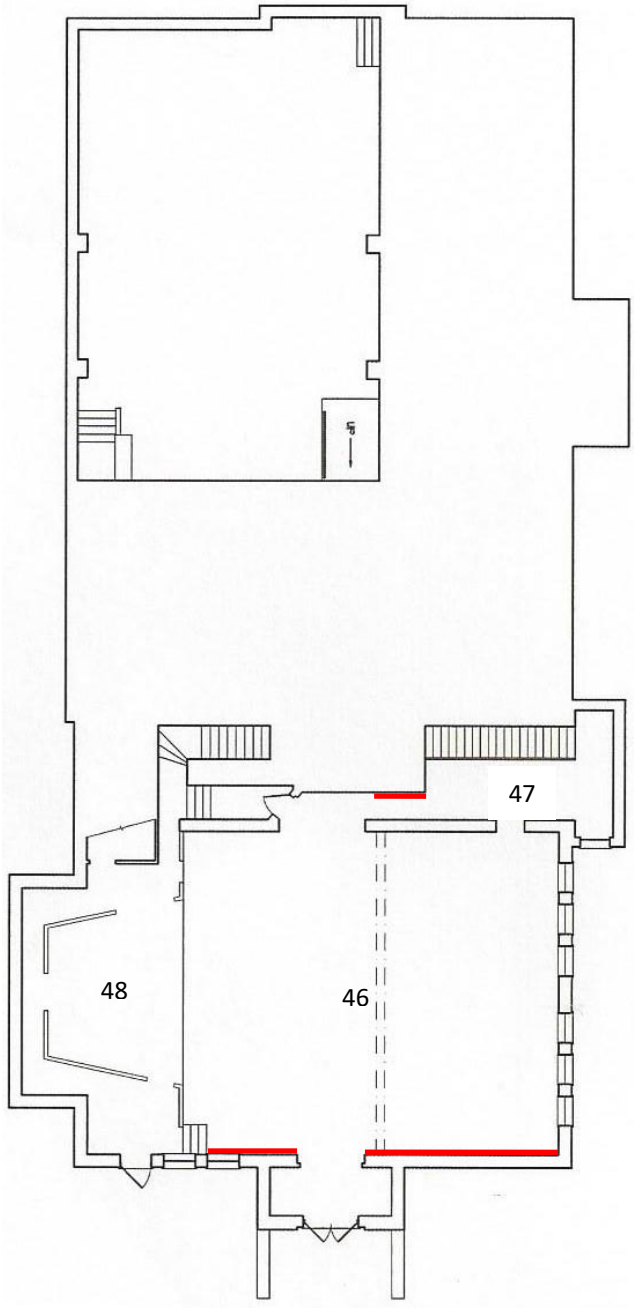
N
W
E
S

Date: November 2021 | Drawing is to scale | Project No.: MOESA109EA1

Legend

LBP Lead-based paint

Wall with LBP (lower portion)



Note: Functional spaces are numbered.

Figure 10
LBP on Lower Level

Former Wyman High School Site
Excelsior Springs, Missouri

Seagull Environmental Technologies, Inc.

N W E S

Date: November 2021 | Drawing is to scale | Project No.: MOESA109EA1

APPENDIX B

PHOTOGRAPHIC DOCUMENTATION

Client: Missouri Department of Natural Resources	Description: Photograph of the east (front) side of the former school building at the subject property.	Photograph Number: 1
Direction: West	Photographer: Lynn Parman	Date: 10/12/2021

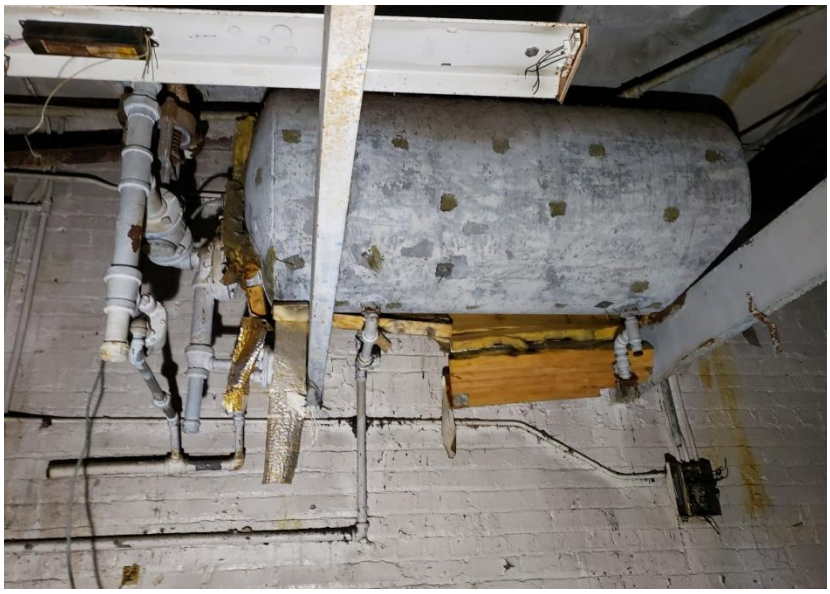
Client: Missouri Department of Natural Resources	Description: Photograph of 9-inch by 9-inch floor tiles on the first floor of the former school building. These tiles and mastic were represented by samples FT1-1, FT1-2, and FT1-3 for asbestos analysis. The tile tested positive for asbestos (2% chrysotile).	Photograph Number: 2
Direction: Not applicable (NA)	Photographer: Lynn Parman	Date: 10/13/2021

Client: Missouri Department of Natural Resources	Description: Photograph of 12-inch by 12-inch floor tiles that were sporadically located throughout the former school building. These tiles and mastic were represented by samples FT2-1, FT2-2, and FT2-3 for asbestos analysis. The tile tested positive for asbestos (2% chrysotile).	Photograph Number: 3
Direction: NA	Photographer: Lynn Parman	Date: 10/13/2021

Client: Missouri Department of Natural Resources	Description: Photograph of 9-inch by 9-inch floor tiles that were on the second and third floors of the former school building. These tiles and mastic were represented by samples FT3-1, FT3-2, and FT3-3 for asbestos analysis. The tile tested positive for asbestos (8% chrysotile).	Photograph Number: 4
Direction: NA	Photographer: Lynn Parman	Date: 10/13/2021

Client: Missouri Department of Natural Resources	Description: Photograph of wallboard that was on the second and third floors of the former school building. This wallboard was represented by samples WB1-1, WB1-2, and WB1-3 for asbestos analysis. .	Photograph Number: 5
Direction: NA	Photographer: Lynn Parman	Date: 10/13/2021

Client: Missouri Department of Natural Resources	Description: Photograph of sheet vinyl flooring (under dust/debris) in Room 21 on the second floor of the former school building. This material was represented by samples SV1-1 and SV1-2 for asbestos analysis. The sheet vinyl tested positive for asbestos (15% chrysotile).	Photograph Number: 6
Direction: NA	Photographer: Lynn Parman	Date: 10/13/2021



Client: Missouri Department of Natural Resources	Description: Photograph of an overhead water tank in Room 13 on the first floor of the former school building. Insulation around the tank and duct tape that had been used to secure the insulation were represented by samples TI1-1, TI1-2, TI1-3, DT1-1, and DT1-2 for asbestos analysis.	Photograph Number: 7
Direction: NA	Photographer: Lynn Parman	Date: 10/13/2021

Client: Missouri Department of Natural Resources	Description: Photograph of cove base that was located throughout the second and third floors of the former school building. This cove base and mastic were represented by samples CB1-1, CB1-2, and CB1-3 for asbestos analysis. .	Photograph Number: 8
Direction: NA	Photographer: Lynn Parman	Date: 10/13/2021

Client: Missouri Department of Natural Resources	Description: Photograph of plaster that was located on walls and ceilings throughout the former school building. This plaster was represented by samples PL1-1 through PL1-7 for asbestos analysis. .	Photograph Number: 9
Direction: NA	Photographer: Lynn Parman	Date: 10/13/2021

Client: Missouri Department of Natural Resources	Description: Photograph of a chalkboard in a classroom of the former school building. These chalkboards, which were located throughout the building, were represented by samples BB1-1, BB1-2, and BB1-3 for asbestos analysis. .	Photograph Number: 10
Direction: NA	Photographer: Lynn Parman	Date: 10/13/2021

Client: Missouri Department of Natural Resources	Description: Photograph of wallboard that was in the auditorium (lower level) of the former school building. This wallboard and mastic were represented by samples WB2-1, WB2-2, and WB2-3 for asbestos analysis.	Photograph Number: 11
Direction: NA	Photographer: Lynn Parman	Date: 10/13/2021

Client: Missouri Department of Natural Resources	Description: Photograph of the roof of the former heating plant building. Roofing material from this building was represented by samples RM1-1 and RM1-2 for asbestos analysis.	Photograph Number: 12
Direction: South	Photographer: Lynn Parman	Date: 10/13/2021

Client: Missouri Department of Natural Resources	Description: Photograph of fiberglass insulation batts in a wall of the former school building.	Photograph Number: 13
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of exposed ceiling joists in the former school building.	Photograph Number: 14
Direction: NA	Photographer: Lynn Parman	Date: 10/13/2021

Client: Missouri Department of Natural Resources	Description: Photograph of Room 22 on the second floor of the former school building where a fire had occurred.	Photograph Number: 15
Direction: NA	Photographer: Lynn Parman	Date: 10/13/2021

Client: Missouri Department of Natural Resources	Description: Photograph of the lower portion of the south wall in Room 5a that was positive for lead-based paint (LBP).	Photograph Number: 16
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of the lower portion of the north wall in Room 5a that was positive for LBP.	Photograph Number: 17
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of the lower portion of the east wall in Room 8 that was positive for LBP.	Photograph Number: 18
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of the lower portion of the west wall in Room 8 that was positive for LBP.	Photograph Number: 19
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of the lower portion of the north wall in Room 8 that was positive for LBP.	Photograph Number: 20
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of the lower portion of the south wall in Room 11 that was positive for LBP.	Photograph Number: 21
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of the lower portion of the north wall in Room 11 that was positive for LBP.	Photograph Number: 22
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of a brick wall on the west side of Room 13 that was positive for LBP.	Photograph Number: 23
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of the lower portion of the east wall in Room 15 that was positive for LBP.	Photograph Number: 24
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of a window frame and a vertical water pipe on the west wall in Room 17 that were positive for LBP.	Photograph Number: 25
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of a window frame and lower portion of the wall near an exterior door on the north wall in Room 17 that were positive for LBP.	Photograph Number: 26
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of the lower portion of the west wall in Room 17 that was positive for LBP.	Photograph Number: 27
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of bathroom stall doors and walls in Room 18 that were positive for LBP.	Photograph Number: 28
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of the lower portion of the east wall in Room 20 that was positive for LBP.	Photograph Number: 29
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of the lower portion of the east wall in Room 24 that was positive for LBP.	Photograph Number: 30
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of window frames on the west wall in Room 24 that were positive for LBP.	Photograph Number: 31
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of the lower portion of the north wall in Room 24 that was positive for LBP.	Photograph Number: 32
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of the lower portion of the east wall in Room 25 that was positive for LBP.	Photograph Number: 33
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of the lower portion of the south wall in Room 25 that was positive for LBP.	Photograph Number: 34
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of the lower portion of the north wall in Room 25 that was positive for LBP.	Photograph Number: 35
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of the lower portion of the west wall in Room 26 that was positive for LBP.	Photograph Number: 36
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of the lower portion of the north wall in Room 26 that was positive for LBP.	Photograph Number: 37
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of the lower portion of the west wall in Room 27 that was positive for LBP.	Photograph Number: 38
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of the lower portion of the north wall in Room 27 that was positive for LBP.	Photograph Number: 39
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of the lower portion of the east wall in Room 28 that was positive for LBP.	Photograph Number: 40
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of the lower portion of the south wall in Room 28 that was positive for LBP.	Photograph Number: 41
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of the lower portion of the west wall in Room 28 that was positive for LBP.	Photograph Number: 42
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of the lower portion of the east wall in Room 29 that was positive for LBP.	Photograph Number: 43
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of the lower portion of the west wall in Room 29 that was positive for LBP.	Photograph Number: 44
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of the lower portion of the north wall in Room 29 that was positive for LBP.	Photograph Number: 45
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of the lower portion of the east wall in Room 30 that was positive for LBP.	Photograph Number: 46
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of the lower portion of the south wall in Room 30 that was positive for LBP.	Photograph Number: 47
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of the lower portion of the west wall in Room 30 that was positive for LBP.	Photograph Number: 48
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of the lower portion of the east wall and a window frame in Room 31 that were positive for LBP.	Photograph Number: 49
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of the lower portion of the south wall in Room 31 that was positive for LBP.	Photograph Number: 50
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of the lower portion of the west wall in Room 31 that was positive for LBP.	Photograph Number: 51
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of the lower portion of the east wall in Room 32 that was positive for LBP.	Photograph Number: 52
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of window frames on the east wall in Room 33 that were positive for LBP.	Photograph Number: 53
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of the lower portion of the west wall in Room 33 that was positive for LBP.	Photograph Number: 54
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of a window frame above an exterior door on the north wall in Room 34 that was positive for LBP.	Photograph Number: 55
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of a window frame on the east wall in Room 35 that was positive for LBP.	Photograph Number: 56
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of window frames on the west wall in Room 36 that were positive for LBP.	Photograph Number: 57
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of window frames on the west wall in Room 37 that were positive for LBP.	Photograph Number: 58
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of the lower portion of the east wall in Room 38 that was positive for LBP.	Photograph Number: 59
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of the lower portion of the south wall in Room 38 that was positive for LBP.	Photograph Number: 60
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of the lower portion of the north wall in Room 38 that was positive for LBP.	Photograph Number: 61
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of the lower portion of the east wall in Room 39 that was positive for LBP.	Photograph Number: 62
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of the lower portion of the west wall in Room 39 that was positive for LBP.	Photograph Number: 63
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of the lower portion of the east wall in Room 41 that was positive for LBP.	Photograph Number: 64
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of the lower portion of the east wall in Room 42 that was positive for LBP.	Photograph Number: 65
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of window frames on the east wall in Room 43 that were positive for LBP.	Photograph Number: 66
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of the lower portion of the west wall in Room 43 that was positive for LBP.	Photograph Number: 67
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of lower window frames on the east wall in Room 44 that were positive for LBP.	Photograph Number: 68
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of upper window frames on the east wall in Room 44 that were positive for LBP.	Photograph Number: 69
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of the lower portion of the south wall in Room 46 that was positive for LBP.	Photograph Number: 70
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of the lower portion of the north wall in Room 47 that was positive for LBP.	Photograph Number: 71
Direction: NA	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of an exterior doorframe at the southwest corner of the former school building that was positive for LBP.	Photograph Number: 72
Direction: North	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description: Photograph of an exterior doorframe on the south side of the second floor of the former school building that was positive for LBP.	Photograph Number: 73
Direction: North	Photographer: Lynn Parman	Date: 10/12/2021

Client: Missouri Department of Natural Resources	Description:	Photograph Number:
Direction:	Photographer:	Date:

APPENDIX C

SUSPECT ACM SUMMARY TABLES

TABLE C-1

SAMPLE SUMMARY FOR ASBESTOS ANALYSIS
FORMER WYMAN HIGH SCHOOL SITE, EXCELSIOR SPRINGS, MISSOURI

HSA	Sample ID	Material	Color	Analytical Result	Photo #[1]
FT1	FT1-1	9" X 9" floor tile & mastic	Grey/black	Tile – 2% Chrysotile Mastic – Asbestos not present	2
	FT1-2			Tile – 2% Chrysotile Mastic – Asbestos not present	
	FT1-3			Tile – 2% Chrysotile Mastic – Asbestos not present	
FT2	FT2-1	12" X 12" floor tile & mastic	Grey/yellow/ black	Tile – 2% Chrysotile Mastic – Asbestos not present	3
	FT2-2			Tile – 2% Chrysotile Mastic – Asbestos not present	
	FT2-3			Tile – 2% Chrysotile Mastic – Asbestos not present	
FT3	FT3-1	9" X 9" floor tile & mastic	Grey/black	Tile – 8% Chrysotile Mastic – Asbestos not present	4
	FT3-2			Asbestos not present	
	FT3-3			Tile – 8% Chrysotile Mastic – Asbestos not present	
WB1	WB1-1	Wallboard	White	Asbestos not present	5
	WB1-2			Asbestos not present	
	WB1-3			Asbestos not present	
SV1	SV1-1	Sheet vinyl flooring[2]	Green/beige/ black	Sheet vinyl – 15% Chrysotile	6
	SV1-2			Sheet vinyl – 15% Chrysotile Floor tile – 8% Chrysotile Mastic – Asbestos not present	
TI1	TI1-1	Tank insulation	Yellow	Asbestos not present	7
	TI1-2			Asbestos not present	
	TI1-3			Asbestos not present	
DT1	DT1-1	Duct tape	Silver	Asbestos not present	7
	DT1-2			Asbestos not present	
CB1	CB1-1	Cove base & mastic	Black/brown	Asbestos not present	8
	CB1-2			Asbestos not present	
	CB1-3			Asbestos not present	
PL1	PL1-1	Plaster	Tan	Asbestos not present	9
	PL1-2			Asbestos not present	
	PL1-3			Asbestos not present	
	PL1-4			Asbestos not present	
	PL1-5			Asbestos not present	
	PL1-6			Asbestos not present	
	PL1-7			Asbestos not present	
BB1	BB1-1	Chalkboard	Black	Asbestos not present	10
	BB1-2			Asbestos not present	
	BB1-3			Asbestos not present	
WB2	WB2-1	Wallboard & mastic	White/brown	Asbestos not present	11
	WB2-2			Asbestos not present	
	WB2-3			Asbestos not present	
RM1	RM1-1	Roofing material	Black	Asbestos not present	12
	RM1-2			Asbestos not present	

TABLE C-1

SAMPLE SUMMARY FOR ASBESTOS ANALYSIS
FORMER WYMAN HIGH SCHOOL SITE, EXCELSIOR SPRINGS, MISSOURI

Notes:

Shaded result indicates material was determined to contain asbestos.

[1] Photo numbers correspond to Appendix B of the report.
[2] Sample SV1-2 also contained underlying floor tile and mastic.

HSA	Homogenous sampling area
ID	Identification
"	Inch
%	Percent

TABLE C-2

ACM ASSESSMENT INFORMATION
FORMER WYMAN HIGH SCHOOL SITE, EXCELSIOR SPRINGS, MISSOURI

Site/Building Name: Former Wyman High School

Address: 108 Dunbar Avenue, Excelsior Springs, MO

Date: October 12-13, 2021

Inspector's Name(s): Lynn Parman

Homogeneous Sampling Area	Functional Space	Description of Material	Type[1]	Friable (Y/N)	Quantity[2]	Condition			Potential for Disturbance[5]			AHERA Category[6]
						Rating[3]	% Damaged	Type of Damage[4]	Contact	Vibration	Air Erosion	
FT1	Rooms 5, 5a, 9, & east end of 19	9" X 9" floor tile & mastic	M	N	670 ft^2	-	-	-	-	-	-	-
FT2	Throughout former school building[a]	12" X 12" floor tile & mastic	M	N	1,000 ft^2	-	-	-	-	-	-	-
FT3	Rooms 15-17, 23-28, 30-34, 36-42, 44, & 45	9" X 9" floor tile & mastic	M	N	11,000 ft^2	-	-	-	-	-	-	-
WB1	Several rooms in former school building[b]	Wallboard	M	Y	2,700 ft^2	SD	>25 (localized)	P	H	L	L	6
SV1	Room 21	Sheet vinyl flooring	M	N	240 ft^2	-	-	-	-	-	-	-
TI1	Room 13	Tank insulation	TSI	Y	50 ft^2	SD	>25 (even)	P, D	M	L	L	1
DT1	Room 13	Duct tape	M	N	6 LF	-	-	-	-	-	-	-
CB1	Second and third floors of former school building	Cove base & mastic	M	N	2,600 LF	-	-	-	-	-	-	-
PL1	Throughout former school building	Plaster	SM	Y	63,000 ft^2	SD	>25 (localized)	P	H	L	L	3
BB1	Throughout former school building	Chalkboard	M	N	21 boards	-	-	-	-	-	-	-

TABLE C-2

ACM ASSESSMENT INFORMATION
FORMER WYMAN HIGH SCHOOL SITE, EXCELSIOR SPRINGS, MISSOURI

Homogeneous Sampling Area	Functional Space	Description of Material	Type[1]	Friable (Y/N)	Quantity[2]	Condition			Potential for Disturbance[5]			AHERA Category[6]
						Rating[3]	% Damaged	Type of Damage[4]	Contact	Vibration	Air Erosion	
WB2	Room 48	Wallboard	M	Y	360 ft^2	SD	>25 (even)	P	H	L	M	6
RM1	Former heating plant building	Roofing material	M	N	750 ft^2	-	-	-	-	-	-	-

Notes:

Condition, potential for disturbance, and assignment of an AHERA category were only completed for friable suspect ACM and all TSI.

Shading identifies materials determined to be ACM (by laboratory analysis).

[a] This 12" X 12" floor tile has been used sporadically throughout the building to patch areas adjacent to, or surrounded by, 9" X 9" floor tile.
[b] This wallboard is in Rooms 15, 16, 20, 20a, 33, 34, 35, and 36.

ACM Asbestos-containing material
AHERA Asbestos Hazard Emergency Response Act
" Inch

[1] Surfacing Material (SM), Thermal System Insulation (TSI), or Miscellaneous (M)

[2] Linear feet (LF), square feet (ft^2), or number of windows (W).

[3] Good (G), Damaged (D), or Significantly Damaged (SD)

Good: <1% damage
Damaged: 1-9% evenly distributed damage or 1-24% localized damage
Significantly Damaged: ≥10% evenly distributed damage or ≥25% localized damage

[4] Deterioration (D), Water (W), Physical (P), or Not Applicable (NA)

[5] Low (L), Moderate (M), or High (H)

[6] AHERA categories (for both suspect and confirmed ACM):

1. Damaged or significantly damaged TSI.
2. Damaged friable surfacing ACM.
3. Significantly damaged friable surfacing ACM.
4. Damaged or significantly damaged friable miscellaneous ACM.
5. ACM with potential for damage.
6. ACM with potential for significant damage.
7. Any remaining friable ACM or friable suspected ACM.

APPENDIX D

LBP DATA TABLES

TABLE D-1

XRF STANDARDS FOR LEAD-BASED PAINT
FORMER WYMAN HIGH SCHOOL SITE, EXCELSIOR SPRINGS, MISSOURI

Time	Reading #1	Reading #2	Reading #3	Notes
1.0 mg/cm^2 Standard (SRM 2573)				
0925	1.006	1.072	1.002	Before screening begins
1120	1.069	1.049	1.043	Before changing battery
1125	1.044	1.060	1.057	After changing battery
1240	1.051	1.035	1.040	Before lunch break
1320	1.034	1.024	1.033	After lunch break
1615	1.002	1.012	1.010	After screening completed
0.0 mg/cm^2 Standard (SRM 2570)				
0925	ND	ND	ND	Before screening begins
1120	ND	ND	ND	Before changing battery
1125	ND	ND	ND	After changing battery
1240	ND	ND	ND	Before lunch break
1320	ND	ND	ND	After lunch break
1615	ND	ND	ND	After screening completed

Notes:

All readings were taken on October 12, 2021, and are expressed in units of mg/cm^2.

mg/cm^2 Milligrams per square centimeter (lead)
ND Not detected
SRM Standard Reference Material
XRF X-ray fluorescence

TABLE D-2

LEAD-BASED PAINT XRF RESULTS
FORMER WYMAN HIGH SCHOOL SITE, EXCELSIOR SPRINGS, MISSOURI

PROJECT NAME Former Wyman High School					**DATE** October 13, 2021			
PROJECT NUMBER MOESA109EA1					**INSPECTOR(S)** Lynn Parman			
PROJECT LOCATION Excelsior Springs, Missouri					**BUILDING NUMBER/NAME** First Floor			
No.	**Color**	**Room/Location**	**Component**	**Substrate**	**Result (mg/cm^2)**	**Positive / Negative**	**Condition**	**Notes**
1	White	Room 1 – north side	Wall	Plaster	0.026	Negative	Good	
2	White	Room 1 – east side	Wall	Plaster	0.035	Negative	Good	
3	White	Room 1 – south side	Wall	Plaster	ND	Negative	Good	
4	White	Room 1 – west side	Wall	Plaster	0.024	Negative	Good	
5	Brown	Room 1 – west side	Doorframe	Wood	ND	Negative	Good	
6	White	Room 1 – east side	Window frame	Wood	0.028	Negative	Good	
7	White	Room 2 – north side	Wall	Brick	0.023	Negative	Poor	
8	White	Room 2 – east side	Wall	Brick	0.024	Negative	Poor	
9	White	Room 2 – south side	Wall	Brick	0.028	Negative	Poor	
10	White	Room 2 – west side	Wall	Brick	0.018	Negative	Poor	
11	White	Room 2 – south side	Vertical water pipe	Metal	0.0016	Negative	Fair	
12	Green	Room 2 – north side	Baseboard	Wood	0.186	Negative	Poor	
13	White	Room 3 – north side	Wall	Plaster	0.047	Negative	Poor	
14	White	Room 3 – east side	Wall	Plaster	0.051	Negative	Poor	
15	White	Room 3 – south side	Wall	Plaster	0.0021	Negative	Poor	
16	White	Room 3 – west side	Wall	Plaster	0.040	Negative	Poor	
17	Grey	Room 3 – east side	Window frame	Wood	0.036	Negative	Fair	

TABLE D-2

LEAD-BASED PAINT XRF RESULTS
FORMER WYMAN HIGH SCHOOL SITE, EXCELSIOR SPRINGS, MISSOURI

PROJECT NAME Former Wyman High School					**DATE** October 13, 2021			
PROJECT NUMBER MOESA109EA1					**INSPECTOR(S)** Lynn Parman			
PROJECT LOCATION Excelsior Springs, Missouri					**BUILDING NUMBER/NAME** First Floor			
No.	**Color**	**Room/Location**	**Component**	**Substrate**	**Result (mg/cm^2)**	**Positive / Negative**	**Condition**	**Notes**
18	White	Room 3 – south side	Wall (bathroom stall)	Metal	0.168	Negative	Poor	
19	Pink	Room 4 – north side	Wall	Plaster	ND	Negative	Poor	
20	Pink	Room 4 – east side	Wall	Plaster	0.0026	Negative	Poor	
21	Pink	Room 4 – south side	Wall	Plaster	0.0032	Negative	Poor	
22	Pink	Room 4 – west side	Wall	Plaster	0.046	Negative	Poor	
23	Tan	Room 4 – east side	Window frame	Wood	0.038	Negative	Fair	
24	White	Room 5 – north side (top)	Wall	Plaster	0.0040	Negative	Poor	
25	White	Room 5 – north side (bottom)	Wall	Plaster	0.056	Negative	Poor	
26	White	Room 5 – south side (top)	Wall	Plaster	ND	Negative	Poor	
27	White	Room 5 – south side (bottom)	Wall	Plaster	0.048	Negative	Poor	
28	White	Room 5 – west side (top)	Wall	Plaster	0.012	Negative	Poor	
29	White	Room 5 – west side (bottom)	Wall	Plaster	0.208	Negative	Poor	
30	Brown	Room 5 – west side	Wall trim	Wood	0.087	Negative	Poor	
31	White	Room 5a – north side (top)	Wall	Plaster	0.242	Negative	Poor	
32	White	Room 5a – north side (bottom)	Wall	Plaster	5.00	Positive	Poor	20 ft^2
33	White	Room 5a – south side (top)	Wall	Plaster	0.156	Negative	Poor	
34	White	Room 5a – south side (bottom)	Wall	Plaster	2.00	Positive	Poor	20 ft^2

TABLE D-2

LEAD-BASED PAINT XRF RESULTS
FORMER WYMAN HIGH SCHOOL SITE, EXCELSIOR SPRINGS, MISSOURI

PROJECT NAME Former Wyman High School					**DATE** October 13, 2021			
PROJECT NUMBER MOESA109EA1					**INSPECTOR(S)** Lynn Parman			
PROJECT LOCATION Excelsior Springs, Missouri					**BUILDING NUMBER/NAME** First Floor			
No.	**Color**	**Room/Location**	**Component**	**Substrate**	**Result (mg/cm^2)**	**Positive / Negative**	**Condition**	**Notes**
35	White	Room 5a	Ceiling	Plaster	0.254	Negative	Poor	
36	Brown	Room 5a – west side	Doorframe	Wood	0.0012	Negative	Fair	
37	White	Room 6 – north side	Wall	Brick	0.037	Negative	Good	
38	White	Room 6 – east side	Wall	Brick	0.084	Negative	Good	
39	White	Room 6 – south side	Wall	Plaster	0.094	Negative	Good	
40	White	Room 6 – west side	Wall	Brick	0.021	Negative	Good	
41	White	Room 7 – north side	Wall	Plaster	ND	Negative	Fair	
42	White	Room 7 – east side	Wall	Brick	0.0080	Negative	Good	
43	White	Room 7 – south side	Wall	Brick	0.297	Negative	Good	
44	White	Room 7 – west side	Wall	Plaster	ND	Negative	Good	
45	Black	Room 7 – east side	Window frame	Wood	0.028	Negative	Fair	
46	White	Room 8 – north side (top)	Wall	Plaster	0.011	Negative	Poor	
47	White	Room 8 – north side (bottom)	Wall	Plaster	1.52	Positive	Poor	60 ft^2
48	White	Room 8 – east side (top)	Wall	Plaster	0.022	Negative	Poor	
49	White	Room 8 – east side (bottom)	Wall	Plaster	1.93	Positive	Poor	84 ft^2
50	White	Room 8 – south side (top)	Wall	Plaster	0.0041	Negative	Poor	
51	White	Room 8 – south side (bottom)	Wall	Plaster	0.221	Negative	Poor	

TABLE D-2

LEAD-BASED PAINT XRF RESULTS
FORMER WYMAN HIGH SCHOOL SITE, EXCELSIOR SPRINGS, MISSOURI

PROJECT NAME Former Wyman High School					**DATE** October 13, 2021			
PROJECT NUMBER MOESA109EA1					**INSPECTOR(S)** Lynn Parman			
PROJECT LOCATION Excelsior Springs, Missouri					**BUILDING NUMBER/NAME** First Floor			
No.	**Color**	**Room/Location**	**Component**	**Substrate**	**Result (mg/cm^2)**	**Positive / Negative**	**Condition**	**Notes**
52	White	Room 8 – west side (top)	Wall	Plaster	0.018	Negative	Fair	
53	White	Room 8 – west side (bottom)	Wall	Plaster	2.78	Positive	Fair	84 ft^2
54	White	Room 8 – south side	Baseboard	Wood	0.574	Negative	Poor	
55	White	Room 8 – west side	Vertical water pipe	Metal	ND	Negative	Fair	
56	Red	Room 8 – east side	Window frame	Wood	0.730	Negative	Fair	
57	White	Room 9 – north side (top)	Wall	Plaster	0.008	Negative	Poor	
58	White	Room 9 – north side (bottom)	Wall	Plaster	ND	Negative	Poor	
59	White	Room 9 – east side (top)	Wall	Plaster	ND	Negative	Poor	
60	White	Room 9 – east side (bottom)	Wall	Plaster	0.206	Negative	Poor	
61	White	Room 9 – west side (top)	Wall	Plaster	ND	Negative	Poor	
62	White	Room 9 – west side (bottom)	Wall	Plaster	0.0016	Negative	Poor	
63	White	Room 9 – west side	Baseboard	Wood	0.023	Negative	Poor	
64	Blue	Room 10 – north side	Wall	Plaster	ND	Negative	Poor	
65	Blue	Room 10 – east side (top)	Wall	Plaster	ND	Negative	Poor	
66	Red	Room 10 – east side (bottom)	Wall	Plaster	ND	Negative	Poor	
67	White	Room 10 – south side	Wall	Plaster	ND	Negative	Poor	
68	Blue	Room 10 – west side	Wall	Plaster	ND	Negative	Poor	

TABLE D-2

LEAD-BASED PAINT XRF RESULTS
FORMER WYMAN HIGH SCHOOL SITE, EXCELSIOR SPRINGS, MISSOURI

PROJECT NAME Former Wyman High School					**DATE** October 13, 2021			
PROJECT NUMBER MOESA109EA1					**INSPECTOR(S)** Lynn Parman			
PROJECT LOCATION Excelsior Springs, Missouri					**BUILDING NUMBER/NAME** First Floor			
No.	**Color**	**Room/Location**	**Component**	**Substrate**	**Result (mg/cm^2)**	**Positive / Negative**	**Condition**	**Notes**
69	Red	Room 10 – west wall	Doorframe	Wood	0.023	Negative	Fair	
70	Blue	Room 10 – east side	Window frame	Wood	0.028	Negative	Fair	
71	Lt. green	Room 11 – north side (top)	Wall	Plaster	0.041	Negative	Poor	
72	Brown	Room 11 – north side (bottom)	Wall	Plaster	5.00	Positive	Poor	68 ft^2
73	White	Room 11 – east side (top)	Wall	Plaster	0.157	Negative	Fair	
74	White	Room 11 – east side (bottom)	Wall	Plaster	0.124	Negative	Fair	
75	White	Room 11 – south side (top)	Wall	Plaster	0.081	Negative	Poor	
76	Blue	Room 11 – south side (bottom)	Wall	Plaster	1.03	Positive	Poor	68 ft^2
77	Lt. green	Room 11 – west side (top)	Wall	Plaster	0.033	Negative	Poor	
78	Brown	Room 11 – west side (bottom)	Wall	Plaster	ND	Negative	Poor	
79	Red	Room 11 – south side	Door	Wood	0.009	Negative	Fair	
80	White	Room 12 – north side	Wall	Plaster	0.049	Negative	Poor	
81	White	Room 12 – east side	Wall	Plaster	0.070	Negative	Poor	
82	White	Room 12 – south side	Wall	Plaster	ND	Negative	Poor	
83	White	Room 12 – west side	Wall	Plaster	0.038	Negative	Poor	
84	Brown	Room 12	Bathroom stall door	Wood	ND	Negative	Fair	
85	Brown	Room 12	Bathroom stall wall	Wood	0.031	Negative	Fair	

TABLE D-2

LEAD-BASED PAINT XRF RESULTS
FORMER WYMAN HIGH SCHOOL SITE, EXCELSIOR SPRINGS, MISSOURI

PROJECT NAME Former Wyman High School					**DATE** October 13, 2021			
PROJECT NUMBER MOESA109EA1					**INSPECTOR(S)** Lynn Parman			
PROJECT LOCATION Excelsior Springs, Missouri					**BUILDING NUMBER/NAME** First Floor			
No.	**Color**	**Room/Location**	**Component**	**Substrate**	**Result (mg/cm^2)**	**Positive / Negative**	**Condition**	**Notes**
86	Brown	Room 12 – north side	Door	Wood	ND	Negative	Good	
87	Brown	Room 12 – north side	Doorframe	Wood	ND	Negative	Good	
88	Tan	Room 12a – north side	Wall	Plaster	ND	Negative	Poor	
89	Tan	Room 12a – east side	Wall	Plaster	0.156	Negative	Poor	
90	Tan	Room 12a – south side	Wall	Plaster	0.091	Negative	Poor	
91	Tan	Room 12a – west side	Wall	Plaster	0.060	Negative	Poor	
92	White	Room 13 – north side	Wall	Brick	ND	Negative	Poor	
93	White	Room 13 – east side	Wall	Brick	0.102	Negative	Poor	
94	White	Room 13 – south side	Wall	Brick	ND	Negative	Poor	
95	White	Room 13 – west side	Wall	Brick	4.71	Positive	Poor	40 ft^2
96	Grey	Room 13 – west side	Baseboard	Wood	0.466	Negative	Poor	
97	Purple	Room 14 – north side (top)	Wall	Plaster	0.065	Negative	Poor	
98	Purple	Room 14 – north side (bottom)	Wall	Plaster	0.685	Negative	Poor	
99	Purple	Room 14 – east side (top)	Wall	Plaster	ND	Negative	Poor	
100	Purple	Room 14 – east side (bottom)	Wall	Plaster	0.008	Negative	Poor	
101	Purple	Room 14 – south side (top)	Wall	Plaster	ND	Negative	Poor	
102	Purple	Room 14 – south side (bottom)	Wall	Plaster	0.300	Negative	Poor	
103	Grey	Room 14	Ceiling	Plaster	0.067	Negative	Poor	

TABLE D-2

LEAD-BASED PAINT XRF RESULTS
FORMER WYMAN HIGH SCHOOL SITE, EXCELSIOR SPRINGS, MISSOURI

PROJECT NAME Former Wyman High School					**DATE** October 13, 2021			
PROJECT NUMBER MOESA109EA1					**INSPECTOR(S)** Lynn Parman			
PROJECT LOCATION Excelsior Springs, Missouri					**BUILDING NUMBER/NAME** First Floor			
No.	**Color**	**Room/Location**	**Component**	**Substrate**	**Result (mg/cm^2)**	**Positive / Negative**	**Condition**	**Notes**
104	Purple	Room 14 – east side	Window frame	Wood	0.041	Negative	Fair	
105	Black	Room 14a – north side	Wall	Plaster	0.051	Negative	Fair	
106	Black	Room 14a – east side	Wall	Plaster	0.068	Negative	Fair	
107	Black	Room 14a – south side	Wall	Plaster	0.041	Negative	Fair	
108	Black	Room 14a	Ceiling	Plaster	0.033	Negative	Poor	

Notes: ft^2 Square feet
mg/cm^2 Milligrams per square centimeter (lead)
ND Not detected
XRF X-ray fluorescence

Shaded results indicate lead concentrations greater than or equal to 1.0 mg/cm^2.

TABLE D-3

LEAD-BASED PAINT XRF RESULTS
FORMER WYMAN HIGH SCHOOL SITE, EXCELSIOR SPRINGS, MISSOURI

PROJECT NAME Former Wyman High School					**DATE** October 13, 2021			
PROJECT NUMBER MOESA109EA1					**INSPECTOR(S)** Lynn Parman			
PROJECT LOCATION Excelsior Springs, Missouri					**BUILDING NUMBER/NAME** Second Floor			
No.	**Color**	**Room/Location**	**Component**	**Substrate**	**Result (mg/cm^2)**	**Positive / Negative**	**Condition**	**Notes**
1	White	Room 15 – east side (top)	Wall	Plaster	0.901	Negative	Poor	
2	Tan	Room 15 – east side (bottom)	Wall	Plaster	1.27	Positive	Poor	52 ft^2
3	White	Room 15 – south side (top)	Wall	Wallboard	ND	Negative	Good	
4	Tan	Room 15 – south side (bottom)	Wall	Wallboard	ND	Negative	Good	
5	White	Room 15 – west side (top)	Wall	Plaster	0.066	Negative	Poor	
6	Tan	Room 15 – west side (bottom)	Wall	Plaster	0.193	Negative	Poor	
7	White	Room 15 – east side	Window frame	Wood	0.667	Negative	Fair	
8	Brown	Room 16 – north side	Wall	Wallboard	ND	Negative	Fair	
9	Brown	Room 16 – east side	Wall	Plaster	0.596	Negative	Poor	
10	Brown	Room 16 – south side	Wall	Wallboard	ND	Negative	Fair	
11	Brown	Room 16 – west side	Wall	Plaster	0.180	Negative	Poor	
12	Brown	Room 16 – west side	Doorframe	Wood	0.167	Negative	Poor	
13	Brown	Room 16 – west side	Door	Wood	0.0013	Negative	Poor	
14	White	Room 17 – north side (bottom)	Wall	Plaster	1.02	Positive	Poor	20 ft^2
15	White	Room 17 – east side (top)	Wall	Plaster	0.0080	Negative	Poor	
16	Dk. grey	Room 17 – east side (bottom)	Wall	Plaster	0.296	Negative	Poor	
17	White	Room 17 – south side (top)	Wall	Plaster	0.272	Negative	Poor	

TABLE D-3

LEAD-BASED PAINT XRF RESULTS
FORMER WYMAN HIGH SCHOOL SITE, EXCELSIOR SPRINGS, MISSOURI

PROJECT NAME Former Wyman High School					**DATE** October 13, 2021			
PROJECT NUMBER MOESA109EA1					**INSPECTOR(S)** Lynn Parman			
PROJECT LOCATION Excelsior Springs, Missouri					**BUILDING NUMBER/NAME** Second Floor			
No.	**Color**	**Room/Location**	**Component**	**Substrate**	**Result (mg/cm^2)**	**Positive / Negative**	**Condition**	**Notes**
18	Tan	Room 17 – south side (bottom)	Wall	Plaster	0.940	Negative	Poor	
19	White	Room 17 – west side (top)	Wall	Plaster	0.178	Negative	Poor	
20	Grey	Room 17 – west side (bottom)	Wall	Plaster	2.50	Positive	Poor	200 ft^2
21	Grey	Room 17 – west side	Window frame	Wood	3.24	Positive	Poor	8 windows
22	Grey	Room 17 – west side	Vertical water pipe	Metal	2.03	Positive	Poor	12 lf (1 pipe)
23	Yellow	Room 17 – north side	Window frame	Wood	1.49	Positive	Poor	1 window
24	Brown	Room 17 – north side	Doorframe	Wood	0.0016	Negative	Fair	
25	Brown	Room 17 – north side	Door	Wood	0.011	Negative	Fair	
26	Silver	Room 17 – north side	Vertical water pipe	Metal	0.076	Negative	Poor	
27	Brown	Room 18 – north side (top)	Wall	Plaster	0.030	Negative	Poor	
28	Dk. brown	Room 18 – north side (bottom)	Wall	Plaster	ND	Negative	Poor	
29	Brown	Room 18 – east side (top)	Wall	Plaster	ND	Negative	Poor	
30	Dk. brown	Room 18 – east side (bottom)	Wall	Plaster	0.302	Negative	Poor	
31	Brown	Room 18 – south side (top)	Wall	Plaster	0.041	Negative	Poor	
32	Dk. brown	Room 18 – south side (bottom)	Wall	Plaster	0.423	Negative	Poor	
33	Brown	Room 18 – west side (top)	Wall	Plaster	ND	Negative	Poor	
34	Dk. brown	Room 18 – west side (bottom)	Wall	Plaster	ND	Negative	Poor	

TABLE D-3

LEAD-BASED PAINT XRF RESULTS
FORMER WYMAN HIGH SCHOOL SITE, EXCELSIOR SPRINGS, MISSOURI

PROJECT NAME Former Wyman High School					**DATE** October 13, 2021			
PROJECT NUMBER MOESA109EA1					**INSPECTOR(S)** Lynn Parman			
PROJECT LOCATION Excelsior Springs, Missouri					**BUILDING NUMBER/NAME** Second Floor			
No.	**Color**	**Room/Location**	**Component**	**Substrate**	**Result (mg/cm^2)**	**Positive / Negative**	**Condition**	**Notes**
35	Brown	Room 18	Bathroom stall door	Metal	1.03	Positive	Fair	3 stall doors
36	Brown	Room 18	Bathroom stall wall	Metal	1.32	Positive	Fair	3 stalls
37	Yellow	Room 19 – north side (top)	Wall	Plaster	ND	Negative	Poor	
38	Grey	Room 19 – north side (bottom)	Wall	Plaster	0.409	Negative	Poor	
39	Yellow	Room 19 – east side (top)	Wall	Plaster	ND	Negative	Poor	
40	Grey	Room 19 – east side (bottom)	Wall	Plaster	0.419	Negative	Poor	
41	Green	Room 19 – south side (top)	Wall	Plaster	0.0004	Negative	Poor	
42	Grey	Room 19 – south side (bottom)	Wall	Plaster	0.526	Negative	Poor	
43	Grey	Room 20 – north side (top)	Wall	Plaster	ND	Negative	Poor	
44	Blue	Room 20 – north side (bottom)	Wall	Plaster	0.332	Negative	Poor	
45	Grey	Room 20 – east side (top)	Wall	Plaster	0.195	Negative	Poor	
46	White	Room 20 – east side (bottom)	Wall	Plaster	1.31	Positive	Poor	40 ft^2
47	Grey	Room 20 – south side	Wall	Wallboard	ND	Negative	Poor	
48	Grey	Room 20 – west side	Wall	Plaster	0.204	Negative	Poor	
49	Grey	Room 20 – east side	Window frame	Wood	0.086	Negative	Fair	
50	Blue	Room 20 – south side	Doorframe	Wood	ND	Negative	Poor	
51	Blue	Room 20 – west side	Doorframe	Wood	0.064	Negative	Poor	

TABLE D-3

LEAD-BASED PAINT XRF RESULTS
FORMER WYMAN HIGH SCHOOL SITE, EXCELSIOR SPRINGS, MISSOURI

PROJECT NAME Former Wyman High School					**DATE** October 13, 2021			
PROJECT NUMBER MOESA109EA1					**INSPECTOR(S)** Lynn Parman			
PROJECT LOCATION Excelsior Springs, Missouri					**BUILDING NUMBER/NAME** Second Floor			
No.	**Color**	**Room/Location**	**Component**	**Substrate**	**Result (mg/cm^2)**	**Positive / Negative**	**Condition**	**Notes**
52	White	Room 20a – north side	Wall	Wallboard	ND	Negative	Fair	
53	White	Room 20a – east side	Wall	Wallboard	ND	Negative	Good	
54	White	Room 20a – south side	Wall	Wallboard	ND	Negative	Good	
55	White	Room 20a – west side	Wall	Wallboard	ND	Negative	Good	
56	White	Room 24 – north side (top)	Wall	Plaster	0.063	Negative	Poor	
57	White	Room 24 – north side (bottom)	Wall	Plaster	1.27	Positive	Poor	88 ft^2
58	White	Room 24 – east side (top)	Wall	Plaster	0.142	Negative	Poor	
59	White	Room 24 – east side (bottom)	Wall	Plaster	1.26	Positive	Poor	100 ft^2
60	White	Room 24 – south side (top)	Wall	Plaster	ND	Negative	Poor	
61	White	Room 24 – south side (bottom)	Wall	Plaster	0.930	Negative	Poor	
62	White	Room 24 – west side (top)	Wall	Plaster	0.071	Negative	Poor	
63	White	Room 24 – west side (bottom)	Wall	Plaster	0.040	Negative	Poor	
64	White	Room 24 – west side	Window frame	Wood	1.49	Positive	Poor	4 windows
65	White	Room 24 – west side	Vertical water pipe	Metal	0.090	Negative	Poor	
66	Blue	Room 24 – east side	Wall trim	Wood	ND	Negative	Fair	
67	Brown	Room 24 – east side	Door	Wood	0.0052	Negative	Fair	
68	White	Room 24 – east side	Doorframe	Wood	0.047	Negative	Poor	

TABLE D-3

LEAD-BASED PAINT XRF RESULTS
FORMER WYMAN HIGH SCHOOL SITE, EXCELSIOR SPRINGS, MISSOURI

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PROJECT NUMBER MOESA109EA1					**INSPECTOR(S)** Lynn Parman			
PROJECT LOCATION Excelsior Springs, Missouri					**BUILDING NUMBER/NAME** Second Floor			
No.	**Color**	**Room/Location**	**Component**	**Substrate**	**Result (mg/cm^2)**	**Positive / Negative**	**Condition**	**Notes**
69	White	Room 25 – north side (top)	Wall	Plaster	0.057	Negative	Poor	
70	White	Room 25 – north side (bottom)	Wall	Plaster	1.14	Positive	Poor	92 ft^2
71	White	Room 25 – east side (top)	Wall	Plaster	0.090	Negative	Poor	
72	White	Room 25 – east side (bottom)	Wall	Plaster	1.22	Positive	Poor	96 ft^2
73	White	Room 25 – south side (top)	Wall	Plaster	0.089	Negative	Poor	
74	White	Room 25 – south side (bottom)	Wall	Plaster	1.44	Positive	Poor	92 ft^2
75	White	Room 25 – west side (bottom)	Wall	Plaster	0.237	Negative	Poor	
76	White	Room 25 – west side	Window frame	Wood	0.235	Negative	Poor	
77	Blue	Room 25 – east side	Wall trim	Wood	0.079	Negative	Poor	
78	White	Room 25 – east side	Doorframe	Wood	0.158	Negative	Poor	
79	Brown	Room 25 – east side	Door	Wood	0.027	Negative	Poor	
80	White	Room 26 – north side (top)	Wall	Plaster	0.200	Negative	Poor	
81	White	Room 26 – north side (bottom)	Wall	Plaster	1.22	Positive	Poor	92 ft^2
82	White	Room 26 – east side (top)	Wall	Plaster	0.115	Negative	Poor	
83	White	Room 26 – east side (bottom)	Wall	Plaster	0.541	Negative	Poor	
84	White	Room 26 – south side (top)	Wall	Plaster	0.133	Negative	Poor	
85	White	Room 26 – south side (bottom)	Wall	Plaster	0.397	Negative	Poor	
86	White	Room 26 – west side (top)	Wall	Plaster	0.134	Negative	Poor	

TABLE D-3

LEAD-BASED PAINT XRF RESULTS
FORMER WYMAN HIGH SCHOOL SITE, EXCELSIOR SPRINGS, MISSOURI

PROJECT NAME Former Wyman High School					**DATE** October 13, 2021			
PROJECT NUMBER MOESA109EA1					**INSPECTOR(S)** Lynn Parman			
PROJECT LOCATION Excelsior Springs, Missouri					**BUILDING NUMBER/NAME** Second Floor			
No.	**Color**	**Room/Location**	**Component**	**Substrate**	**Result (mg/cm^2)**	**Positive / Negative**	**Condition**	**Notes**
87	White	Room 26 – west side (bottom)	Wall	Plaster	1.47	Positive	Poor	
88	White	Room 26 – west side	Window frame	Wood	0.074	Negative	Poor	
89	Brown	Room 26 – east side	Door	Wood	0.010	Negative	Fair	
90	White	Room 26 – east side	Doorframe	Wood	0.083	Negative	Poor	
91	Yellow	Room 27 – north side (top)	Wall	Plaster	0.081	Negative	Poor	
92	Yellow	Room 27 – north side (bottom)	Wall	Plaster	1.75	Positive	Poor	40 ft^2
93	Yellow	Room 27 – east side (top)	Wall	Plaster	0.051	Negative	Poor	
94	Yellow	Room 27 – east side (bottom)	Wall	Plaster	0.020	Negative	Poor	
95	Yellow	Room 27 – south side (top)	Wall	Plaster	0.057	Negative	Poor	
96	Yellow	Room 27 – south side (bottom)	Wall	Plaster	0.007	Negative	Poor	
97	Yellow	Room 27 – west side (top)	Wall	Plaster	0.078	Negative	Poor	
98	Yellow	Room 27 – west side (bottom)	Wall	Plaster	1.52	Positive	Poor	80 ft^2
99	Black	Room 27 – north side	Doorframe	Wood	0.007	Negative	Fair	
100	Brown	Room 27 – north side	Door	Wood	0.003	Negative	Fair	
101	Black	Room 27 – south side	Window frame	Wood	0.022	Negative	Fair	
102	Red	Room 27 – south side	Step	Wood	0.117	Negative	Fair	
103	White	Room 28 – east side (top)	Wall	Plaster	0.067	Negative	Poor	
104	White	Room 28 – east side (bottom)	Wall	Plaster	1.13	Positive	Poor	96 ft^2

TABLE D-3

LEAD-BASED PAINT XRF RESULTS
FORMER WYMAN HIGH SCHOOL SITE, EXCELSIOR SPRINGS, MISSOURI

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PROJECT NUMBER MOESA109EA1					**INSPECTOR(S)** Lynn Parman			
PROJECT LOCATION Excelsior Springs, Missouri					**BUILDING NUMBER/NAME** Second Floor			
No.	**Color**	**Room/Location**	**Component**	**Substrate**	**Result (mg/cm^2)**	**Positive / Negative**	**Condition**	**Notes**
105	White	Room 28 – south side (top)	Wall	Plaster	0.112	Negative	Poor	
106	White	Room 28 – south side (bottom)	Wall	Plaster	1.32	Positive	Poor	84 ft^2
107	White	Room 28 – west side (top)	Wall	Plaster	0.085	Negative	Poor	
108	White	Room 28 – west side (bottom)	Wall	Plaster	1.72	Positive	Poor	96 ft^2
109	White	Room 28 – east side	Window frame	Wood	0.067	Negative	Poor	
110	White	Room 28 – east side	Vertical water pipe	Metal	0.600	Negative	Poor	
111	Brown	Room 28 – west side	Door	Wood	0.023	Negative	Fair	
112	White	Room 28 – west side	Doorframe	Wood	0.025	Negative	Poor	
113	White	Room 29 – north side (top)	Wall	Plaster	0.928	Negative	Poor	
114	White	Room 29 – north side (bottom)	Wall	Plaster	2.41	Positive	Poor	84 ft^2
115	White	Room 29 – east side (top)	Wall	Plaster	0.116	Negative	Poor	
116	White	Room 29 – east side (bottom)	Wall	Plaster	1.44	Positive	Poor	52 ft^2
117	White	Room 29 – west side (top)	Wall	Plaster	0.942	Negative	Poor	
118	White	Room 29 – west side (bottom)	Wall	Plaster	1.58	Positive	Poor	52 ft^2
119	White	Room 29 – east side	Window frame	Wood	0.790	Negative	Poor	
120	Brown	Room 29 – west side	Door	Wood	0.018	Negative	Fair	
121	Brown	Room 29 – west side	Doorframe	Wood	0.046	Negative	Fair	

TABLE D-3

LEAD-BASED PAINT XRF RESULTS
FORMER WYMAN HIGH SCHOOL SITE, EXCELSIOR SPRINGS, MISSOURI

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PROJECT NUMBER MOESA109EA1					**INSPECTOR(S)** Lynn Parman			
PROJECT LOCATION Excelsior Springs, Missouri					**BUILDING NUMBER/NAME** Second Floor			
No.	**Color**	**Room/Location**	**Component**	**Substrate**	**Result (mg/cm^2)**	**Positive / Negative**	**Condition**	**Notes**
122	Yellow	Room 30 – east side (top)	Wall	Plaster	ND	Negative	Poor	
123	Grey	Room 30 – east side (bottom)	Wall	Plaster	1.45	Positive	Poor	68 ft^2
124	Yellow	Room 30 – south side (top)	Wall	Plaster	ND	Negative	Poor	
125	Grey	Room 30 – south side (bottom)	Wall	Plaster	1.22	Positive	Poor	40 ft^2
126	Yellow	Room 30 – west side (top)	Wall	Plaster	0.896	Negative	Poor	
127	Grey	Room 30 – west side (bottom)	Wall	Plaster	1.91	Positive	Poor	68 ft^2
128	Yellow	Room 31 – north side (top)	Wall	Plaster	0.127	Negative	Poor	
129	Brown	Room 31 – north side (bottom)	Wall	Plaster	0.262	Negative	Poor	
130	Yellow	Room 31 – east side (top)	Wall	Plaster	ND	Negative	Poor	
131	Brown	Room 31 – east side (bottom)	Wall	Plaster	1.87	Positive	Poor	48 ft^2
132	Yellow	Room 31 – south side (top)	Wall	Plaster	ND	Negative	Poor	
133	Brown	Room 31 – south side (bottom)	Wall	Plaster	3.02	Positive	Poor	88 ft^2
134	Yellow	Room 31 – west side (top)	Wall	Plaster	ND	Negative	Poor	
135	Brown	Room 31 – west side (bottom)	Wall	Plaster	1.62	Positive	Poor	48 ft^2
136	Yellow	Room 31 – east side	Window frame	Wood	1.10	Positive	Poor	2 windows
137	White	Room 32 – east side (top)	Wall	Plaster	ND	Negative	Poor	
138	Brown	Room 32 – east side (bottom)	Wall	Plaster	1.08	Positive	Poor	20 ft^2
139	Yellow	Room 32 – east side (top)	Wall	Plaster	ND	Negative	Poor	

TABLE D-3

LEAD-BASED PAINT XRF RESULTS
FORMER WYMAN HIGH SCHOOL SITE, EXCELSIOR SPRINGS, MISSOURI

PROJECT NAME Former Wyman High School					**DATE** October 13, 2021			
PROJECT NUMBER MOESA109EA1					**INSPECTOR(S)** Lynn Parman			
PROJECT LOCATION Excelsior Springs, Missouri					**BUILDING NUMBER/NAME** Second Floor			
No.	**Color**	**Room/Location**	**Component**	**Substrate**	**Result (mg/cm^2)**	**Positive / Negative**	**Condition**	**Notes**
140	Brown	Room 32 – east side (bottom)	Wall	Plaster	0.210	Negative	Poor	

Notes: ft^2 Square feet
lf Linear feet
mg/cm^2 Milligrams per square centimeter (lead)
ND Not detected
XRF X-ray fluorescence

Shaded results indicate lead concentrations greater than or equal to 1.0 mg/cm^2.

TABLE D-4

LEAD-BASED PAINT XRF RESULTS
FORMER WYMAN HIGH SCHOOL SITE, EXCELSIOR SPRINGS, MISSOURI

PROJECT NAME Former Wyman High School					**DATE** October 13, 2021			
PROJECT NUMBER MOESA109EA1					**INSPECTOR(S)** Lynn Parman			
PROJECT LOCATION Excelsior Springs, Missouri					**BUILDING NUMBER/NAME** Third Floor			
No.	**Color**	**Room/Location**	**Component**	**Substrate**	**Result (mg/cm^2)**	**Positive / Negative**	**Condition**	**Notes**
1	White	Room 33 – east side (top)	Wall	Plaster	0.457	Negative	Poor	
2	White	Room 33 – east side (bottom)	Wall	Plaster	0.737	Negative	Poor	
3	White	Room 33 – south side	Wall	Wallboard	ND	Negative	Good	
4	White	Room 33 – west side (top)	Wall	Plaster	0.289	Negative	Poor	
5	White	Room 33 – west side (bottom)	Wall	Plaster	1.19	Positive	Poor	92 ft^2
6	White	Room 33 – east side	Window frame	Wood	1.97	Positive	Poor	4 windows
7	Brown	Room 33 – west side	Door	Wood	0.0014	Negative	Poor	
8	Brown	Room 33 – west side	Doorframe	Wood	0.0009	Negative	Poor	
9	Yellow	Room 34 – north side (top)	Wall	Plaster	0.299	Negative	Poor	
10	Brown	Room 34 – north side (bottom)	Wall	Plaster	0.014	Negative	Poor	
11	Yellow	Room 34 – east side (top)	Wall	Plaster	0.246	Negative	Poor	
12	Brown	Room 34 – east side (bottom)	Wall	Plaster	0.176	Negative	Poor	
13	Yellow	Room 34 – west side (top)	Wall	Wallboard	ND	Negative	Good	
14	Brown	Room 34 – west side (bottom)	Wall	Wallboard	ND	Negative	Poor	
15	Yellow	Room 34 – north side	Window frame	Wood	1.96	Positive	Fair	1 window
16	Brown	Room 34 – north side	Doorframe	Wood	0.0014	Negative	Poor	
17	Tan	Room 35 – north side (top)	Wall	Wallboard	ND	Negative	Good	
18	Brown	Room 35 – north side (bottom)	Wall	Wallboard	ND	Negative	Poor	

TABLE D-4

LEAD-BASED PAINT XRF RESULTS
FORMER WYMAN HIGH SCHOOL SITE, EXCELSIOR SPRINGS, MISSOURI

PROJECT NAME Former Wyman High School					**DATE** October 13, 2021			
PROJECT NUMBER MOESA109EA1					**INSPECTOR(S)** Lynn Parman			
PROJECT LOCATION Excelsior Springs, Missouri					**BUILDING NUMBER/NAME** Third Floor			
No.	**Color**	**Room/Location**	**Component**	**Substrate**	**Result (mg/cm^2)**	**Positive / Negative**	**Condition**	**Notes**
19	Tan	Room 35 – east side (top)	Wall	Plaster	0.296	Negative	Poor	
20	Brown	Room 35 – east side (bottom)	Wall	Plaster	0.069	Negative	Poor	
21	Tan	Room 35 – south side (top)	Wall	Plaster	ND	Negative	Poor	
22	Brown	Room 35 – south side (bottom)	Wall	Plaster	0.104	Negative	Poor	
23	Tan	Room 35 – west side (top)	Wall	Plaster	0.295	Negative	Poor	
24	Brown	Room 35 – west side (bottom)	Wall	Plaster	0.213	Negative	Poor	
25	Tan/brown	Room 35 – east side	Window frame	Wood	2.39	Positive	Fair	1 window
26	Brown	Room 35	Bathroom stall door	Wood	ND	Negative	Fair	
27	Brown	Room 35	Bathroom stall wall	Wood	0.0097	Negative	Poor	
28	Brown	Room 35 – south side	Doorframe	Wood	0.0048	Negative	Fair	
29	Brown	Room 35 – south side	Door	Wood	0.052	Negative	Poor	
30	White	Room 36 – east side (top)	Wall	Wallboard	ND	Negative	Fair	
31	Blue	Room 36 – east side (bottom)	Wall	Wallboard	ND	Negative	Good	
32	White	Room 36 – south side (top)	Wall	Plaster	0.339	Negative	Fair	
33	White	Room 36 – south side (bottom)	Wall	Plaster	0.212	Negative	Poor	
34	White	Room 36 – west side (top)	Wall	Plaster	0.406	Negative	Poor	
35	White	Room 36 – west side (bottom)	Wall	Plaster	0.196	Negative	Poor	

TABLE D-4

LEAD-BASED PAINT XRF RESULTS
FORMER WYMAN HIGH SCHOOL SITE, EXCELSIOR SPRINGS, MISSOURI

PROJECT NAME Former Wyman High School					**DATE** October 13, 2021			
PROJECT NUMBER MOESA109EA1					**INSPECTOR(S)** Lynn Parman			
PROJECT LOCATION Excelsior Springs, Missouri					**BUILDING NUMBER/NAME** Third Floor			
No.	**Color**	**Room/Location**	**Component**	**Substrate**	**Result (mg/cm^2)**	**Positive / Negative**	**Condition**	**Notes**
36	White	Room 36 – west side	Window frame	Wood	2.35	Positive	Poor	8 windows
37	Brown	Room 36 – east side	Door	Wood	0.0060	Negative	Fair	
38	White	Room 36 – east side	Doorframe	Wood	ND	Negative	Fair	
39	White	Room 37 – east side (top)	Wall	Plaster	0.099	Negative	Fair	
40	White	Room 37 – east side (bottom)	Wall	Plaster	0.179	Negative	Poor	
41	White	Room 37 – south side (top)	Wall	Plaster	0.516	Negative	Poor	
42	White	Room 37 – south side (bottom)	Wall	Plaster	0.232	Negative	Poor	
43	White	Room 37 – west side (top)	Wall	Plaster	0.335	Negative	Poor	
44	White	Room 37 – west side (bottom)	Wall	Plaster	0.243	Negative	Poor	
45	White	Room 37 – west side	Window frame	Wood	2.16	Positive	Poor	4 windows
46	White	Room 37 – west side	Vertical water pipe	Metal	0.017	Negative	Fair	
47	White	Room 37 – east side	Doorframe	Wood	0.027	Negative	Poor	
48	Brown	Room 37 – east side	Door	Wood	0.009	Negative	Fair	
49	White	Room 38 – north side (top)	Wall	Plaster	0.189	Negative	Poor	
50	White	Room 38 – north side (bottom)	Wall	Plaster	1.08	Positive	Poor	92 ft^2
51	White	Room 38 – east side (top)	Wall	Plaster	0.258	Negative	Poor	
52	White	Room 38 – east side (bottom)	Wall	Plaster	1.31	Positive	Poor	96 ft^2

TABLE D-4

LEAD-BASED PAINT XRF RESULTS
FORMER WYMAN HIGH SCHOOL SITE, EXCELSIOR SPRINGS, MISSOURI

PROJECT NAME Former Wyman High School	**DATE** October 13, 2021
PROJECT NUMBER MOESA109EA1	**INSPECTOR(S)** Lynn Parman
PROJECT LOCATION Excelsior Springs, Missouri	**BUILDING NUMBER/NAME** Third Floor

No.	Color	Room/Location	Component	Substrate	Result (mg/cm^2)	Positive / Negative	Condition	Notes
53	White	Room 38 – south side (top)	Wall	Plaster	0.202	Negative	Poor	
54	White	Room 38 – south side (bottom)	Wall	Plaster	1.26	Positive	Poor	92 ft^2
55	White	Room 38 – west side (top)	Wall	Plaster	0.294	Negative	Poor	
56	White	Room 38 – west side (bottom)	Wall	Plaster	0.074	Negative	Poor	
57	White	Room 38 – west side	Window frame	Wood	0.077	Negative	Poor	
58	White	Room 38 – east side	Doorframe	Wood	0.063	Negative	Fair	
59	White	Room 39 – north side (top)	Wall	Plaster	0.158	Negative	Poor	
60	White	Room 39 – north side (bottom)	Wall	Plaster	0.766	Negative	Poor	
61	White	Room 39 – east side (top)	Wall	Plaster	0.289	Negative	Poor	
62	White	Room 39 – east side (bottom)	Wall	Plaster	1.60	Positive	Poor	96 ft^2
63	White	Room 39 – south side (top)	Wall	Plaster	0.207	Negative	Poor	
64	White	Room 39 – south side (bottom)	Wall	Plaster	0.008	Negative	Poor	
65	White	Room 39 – west side (top)	Wall	Plaster	0.143	Negative	Poor	
66	White	Room 39 – west side (bottom)	Wall	Plaster	1.29	Positive	Poor	96 ft^2
67	White	Room 39 – west side	Window frame	Wood	0.014	Negative	Poor	
68	White	Room 39 – east side	Doorframe	Wood	0.0037	Negative	Fair	
69	Brown	Room 39 – east side	Door	Wood	ND	Negative	Fair	
70	Tan	Room 40 – north side (top)	Wall	Plaster	0.031	Negative	Fair	

TABLE D-4

LEAD-BASED PAINT XRF RESULTS
FORMER WYMAN HIGH SCHOOL SITE, EXCELSIOR SPRINGS, MISSOURI

PROJECT NAME Former Wyman High School	**DATE** October 13, 2021
PROJECT NUMBER MOESA109EA1	**INSPECTOR(S)** Lynn Parman
PROJECT LOCATION Excelsior Springs, Missouri	**BUILDING NUMBER/NAME** Third Floor

No.	Color	Room/Location	Component	Substrate	Result (mg/cm^2)	Positive / Negative	Condition	Notes
71	Tan	Room 40 – north side (bottom)	Wall	Plaster	0.149	Negative	Poor	
72	Yellow	Room 40 – east side (top)	Wall	Plaster	0.125	Negative	Poor	
73	Brown	Room 40 – east side (bottom)	Wall	Plaster	0.196	Negative	Poor	
74	Yellow	Room 40 – south side (top)	Wall	Plaster	0.076	Negative	Poor	
75	Brown	Room 40 – south side (bottom)	Wall	Plaster	0.177	Negative	Poor	
76	Yellow	Room 40 – west side (top)	Wall	Plaster	0.104	Negative	Poor	
77	Brown	Room 40 – west side (bottom)	Wall	Plaster	0.148	Negative	Poor	
78	Yellow	Room 40 – west side	Window frame	Wood	0.024	Negative	Fair	
79	Brown	Room 40 – east side	Doorframe	Wood	0.133	Negative	Fair	
80	Brown	Room 40 – east side	Door	Wood	0.082	Negative	Fair	
81	Lt. blue	Room 41 – north side (top)	Wall	Plaster	0.166	Negative	Poor	
82	Lt. blue	Room 41 – north side (bottom)	Wall	Plaster	0.970	Negative	Poor	
83	White	Room 41 – east side (top)	Wall	Plaster	ND	Negative	Poor	
84	Lt. blue	Room 41 – east side (bottom)	Wall	Plaster	1.17	Positive	Poor	152 ft^2
85	Lt. blue	Room 41 – south side (top)	Wall	Plaster	0.268	Negative	Poor	
86	Lt. blue	Room 41 – south side (bottom)	Wall	Plaster	0.0068	Negative	Poor	
87	Lt. blue	Room 41 – west side (top)	Wall	Plaster	0.185	Negative	Poor	
88	Lt. blue	Room 41 – west side (bottom)	Wall	Plaster	0.202	Negative	Poor	

TABLE D-4

LEAD-BASED PAINT XRF RESULTS
FORMER WYMAN HIGH SCHOOL SITE, EXCELSIOR SPRINGS, MISSOURI

PROJECT NAME Former Wyman High School	**DATE** October 13, 2021
PROJECT NUMBER MOESA109EA1	**INSPECTOR(S)** Lynn Parman
PROJECT LOCATION Excelsior Springs, Missouri	**BUILDING NUMBER/NAME** Third Floor

No.	Color	Room/Location	Component	Substrate	Result (mg/cm^2)	Positive / Negative	Condition	Notes
89	White	Room 41 – east side	Window frame	Wood	0.006	Negative	Poor	
90	Brown	Room 41 – west side	Doorframe	Wood	0.051	Negative	Fair	
91	Brown	Room 41 – west side	Door	Wood	0.045	Negative	Fair	
92	Yellow	Room 42 – north side (top)	Wall	Plaster	0.169	Negative	Poor	
93	Brown	Room 42 – north side (bottom)	Wall	Plaster	0.100	Negative	Poor	
94	Yellow	Room 42 – east side (top)	Wall	Plaster	0.245	Negative	Poor	
95	Brown	Room 42 – east side (bottom)	Wall	Plaster	1.38	Positive	Poor	48 ft^2
96	Yellow	Room 42 – south side (top)	Wall	Plaster	0.099	Negative	Poor	
97	Brown	Room 42 – south side (bottom)	Wall	Plaster	0.155	Negative	Poor	
98	Yellow	Room 42 – east side (bottom)	Window frame	Wood	0.044	Negative	Poor	
99	White	Room 43 – north side (top)	Wall	Plaster	ND	Negative	Poor	
100	Grey	Room 43 – north side (bottom)	Wall	Plaster	0.121	Negative	Poor	
101	White	Room 43 – east side (top)	Wall	Plaster	0.316	Negative	Poor	
102	White	Room 43 – east side (bottom)	Wall	Plaster	0.195	Negative	Poor	
103	White	Room 43 – south side (top)	Wall	Plaster	0.309	Negative	Poor	
104	Grey	Room 43 – south side (bottom)	Wall	Plaster	0.347	Negative	Poor	
105	White	Room 43 – west side (top)	Wall	Plaster	0.283	Negative	Poor	
106	Grey	Room 43 – west side (bottom)	Wall	Plaster	1.20	Positive	Poor	132 ft^2

TABLE D-4

LEAD-BASED PAINT XRF RESULTS
FORMER WYMAN HIGH SCHOOL SITE, EXCELSIOR SPRINGS, MISSOURI

PROJECT NAME Former Wyman High School					**DATE** October 13, 2021			
PROJECT NUMBER MOESA109EA1					**INSPECTOR(S)** Lynn Parman			
PROJECT LOCATION Excelsior Springs, Missouri					**BUILDING NUMBER/NAME** Third Floor			
No.	**Color**	**Room/Location**	**Component**	**Substrate**	**Result (mg/cm^2)**	**Positive / Negative**	**Condition**	**Notes**
107	White	Room 43 – east side	Window frame	Wood	1.40	Positive	Fair	5 windows
108	Grey	Room 43 – west side	Doorframe	Wood	0.096	Negative	Poor	
109	Brown	Room 43 – west side	Door	Wood	0.063	Negative	Fair	
110	Brown	Room 43 – north side	Doorframe	Wood	0.045	Negative	Fair	
111	Brown	Room 43 – north side	Door	Wood	0.050	Negative	Poor	
112	Yellow	Room 44 – north side (top)	Wall	Plaster	0.307	Negative	Poor	
113	Brown	Room 44 – north side (bottom)	Wall	Plaster	0.274	Negative	Poor	
114	Yellow	Room 44 – east side (top)	Wall	Plaster	0.008	Negative	Poor	
115	Brown	Room 44 – east side (bottom)	Wall	Plaster	0.509	Negative	Poor	
116	Yellow	Room 44 – south side (top)	Wall	Plaster	ND	Negative	Poor	
117	Brown	Room 44 – south side (bottom)	Wall	Plaster	0.498	Negative	Poor	
118	White	Room 44 – east side (top)	Window frame	Wood	3.76	Positive	Poor	2 windows
119	Yellow	Room 44 – east side (bottom)	Window frame	Wood	3.07	Positive	Poor	1 window
120	Yellow	Room 45 – east side (top)	Wall	Plaster	0.101	Negative	Poor	
121	Brown	Room 45 – east side (bottom)	Wall	Plaster	ND	Negative	Poor	
122	Yellow	Room 45 – west side (top)	Wall	Plaster	0.091	Negative	Poor	
123	Brown	Room 45 – west side (bottom)	Wall	Plaster	0.090	Negative	Poor	

TABLE D-4

LEAD-BASED PAINT XRF RESULTS
FORMER WYMAN HIGH SCHOOL SITE, EXCELSIOR SPRINGS, MISSOURI

Notes: ft^2 Square feet
mg/cm^2 Milligrams per square centimeter (lead)
ND Not detected
XRF X-ray fluorescence

Shaded results indicate lead concentrations greater than or equal to 1.0 mg/cm^2.

TABLE D-5

LEAD-BASED PAINT XRF RESULTS
FORMER WYMAN HIGH SCHOOL SITE, EXCELSIOR SPRINGS, MISSOURI

PROJECT NAME Former Wyman High School	**DATE** October 13, 2021
PROJECT NUMBER MOESA109EA1	**INSPECTOR(S)** Lynn Parman
PROJECT LOCATION Excelsior Springs, Missouri	**BUILDING NUMBER/NAME** Lower Level & Exterior

No.	Color	Room/Location	Component	Substrate	Result (mg/cm^2)	Positive / Negative	Condition	Notes
1	Blue	Room 46 – north side (top)	Wall	Plaster	0.119	Negative	Poor	
2	Red	Room 46 – north side (bottom)	Wall	Concrete	ND	Negative	Poor	
3	Blue	Room 46 – east side (top)	Wall	Plaster	0.092	Negative	Poor	
4	Red	Room 46 – east side (bottom)	Wall	Concrete	0.014	Negative	Poor	
5	Blue	Room 46 – south side (top)	Wall	Plaster	0.053	Negative	Poor	
6	Red	Room 46 – south side (bottom)	Wall	Concrete	2.42	Positive	Poor	160 ft^2
7	Blue	Room 46 – west side (top)	Wall	Plaster	0.062	Negative	Poor	
8	Red	Room 46 – west side (bottom)	Wall	Plaster	0.013	Negative	Poor	
9	Blue	Room 46	Ceiling	Plaster	0.067	Negative	Poor	
10	Red	Room 46 – south side	Doorframe	Wood	0.027	Negative	Fair	
11	Red	Room 46 – south side	Window frame	Wood	0.026	Negative	Fair	
12	Red	Room 46 – east side	Window frame	Wood	0.031	Negative	Fair	
13	Red	Room 46 – west side	Door	Wood	0.028	Negative	Fair	
14	Blue	Room 47 – north side (top)	Wall	Plaster	0.110	Negative	Poor	
15	Red	Room 47 – north side (bottom)	Wall	Plaster	2.24	Positive	Poor	25 ft^2
16	Blue	Room 47 – east side (top)	Wall	Plaster	ND	Negative	Poor	
17	Red	Room 47 – east side (bottom)	Wall	Plaster	ND	Negative	Poor	
18	Blue	Room 47 – south side (top)	Wall	Plaster	0.132	Negative	Poor	

TABLE D-5

LEAD-BASED PAINT XRF RESULTS
FORMER WYMAN HIGH SCHOOL SITE, EXCELSIOR SPRINGS, MISSOURI

PROJECT NAME Former Wyman High School					**DATE** October 13, 2021			
PROJECT NUMBER MOESA109EA1					**INSPECTOR(S)** Lynn Parman			
PROJECT LOCATION Excelsior Springs, Missouri					**BUILDING NUMBER/NAME** Lower Level & Exterior			
No.	**Color**	**Room/Location**	**Component**	**Substrate**	**Result (mg/cm^2)**	**Positive / Negative**	**Condition**	**Notes**
19	Red	Room 47 – south side (bottom)	Wall	Plaster	0.010	Negative	Poor	
20	Red	Room 47 – south side	Doorframe	Wood	ND	Negative	Fair	
21	Red	Room 47 – south side	Door	Wood	ND	Negative	Fair	
22	Blue	Room 48 – north side (bottom)	Wall	Wallboard	ND	Negative	Fair	
23	White	Room 48 – south side (bottom)	Wall	Wallboard	ND	Negative	Fair	
24	Red	Room 48 – west side (top)	Wall	Wallboard	ND	Negative	Fair	
25	Tan	Room 48 – west side (bottom)	Wall	Wallboard	ND	Negative	Fair	
26	Black	Room 48 (top)	Wall	Wallboard	ND	Negative	Poor	
27	White	Exterior – south side (lower level)	Doorframe	Wood	2.35	Positive	Poor	All exterior doorframes, window frames, and trim are assumed LBP
28	White	Exterior – south side (second floor)	Doorframe	Wood	4.24	Positive	Poor	

Notes: ft^2 Square feet
LBP Lead-based paint
mg/cm^2 Milligrams per square centimeter (lead)
ND Not detected
XRF X-ray fluorescence

Shaded results indicate lead concentrations greater than or equal to 1.0 mg/cm^2.

APPENDIX E

ANALYTICAL DATA PACKAGE FOR ASBESTOS SAMPLES

2033 Heritage Park Dr, Oklahoma City, OK 73120 | 1.800.822.1650

Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 340159
Account Number: B698

Client: Seagull Environmental Tech.
415 Oak Street
Kansas City, MO 64106

Date Received: 10/14/2021
Received By: Cyonne Harrod
Date Analyzed: 10/20/2021
Analyzed By: Cassie Sanborn
Methodology: EPA/600/R-93/116

Project: Former Wyman HS
Project Location: Excelsior Springs, MO
Project Number: MOESA109EA1

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
001	FT1-1	Layered	Gray Floor Tile	Asbestos Present Chrysotile 2	NA	CaCO3 Vinyl
001a		Layered	Black Mastic	Asbestos Not Present	NA	Tar
002	FT1-2	Layered	Gray Floor Tile	Asbestos Present Chrysotile 2	NA	CaCO3 Vinyl
002a		Layered	Black Mastic	Asbestos Not Present	NA	Tar
003	FT1-3	Layered	Gray Floor Tile	Asbestos Present Chrysotile 2	NA	CaCO3 Vinyl
003a		Layered	Black Mastic	Asbestos Not Present	NA	Tar
004	FT2-1	Layered	Gray Floor Tile	Asbestos Present Chrysotile 2	NA	CaCO3 Vinyl

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

QuanTEM is a NVLAP accredited Testing PLM laboratory (Lab Code: 101959-0). This report relates only to the specific items tested.
NVLAP accreditation applies only to analysis performed utilizing EPA/600/M4-82-020 and EPA/600/R-93/116 methods.
This report may not be used to claim product endorsement by NVLAP or any agency of the US Government.

2033 Heritage Park Dr, Oklahoma City, OK 73120 | 1.800.822.1650

Polarized Light Microscopy Asbestos Analysis Report

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Client: Seagull Environmental Tech.
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Date Received: 10/14/2021
Received By: Cyonne Harrod
Date Analyzed: 10/20/2021
Analyzed By: Cassie Sanborn
Methodology: EPA/600/R-93/116

Project: Former Wyman HS
Project Location: Excelsior Springs, MO
Project Number: MOESA109EA1

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
004a		Layered	Yellow/Black Mastic	Asbestos Not Present	NA	Glue Tar
005	FT2-2	Layered	Gray Floor Tile	Asbestos Present Chrysotile 2	NA	CaCO3 Vinyl
005a		Layered	Yellow/Black Mastic	Asbestos Not Present	NA	Glue Tar
006	FT2-3	Layered	Gray Floor Tile	Asbestos Present Chrysotile 2	NA	CaCO3 Vinyl
006a		Layered	Yellow/Black Mastic	Asbestos Not Present	NA	Glue Tar
007	FT3-1	Layered	Gray Floor Tile	Asbestos Present Chrysotile 8	NA	CaCO3 Vinyl

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

2033 Heritage Park Dr, Oklahoma City, OK 73120 | 1.800.822.1650

Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 340159
Account Number: B698

Client: Seagull Environmental Tech.
415 Oak Street
Kansas City, MO 64106

Date Received: 10/14/2021
Received By: Cyonne Harrod
Date Analyzed: 10/20/2021
Analyzed By: Cassie Sanborn
Methodology: EPA/600/R-93/116

Project: Former Wyman HS
Project Location: Excelsior Springs, MO
Project Number: MOESA109EA1

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
007a		Layered	Black Mastic	Asbestos Not Present	NA	Tar
008	FT3-2	Layered	Gray Floor Tile	Asbestos Not Present	NA	CaCO3 Vinyl
008a		Layered	Black Mastic	Asbestos Not Present	NA	Tar
009	FT3-3	Layered	Gray Floor Tile	Asbestos Present Chrysotile 8	NA	CaCO3 Vinyl
009a		Layered	Black Mastic	Asbestos Not Present	NA	Tar
010	WB1-1	Homogeneous	White Wallboard	Asbestos Not Present	Cellulose 10	Gypsum Paint
011	WB1-2	Homogeneous	White Wallboard	Asbestos Not Present	Cellulose 10	Gypsum Paint

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

2033 Heritage Park Dr, Oklahoma City, OK 73120 | 1.800.822.1650

Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 340159
Account Number: B698

Client: Seagull Environmental Tech.
415 Oak Street
Kansas City, MO 64106

Date Received: 10/14/2021
Received By: Cyonne Harrod
Date Analyzed: 10/20/2021
Analyzed By: Cassie Sanborn
Methodology: EPA/600/R-93/116

Project: Former Wyman HS
Project Location: Excelsior Springs, MO
Project Number: MOESA109EA1

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
012	WB1-3	Homogeneous	White Wallboard	Asbestos Not Present	Cellulose 10	Gypsum Paint
013	SV1-1	Homogeneous	Green Sheet Vinyl	Asbestos Present Chrysotile 15	Cellulose 5	CaCO3 Vinyl
014	SV1-2	Layered	Green Sheet Vinyl	Asbestos Present Chrysotile 15	Cellulose 5	CaCO3 Vinyl
014a		Layered	Beige Floor Tile	Asbestos Present Chrysotile 8	NA	CaCO3 Vinyl
014b		Layered	Black Mastic	Asbestos Not Present	NA	Tar
015	TI1-1	Homogeneous	Yellow Insulation	Asbestos Not Present	Glass Fiber 100	

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

2033 Heritage Park Dr, Oklahoma City, OK 73120 | 1.800.822.1650

Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 340159
Account Number: B698

Client: Seagull Environmental Tech.
415 Oak Street
Kansas City, MO 64106

Date Received: 10/14/2021
Received By: Cyonne Harrod
Date Analyzed: 10/20/2021
Analyzed By: Cassie Sanborn
Methodology: EPA/600/R-93/116

Project: Former Wyman HS
Project Location: Excelsior Springs, MO
Project Number: MOESA109EA1

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
016	TI1-2	Homogeneous	Yellow Insulation	Asbestos Not Present	Glass Fiber 100	
017	TI1-3	Homogeneous	Yellow Insulation	Asbestos Not Present	Glass Fiber 100	
018	DT1-1	Homogeneous	Silver Duct Tape	Asbestos Not Present	Cellulose 30 Glass Fiber 10	Foil Binder
019	DT1-2	Homogeneous	Silver Duct Tape	Asbestos Not Present	Cellulose 30 Glass Fiber 10	Foil Binder
020	CB1-1	Layered	Black Cove Base	Asbestos Not Present	NA	Vinyl Binder
020a		Layered	Brown Mastic	Asbestos Not Present	NA	Glue
021	CB1-2	Layered	Black Cove Base	Asbestos Not Present	NA	Vinyl Binder

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

QuanTEM is a NVLAP accredited Testing PLM laboratory (Lab Code: 101959-0). This report relates only to the specific items tested.
NVLAP accreditation applies only to analysis performed utilizing EPA/600/M4-82-020 and EPA/600/R-93/116 methods.
This report may not be used to claim product endorsement by NVLAP or any agency of the US Government.

2033 Heritage Park Dr, Oklahoma City, OK 73120 | 1.800.822.1650

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021a		Layered	Brown Mastic	Asbestos Not Present	NA	Glue
022	CB1-3	Layered	Black Cove Base	Asbestos Not Present	NA	Vinyl Binder
022a		Layered	Brown Mastic	Asbestos Not Present	NA	Glue
023	PL1-1	Homogeneous	Tan Plaster	Asbestos Not Present	NA	Gypsum Perlite
024	PL1-2	Homogeneous	Tan Plaster	Asbestos Not Present	NA	Gypsum Perlite Paint
025	PL1-3	Homogeneous	Tan Plaster	Asbestos Not Present	NA	Gypsum Perlite Paint

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QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
026	PL1-4	Homogeneous	Tan Plaster	Asbestos Not Present	NA	Gypsum Perlite
027	PL1-5	Homogeneous	Tan Plaster	Asbestos Not Present	NA	Gypsum Perlite
028	PL1-6	Homogeneous	Tan Plaster	Asbestos Not Present	NA	Gypsum Perlite
029	PL1-7	Homogeneous	Tan Plaster	Asbestos Not Present	Hair <1	Gypsum Sand
030	BB1-1	Homogeneous	Black Chalk Board	Asbestos Not Present	NA	CaCO3 Binder
031	BB1-2	Homogeneous	Black Chalk Board	Asbestos Not Present	NA	CaCO3 Binder
032	BB1-3	Homogeneous	Black Chalk Board	Asbestos Not Present	NA	CaCO3 Binder

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Project: Former Wyman HS
Project Location: Excelsior Springs, MO
Project Number: MOESA109EA1

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)		Non Fibrous
033	WB2-1	Layered	Brown Mastic	Asbestos Not Present	NA		CaCO3 Glue
033a		Layered	White Wallboard	Asbestos Not Present	Cellulose	10	Gypsum
034	WB2-2	Homogeneous	White Wallboard	Asbestos Not Present	Cellulose	10	Gypsum
035	WB2-3	Layered	Brown Mastic	Asbestos Not Present	NA		CaCO3 Glue
035a		Layered	Brown Wallboard	Asbestos Not Present	Cellulose	10	Gypsum
036	RM1-1	Homogeneous	Black Roofing	Asbestos Not Present	Glass Fiber	25	Tar Sand

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QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)		Non Fibrous
037	RM1-2	Homogeneous	Black Roofing	Asbestos Not Present	Glass Fiber	25	Tar Sand

Cassie Sanborn, Laboratory Analyst

10/20/2021
Date of Report

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ASBESTOS CHAIN OF CUSTODY

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www.QuanTEM.com
2033 Heritage Park Drive, Oklahoma City, OK 73120-7502
(800) 822-1650 • (405) 755-7272 • Fax: (405) 755-2058

LEGAL DOCUMENT - PLEASE PRINT LEGIBLY

For Lab Use Only	
Lab No.	340159
	Accept / Reject

Contact Information			
Company:	Seagull Environmental Tech.	Phone:	(913) 908-4695
Contact:	Lynn Parman	Cell Phone:	(913) 908-4695
Account #:		E-mail:	lynn_parman@yahoo.com
Sampled By:	Name: Lynn Parman	Date:	10/13/21

Project Information	
Project Name:	Former Wyman HS
Project Location:	Excelsior Springs, MO
Project ID:	MOESA109EA1
P.O. Number:	

Report Results (☑ one box)	
☐	QuanTEM Website
☑	Email lynn_parman@yahoo.com
☐	Other _____

RELINQUISHED BY	DATE & TIME	VIA	RECEIVED BY	DATE & TIME
[signature]	10/13/21, 1420	FedEx	CCM	10/14/21 @ 9:40

REQUESTED SERVICES (Please ☑ the Appropriate Boxes)

PLM	
☑	Bulk Analysis (EPA 600/R-93/116)
☐	400 Point Count
☐	1000 Point Count
☐	Gravimetric Preparation
☐	Particle ID

PLM	
☐	Vermiculite Attic Insulation (EPA 600/R-04/004)
☐	Other

PCM	
☐	NIOSH 7400

TEM	
☐	Air- AHERA
☐	Air- NIOSH 7402
☐	Air- ISO 10312
☐	Drinking Water- EPA 100.2
☐	Waste Water- EPA 600/4-83-043

TEM	
☐	Bulk- Presence / Absence EPA600/R-93/116
☐	Bulk- Quantitative [weight%]- Chatfield
☐	Dust- Presence / Absence
☐	Dust- Quantitative [fibers/sq.cm]- ASTM D5755
☐	Other

TURNAROUND TIME	
☐	Rush
☐	Same Day
☐	24 - Hour
☐	3 - Day
☑	5 - Day

No.	Sample ID (10 Characters Max)	☑ To Be Analyzed	Color	Description	Volume / Area (as applicable)	Comments / Notes
1	FT1-1	☑	Grey/black	9" Floor tile		
2	FT1-2	☑	Grey/black	9" Floor tile		
3	FT1-3	☑	Grey/black	9" Floor tile		
4	FT2-1	☑	Grey/black	12" Floor tile		
5	FT2-2	☑	Grey/black	12" Floor tile		
6	FT2-3	☑	Grey/black	12" Floor tile		
7	FT3-1	☑	Grey/black	9" Floor tile		
8	FT3-2	☑	Grey/black	9" Floor tile		
9	FT3-3	☑	Grey/black	9" Floor tile		
10	WB1-1	☑	White	Wallboard		

SATURDAY FEDEX SAMPLE DELIVERY - CALL TO SCHEDULE • Use this address for Saturday Delivery only: 4220 N. Santa Fe Ave., Oklahoma City, OK 73105-8517 • Mark Package "Hold for Saturday Pickup"
Please Note - UPS and USPS are NOT available for Saturday Delivery

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Project Information		
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No.	Sample ID (10 Characters Max)	☑ To Be Analyzed	Color	Description	Volume / Area (as applicable)	Comments / Notes
11	WB1-2	☑	White	Wallboard		
12	WB1-3	☑	White	Wallboard		
13	SV1-1	☑	Green/tan	Sheet vinyl flooring		
14	SV1-2	☑	Green/tan	Sheet vinyl flooring		
15	TI1-1	☑	Yellow	Tank insulation		
16	TI1-2	☑	Yellow	Tank insulation		
17	TI1-3	☑	Yellow	Tank insulation		
18	DT1-1	☑	Silver	Duct tape		
19	DT1-2	☑	Silver	Duct tape		
20	CB1-1	☑	Black/tan	Cove base		
21	CB1-2	☑	Black/tan	Cove base		
22	CB1-3	☑	Black/tan	Cove base		
23	PL1-1	☑	Tan	Plaster		
24	PL1-2	☑	Tan	Plaster		
25	PL1-3	☑	Tan	Plaster		
26	PL1-4	☑	Tan	Plaster		
27	PL1-5	☑	Tan	Plaster		
28	PL1-6	☑	Tan	Plaster		
29	PL1-7	☑	Tan	Plaster		
30	BB1-1	☑	Black	Chalkboard		

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No.	Sample ID (10 Characters Max)	☑ To Be Analyzed	Color	Description	Volume / Area (as applicable)	Comments / Notes
31	BB1-2	☑	Black	Chalkboard		
32	BB1-3	☑	Black	Chalkboard		
33	WB2-1	☑	White	Wallboard		
34	WB2-2	☑	White	Wallboard		
35	WB2-3	☑	White	Wallboard		
36	RM1-1	☑	Black	Roofing material		
37	RM1-2	☑	Black	Roofing material		
38		☐				
39		☐				
40		☐				
41		☐				
42		☐				
43		☐				
44		☐				
45		☐				
46		☐				
47		☐				
48		☐				
49		☐				
50		☐				

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