

## **Department of Procurement Services**

160 South Hollywood Street · Room 126 · Memphis, TN 38112 · (901) 416-5376

January 15, 2021

RE: Addendum #2: IFB#01222021LJS – Germantown HS HVAC Renovations

Dear Bidders:

This Addendum forms a part of the Contract Documents and modifies the Plans and Specifications dated January 4, 2021. The Contractor shall acknowledge receipt of this Addendum on the Bid Form. Failure to do so may subject the Bidder to disqualification.

#### Item #1

Questions & Responses—Please see questions and responses to the above referenced project.

#### Question 1.

Is temporary heating and cooling needed?

#### Response

No.

#### **Question 2.**

In Building "MA" where the chiller is being replaced. Who holds the bond on the roof?

#### Response

The existing roof on the "MA" building is not under warranty; however, any roof work or modifications on any of the roofs shall be performed by a manufacturer approved roofing vendor. The existing roof system on the "MA" building is Firestone.

#### Question 3.

In a couple of the mechanical rooms, the return duct is enclosed in plastic. Does the new return duct need to be done this way?

#### Response

We are unaware of any return ductwork being wrapped in plastic. We are assuming that the question relates to the plaster enclosure around the supply air ducts at the two AHU's in Building MA. If this is the case, that portion of the plaster from that is removed from around the ducts may be replaced with rigid, fiberglass insulation board, 1" thick, 6 pcf and with an FRK facing.

Item #2 - <u>SPECIFICATIONS</u>, <u>SECTION 00 1100 - SUPPLEMENTARY INSTRUCTIONS</u>
<u>TO BIDDERS</u>: Page 1, Paragraph 2.2, after "Submit Bids to:" delete and insert the following address:

Procurement Services Office 160 South Hollywood Street, Room #126 Memphis, Tennessee 38112

Item #3 - <u>SPECIFICATIONS</u>, <u>SECTION 00 8000 - SUPPLEMENTARY CONDITIONS</u>: Page 1, Paragraph 2.1 B., change "TOTAL PER DAY <u>\$800.00/day</u>" to "TOTAL PER DAY <u>\$500.00/day</u>".

Item #4 - <u>SPECIFICATIONS</u>, <u>SECTION 01 3300 - SUBMITTALS</u>: Page 1, Paragraph 2.2 C.2., second line, change "(i.e. "Bellevue Middle")" to "(i.e. Germantown High School")".

# Item #5 - SPECIFICATIONS, SECTION 23 2113 - HYDRONIC PIPING:

- 1. Page 1, Paragraph 1.2 A.8.a.7., delete "7." in its entirety.
- 2. Page 5, Paragraph 2.6 A.1., add the following to end of paragraph:

"Treatment shall be performed by Chemtreat under contract with SCS. Contact Jason McKay at 901-277-1985."

- 3. Page 9, Paragraph 3.8 B., delete and insert the following Paragraph "B." as follows:
  - "B. Contact Jason McKay at (901-277-1985) for initial chemical treatment."

Item #6 – SPECIFICATIONS, SECTION 00 3300A – GERMANTOWN HIGH SCHOOL ASBESTOS SPEC: Insert the attached "ASBESTOS TEST RESULTS (i.e. Reports PO150NAT.1, PO150NAT.2, PO150NAT.3 and PO150NAT.4) – BLDGS M and MA AIR HANDLING ROOMS" dated October 15, 2020, consisting of 12 pages.

Thank you, Procurement Services



Specialists in Microanalysis

E-mail: customerservice@mselabs.com • Website: www.mselabs.com

Date:

October 15, 2020

Attention:

Chester Ervin

National Econ Corp.

Subject:

Analysis of bulk samples for asbestos mineral fibers by Polarized Light

Microscopy (PLM) with Dispersion Staining (EPA/600/R-93/116)

RE:

MSE-PO150NAT.1

Germantown High; M Bldg - 1st Floor, Air Handling Room on South End

Project

#### Dear Mr. Ervin:

McCall & Spero Environmental, Inc. has completed the analyses of the bulk samples we received from your offices on October 15, 2020. These samples represent the bulk samples from the Germantown High; M Bldg - 1<sup>st</sup> Floor, Air Handling Room on South End Project.

The PLM bulk analysis was performed according to the "Method of the Determination of Asbestos in Bulk Building Materials", R. L. Perkins and B. W. Harvey (EPA/600/R-93/116).

The results for the three (3) samples are summarized in the following report. Please note that for samples consisting of two or more distinct components, each component is analyzed and reported individually (EPA 40 CFR Part 61 [FRL-4821-71]).

Thank you for consulting McCall & Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

Sincerely,

Amber D. Schultz, B.A.



Page 1

Project Name: Germantown High; M Bldg - 1st Floor, Air Handling Room on South End Project

McCall & Spero Environmental Project No. MSE-PO150NAT.1

MSE # PO150NAT.1	SAMPLE# DESCRIPTION	ASBESTOS TYPE & %	OTHER FIBROUS MATERIAL & %	% NON-FIBROUS MATERIAL	COLOR
	S-1				
	Concrete Ceiling				
001	Material	ND**	Cellulose / 5%	95%	Gray
	S-2	, , , , , , , , , , , , , , , , , , , ,			
	Concrete Ceiling				
002	Material	ND**	Cellulose / 5%	95%	Gray
	S-3				
	Concrete Ceiling				7. 1
003	Material	ND**	Cellulose / 5%	95%	Gray

#### NOTES:

ND = None Detected

CH = Chrysotile

A = Amosite

AC = Actinolite

CR = Crocidolite

AN = Anthophyllite TR = Tremolite

For samples consisting of separate components, each component is analyzed and reported separately.

Results apply only to items tested. Quantification is accurate to within ± 10%. Results from this report must not be reproduced, except in full, with the approval of McCall & Spero Environmental, Inc. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.

\*\* EPA recommends that bulk materials found negative for asbestos or less than one percent asbestos by polarized light microscopy that fall into one of five dominantly nonfriable categories be reanalyzed by an additional method, such as transmission electron microscopy. (EPA Notice of Advisory, FR Vol. 59, No. 146 & Test Method EPA 600/ R-93/ 116).

Analyst: Amber D. Schultz, B.A.

		Asbe	stos Bulk Sample Form	J. 1.
Building: 6	rmantown H	75h Date: 10.	I ocation: M BUs	pler: James Hugher handling Rm on south
viateriai. Con	crete ceili	ng material	End	of MBIL
·ipe/Tank  Insulation	HVAC    Sinsulation   Siape   Ceiling   Sipopcorn   Siextured   Sisuspended tile   Siglued-on tile   S	Roofing Shingle Solve of the control	Concrete Ceiling  Material  Gray  Sample No.: 5-1  Color: Gray  Quantity: 1	Room: A'r handling Rm  Location: N S E W  wall floor ceiling other:  Comments:
Pipe/Tank  insulation elbow fitting fittansite pipe gasket tank insulation Flooring 12 x 12 tile 9 x 9 tile finoleum mastic fructural fireproofing	HVAC  image  Ceiling  impopern  inextured  image  buspended tile  imastic  wall  imastic  wall  imastic  wall  imastic  textured wall  imastic	Roofing shingle shingle stored felt tar transite shingle  Misc stransite siding stransite bench strandow putty other:	Concrete Ceiling  Minterial  Sample No.: 5-2  Color: Gray  Quantity: 1	Floor: 152  Room: Air handling han  Location: N S E W  wall floor ceiling other:  Comments:
Pipe/Tank  insulation  insulat	HVAC  insulation  inape  Ceiling  inpopern  inextured	Roofing shingle rolled rolled relet tar transite shingle  Misc relat transite shingle	46 🗇	Floor:
Fipe/Tank  sinsulation selbow	HVAC  Image  Ceiling  Image  Ceiling  Image	Roofing shingle shingle rolled stream tar stransite shingle  Misc stransite siding stransite bench stransite window putty	Quantity:	Floor:Room:

Specialists in Microanalysis

E-mail: customerservice@mselabs.com • Website: www.mselabs.com

Date:

October 15, 2020

Attention:

Chester Ervin

National Econ Corp.

Subject:

Analysis of bulk samples for asbestos mineral fibers by Polarized Light

Microscopy (PLM) with Dispersion Staining (EPA/600/R-93/116)

RE:

MSE-PO150NAT.2

Germantown High; MA Bldg - 1st Floor, Air Handling Room Downstairs

Project

#### Dear Mr. Ervin:

McCall & Spero Environmental, Inc. has completed the analyses of the bulk samples we received from your offices on October 15, 2020. These samples represent the bulk samples from the Germantown High; MA Bldg - 1<sup>st</sup> Floor, Air Handling Room Downstairs Project.

The PLM bulk analysis was performed according to the "Method of the Determination of Asbestos in Bulk Building Materials", R. L. Perkins and B. W. Harvey (EPA/600/R-93/116).

The results for the three (3) samples are summarized in the following report. Please note that for samples consisting of two or more distinct components, each component is analyzed and reported individually (EPA 40 CFR Part 61 [FRL-4821-71]).

Thank you for consulting McCall & Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

Sincerely,

Amber D. Schultz, B.A.



Page 1

Project Name: Germantown High; MA Bldg - 1st Floor, Air Handling Room Downstairs Project

McCall & Spero Environmental Project No. MSE-PO150NAT.2

MSE # PO150NAT.2	SAMPLE # DESCRIPTION	ASBESTOS TYPE & %	OTHER FIBROUS MATERIAL & %	% NON-FIBROUS MATERIAL	COLOR
	S-1			0	
	Concrete Ceiling				a
001	Material	ND**	Cellulose / 4%	96%	Off White
	S-2				
	Concrete Ceiling				
002	Material	ND**	Cellulose / 4%	96%	Off White
	S-3				
	Concrete Ceiling				
003	Material	ND**	Cellulose / 4%	96%	Off White

#### NOTES:

ND = None Detected

CH = Chrysotile

A = Amosite

AC = Actinolite

CR = Crocidolite

AN = Anthophyllite TR = Tremolite

For samples consisting of separate components, each component is analyzed and reported separately.

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\*\* EPA recommends that bulk materials found negative for asbestos or less than one percent asbestos by polarized light microscopy that fall into one of five dominantly nonfriable categories be reanalyzed by an additional method, such as transmission electron microscopy. (EPA Notice of Advisory, FR Vol. 59, No. 146 & Test Method EPA 600/ R-93/116).

Analyst: Amber D. Schultz, B.A

	, 11	Asbes	tos Bulk Sample Form	
Building:	rmantown It	righ Date: 10-	9-20 Sam	pler: James Hughes
Material:	encrete Cei	iling Material	Location: Hir hand	ling Ren MA BIL downshare
Pipe/Tank  Insulation  Insula	HVAC 園nsulation 園ape Ceiling Bopcorn Mextured Buspended tile Buspended tile Buspended tile Mali sheetrock Buspetrock Bus	Roofing Shingle Shingle Trolled Trolled Trelt Transite shingle  Misc Transite siding Transite bench Transite window putty Transite siding	Color: Corm Quantity:	Floor: Standar Rundownshirs Location: N S E W  wall floor ceiling other:  Comments:
Pipe/Tank  Ilinsulation  Illelbow  Iffitting Itransite pipe Illelbox	HVAC    Image   Image	Roofing shingle rolled felt tar transite shingle  Misc stransite siding shindow putty other:	Concrete Ceilins Material  Sample No.: 5-2  Color: Gray Quantity: 1	Floor: 15th Room: Air hyddler Rm downshirs Location: N S E W wall floor above ceiling other:
Pipe/Tank  insulation elbow infitting itransite pipe gasket intank insulation Flooring intank insulation Flooring interpoofing interpoofing interpoofing interpoofing	対 lued-on tile     対 lued-on tile     対 nastic     Wall	Roofing Sistingle Sistrolled Sist	1 /	Floor: 15L Room: Archandler Rn. downskirs Location: N S E W wall floor ceiling other:  Comments:
Pipe/Tank  insulation  elbow  fitting  fransite pipe  gasket  fank insulation  Flooring  12 x 12 tile  9 x 9 tile  inoleum  mastic	题glued-on tile 题mastic Wall 题 sheetrock	Roofing   Standard   S		Floor: Room: Location: N S E W wall floor ceiling above ceiling other: Comments:
Structural fireproofing	ছ textured wall ছ transite panel			r: Drone/graphics/EHS Forms/Asbestos Bulk Sample Form.p65 Drone/graphics/EHS Forms/Asbestos Bulk Sample Form.pdf



E-mail: customerservice@mselabs.com . Website: www.mselabs.com

Date:

October 15, 2020

Attention:

Chester Ervin

National Econ Corp.

Subject:

Analysis of bulk samples for asbestos mineral fibers by Polarized Light

Microscopy (PLM) with Dispersion Staining (EPA/600/R-93/116)

RE:

MSE-PO150NAT.3

Germantown High; M Bldg - 1st Floor, Air Handling Room on North End

Project

#### Dear Mr. Ervin:

McCall & Spero Environmental, Inc. has completed the analyses of the bulk samples we received from your offices on October 15, 2020. These samples represent the bulk samples from the Germantown High; M Bldg - 1<sup>st</sup> Floor, Air Handling Room on North End Project.

The PLM bulk analysis was performed according to the "Method of the Determination of Asbestos in Bulk Building Materials", R. L. Perkins and B. W. Harvey (EPA/600/R-93/116).

The results for the six (6) samples are summarized in the following report. Please note that for samples consisting of two or more distinct components, each component is analyzed and reported individually (EPA 40 CFR Part 61 [FRL-4821-71]).

Thank you for consulting McCall & Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

Sincerely,

Amber D. Schultz, B.A.



Page 1

Project Name: Germantown High; M Bldg - 1st Floor, Air Handling Room on North End Project

McCall & Spero Environmental Project No. MSE-PO150NAT.3

			02 12 22 10		
MSE # PO150NAT.3	SAMPLE # DESCRIPTION	ASBESTOS TYPE & %	OTHER FIBROUS MATERIAL & %	% NON-FIBROUS MATERIAL	COLOR
	S-1 (A)				
	Concrete Ceiling		£ .		
001 (A)	Material	ND**	Cellulose / 5%	95%	Gray
	S 1 (D)			V	
001 (D)	S-1 (B)	3 TD shah		www.cooperior	
001 (B)	Skim Coat	ND**	Cellulose / 2%	98%	White
	S-2 (A)				
	Concrete Ceiling				
002 (A)	Material	ND**	Cellulose / 5%	95%	Gray
	C 2 (D)				
002 (D)	S-2 (B)				
002 (B)	Skim Coat	ND**	Cellulose / 2%	98%	White
	S-3 (A)				
	Concrete Ceiling				
003 (A)	Material	ND**	Cellulose / 5%	95%	Gray
	2.2.00				<u> </u>
	S-3 (B)				
003 (B)	Skim Coat	ND**	Cellulose / 2%	98%	White

#### NOTES:

ND = None Detected

CH = Chrysotile

A = Amosite

AC = Actinolite

CR = Crocidolite

AN = Anthophyllite TR = Tremolite

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Analyst: Amber D. Schultz, B.A.

McCall & Spero Environmental, Inc.

Building: 6	ermintoun 1	tick Date: In-	stos Bulk Sample Form タームの Sam	pler: James Hugles
Material:	oncrete c	eiling.	Location: Air Han	dling Rm North Bldg
Pipe/Tank  Sinsulation Elbow Fitting Fitting Fitansite pipe Figasket Tank insulation Flooring 12 x 12 tile 9 x 9 tile Inoleum Fimastic Structural Fifireproofing	HVAC	Roofing Shingle Shingle Shingle Shingle Shingle Shingle Shingle Shingle Misc Shingle Misc Shingle Misc Shingle Misc Shingle Misc Shingle Shing	Concrete Material Ceilins Bldg North Sample No.: 5-1 Color: 6-my Quantity:	Floor: 15th Room: Air handling Rm North End & Location: N S E W wall floor ceiling other.  Comments: Concrete ceiling material
Pipe/Tank  insulation  elbow institting intransite pipe intran	HVAC  imposition	Roofing shingle rolled felt tar transite shingle  Misc flab bench window putty	Courett material North  Chillian Malerial  Sample No.: S-2  Color: Gray  Quantity:	Floor:
Pipe/Tank  insulation  insulat	HVAC  insulation  inape  Ceiling  inpopeorn  inextured  insulation  inpopeorn  inpopeorn  inextured  inextured  inextured  inextic  Wall  inextured  inext	Roofing shingle rolled felt tar transite shingle Misc stransite siding hab bench window putty	Contret Material  Ceiling Moth  Ceiling Moth  Sample No.: 5-3  Color: 6 ray  Quantity: 1	Floor: St. Room: Air handling km North Sto Location: N S E W  wall floor ceiling other:  Comments:  Concret ceiling material
Pipe/Tank  insulation  ielbow  ifitting  iransite pipe  igasket  itank insulation  Flooring  itank insulation  Flooring  itank insulation  Flooring  itank insulation  itank i	HVAC IMInsulation IMInsulation IMInsulation IMInsulation IMINSULATION IMINSULAT	Roofing Shingle Shingle Folled Folle	Quantity:	Floor:Room:

E-mail: customerservice@mselabs.com . Website: www.mselabs.com

Date:

October 15, 2020

Attention:

Chester Ervin

National Econ Corp.

Subject:

Analysis of bulk samples for asbestos mineral fibers by Polarized Light

Microscopy (PLM) with Dispersion Staining (EPA/600/R-93/116)

RE:

MSE-PO150NAT.4

Germantown High; MA Bldg - 2nd Floor, Air Handling Room Upstairs

Project

#### Dear Mr. Ervin:

McCall & Spero Environmental, Inc. has completed the analyses of the bulk samples we received from your offices on October 15, 2020. These samples represent the bulk samples from the Germantown High; MA Bldg - 2nd Floor, Air Handling Room Upstairs Project.

The PLM bulk analysis was performed according to the "Method of the Determination of Asbestos in Bulk Building Materials", R. L. Perkins and B. W. Harvey (EPA/600/R-93/116).

The results for the three (3) samples are summarized in the following report. Please note that for samples consisting of two or more distinct components, each component is analyzed and reported individually (EPA 40 CFR Part 61 [FRL-4821-71]).

Thank you for consulting McCall & Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

Sincerely,

Amber D. Schultz, B.A.



Page 1

Project Name: Germantown High; MA Bldg - 2nd Floor, Air Handling Room Upstairs Project

McCall & Spero Environmental Project No. MSE-PO150NAT.4

MSE # PO150NAT.4	SAMPLE # DESCRIPTION	ASBESTOS TYPE & %	OTHER FIBROUS MATERIAL & %	% NON-FIBROUS MATERIAL	COLOR
	S-1				COLOR
	Concrete Ceiling				
001	Material	ND**	Cellulose / 3%	97%	White
	S-2			7770	vv IIIte
	Concrete Ceiling				
002	Material	ND**	Cellulose / 3%	97%	White
	S-3			77.7	Willite
	Concrete Ceiling				
003	Material	ND**	Cellulose / 3%	97%	White

#### NOTES:

ND = None Detected

CH = Chrysotile

A = Amosite

AC = Actinolite

CR = Crocidolite

AN = Anthophyllite TR = Tremolite

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Analyst: Amber D. Schultz, B.A.

· · · · · · · · · · · · · · · · · · ·		Asbe	stos Bulk Sample Form	· · · · · · · · · · · · · · · · · · ·
		tish Date: 10-		ler Rm MA bldg UPSTAIRS
Pipe/Tank  Insulation  Insulat	HVAC  insulation insul	Roofing shingle rolled felt tar transite shingle  Misc fransite siding fallab bench window putty	Concrete Ceiling  Marterial  Sample No.: S-1  Color: Gray  Quantity:	Floor:  Room:  A'r handler Rm  Location:  N S E W  wall floor ceiling other:  above ceiling other:  Comments:  Air handler Rm MAbles upstar
Pipe/Tank  insulation  elbow  fitting  fransite pipe  gasket  tank insulation  Flooring  12 x 12 tile  9 x 9 tile  inoleum  mastic  Structural  freproofing	HVAC  Image  Ceiling  Deprivation  Deprivati	Roofing Shingle Shingle Folled Star Itaniste shingle  Misc Itaniste siding Shingle Shingle Misc Shingle	Concrete Ceiling  Martinal  Sample No.: S-2  Color: Gray  Quantity:	Floor: 2nd Room: Air hardler km Location: N S E W wall floor ceiling other.  Comments: Hir handler km Upstairs MA blos
Pipe/Tank  insulation  illelbow  ill	HVAC  manulation  appe  Ceiling  bopocorn  stextured  suspended tile  suppended tile  mastic  Wall  sheetrock  textured wall  transite panel	Roofing  Sistingle  Sirolled  Sifelt  Site transite shingle  Misc  Site transite siding  Site lab bench  Site window putty  The part of the content of the c	Concrete Ceiling Material  Sample No.: 5-3  Color: Gray Quantity: 1	Floor:  Room: Air hander kw  Location: N S E W  wall floor ceiling other:  Comments:  Air handler Rm UPStack  MA blds
Pipe/Tank  insulation insulation inselbow institting instransite pipe insulation insulat	HVAC  Insulation	Roofing   Shingle     Shingle     Shingle     Shifelt     Shiltar     Shiltansite shingle     Misc     Shiltansite siding     Shiltansite shingle     Shiltansite siding     Shiltansite shingle     Shiltansite siding     Shiltansi	Quantity:	Floor:Room: