17"

DISTRICT WIDE SCHOOL UPGRADES NAUGATUCK, CONNECTICUT 06770

S/P+A PROJECT NO. 16.041

Date Issued: June 29, 2016

The following changes to the Drawings and Project Specifications shall become a part of the Drawings and Project Specifications; superseding previously issued Drawings and Project Specifications to the extent modified by Addendum No. 1.

General Information:

- The prebid meeting sign-in sheet is attached for reference. (1)
- An additional addendum (#2) will be forthcoming.

New Specifications:

• HILLSIDE IS LIMITED ADDITIONAL HAZARDOUS MATERIAL SURVEY REPORT, dated June 2016, has been added and is attached as part of this addendum (17).

Changes to the Specifications:

- TABLE OF CONTENTS:
 - o Page 1, Division 0 Bidding and Contract Documents, Prevailing Wage Rate Information, Pages, add "34".
 - o Page 2, Division 2 Existing Conditions, add the following:

"Hillside IS Limited Additional Hazardous Material Survey Report, June 2016

- BID FORM, Page 1, revise "August 22, 2016" to read "October 31, 2016".
- PREVAILING WAGE RATE INFORMATION, Wage Rates, dated June 17, 2016 have been added and are attached at part of this addendum. (15)

The bid date is changed to Monday, July 11, 2016 at 2:00pm by this addendum.

The addendum consists of thirty-four (34) pages of 8½"x11" text. End of Addendum '1'

SILVER/PETRUCELLI + ASSOCIATES

Architects / Engineers / Interior Designers 3190 Whitney Avenue, Hamden, CT 06518-2340 Tel: 203 230 9007 Fax: 203 230 8247

silverpetrucelli.com

Project: Naugatuck District Wide School Upgrades (16.041) June 21, 2016 @ 1:30 PM (Andrew Ave School) Pre-Bid Sign-in Sheet

NAME	COMPANY	PHONE	EMAIL
from threy	SILVER/PETRUBL!	203-250-9007	rhaley e silverpetrucelli.com
MIKE LYNCH	NAMERICAL DIRECTOR OF FACULIES 203-720-5265	203-720-5265	mike. I ynch C naugatuck. K12.ct. us
Nat Picco	Picco Construction	718-606-2844	natpicco@aol.com

LIMITED ADDITIONAL HAZARDOUS MATERIAL SURVEY REPORT

for

Hillside Intermediate School
51 Hillside Avenue
Naugatuck, Connecticut

Prepared For:

Silver/Petrucelli & Associates 3190 Whitney Avenue Building 2 Hamden, Connecticut 06518

Prepared By:

Langan CT, Inc. 555 Long Wharf Drive New Haven, CT 06511

Matthew A. Myers Senior Hazmat Specialist

> 15 June 2016 140141601



Langan Project No.: 140141601

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ACRONYMS

Langan Project No.: 140141601

USEPA	United States Environmental Protection Agency
AHERA	Asbestos Hazard Emergency Response Act
OSHA	Occupational Safety and Health Administration
PPE	Personal Protective Equipment
CFR	Code of Federal Regulation
NESHAPS	National Standards for Hazardous Air Pollutants
HUD	Housing and Urban Development
CTDPH	Connecticut Department of Public Health
RCRA	Resource Conservation and Recovery Act
PLM	Polarized Light Microscopy
TEM	Transmission Electron Microscopy
ACM	Asbestos-Containing Materials
LBP	Lead-Based Paint
PCB	Polychlorinated Biphenyls (PCB)
SF	Square Feet
LF	Linear Feet
TCLP	Toxicity Characteristic Leaching Procedure
mg/cm ²	Milligrams per square centimeter
XRF	X-ray Fluorescence
AAS	Atomic Absorption Spectrometry



1.0 INTRODUCTION

Langan Project No.: 140141601

Langan CT, Inc. (Langan) prepared this limited additional Hazardous Materials (Hazmat) Survey Report on behalf of the Silver Petrucelli & Associates Architects and the Town of Naugatuck to identify possible asbestos containing/contaminated ceiling tiles/grid support system that may exist in limited portions of Hillside Intermediate School at 51 Hillside Avenue in Naugatuck, Connecticut. The survey was limited to the ceilings in the main building - second and third floor and limited areas of the addition. Naugatuck reported that the majority of the ceilings on the first floor are being replaced by another project.

Previous AHERA and NESHAP inspection data had conflicting information about the ceiling tiles. The last three year AHERA re-inspection assumed the ceiling tiles throughout contain asbestos. TRC was reported to have taken ceiling tile bulk samples from throughout the school and asbestos containing ceiling tiles were only identified in the lower floor corridor of the main building. Langan obtained bulk samples from the third and second floors and these appeared to be the same as the first floor so additional samples were obtained from limited areas in the first floor to compare the results against the ceiling tiles in the upper two floors. No ceilings were tested in the basement floor.

Langan's April bulk sampling found the ceiling tiles did not contain asbestos in the main building (excluding asbestos containing ceiling tiles sampled in first floor corridor by TRC), however a couple areas of amosite asbestos containing ceiling tiles were found in the building addition. Due to the conflicting results and the possibility that older ceiling tiles (possibly asbestos containing) may have been replaced throughout, Langan obtained confirmatory bulk samples of the different types of ceiling tiles throughout the second and third floor and the first floor addition corridor. The other areas of the first floor addition and main building are being replaced by another project. Langan also obtained four samples of dust to test for possible asbestos contamination of the ceiling tiles/grid support system.



Langan Project No.: 140141601

PROJECT INFORMATION

Client Name:	Silver/Petrucelli & Associates 3190 Whitney Avenue Building 2 Hamden, Connecticut	Property Visit Date:	3 June 2016
Professional's project #:	140141601	Construction Dates:	Approximately 1904 and Renovated/ Addition in 1961
Consultant's Project Manager:	Matthew A. Myers	No. Buildings:	One
Phone No.:	203-562-5571	No. of Stories:	Three Story and Basement
Email:	mmyers@langan.com	Bldgs. Gross	62,000 Square
Property Address:	51 Hillside Avenue	Footage:	Feet
Property Town, State:	Naugatuck, Connecticut	Property Use:	Intermediate School

The following sections summarize Hazmat findings for the limited areas of the building surveyed.

2.0 ASBESTOS-CONTAINING MATERIALS (ACM)

Terminology

Suspect Asbestos-Containing Materials

Asbestos was used in certain types of construction and building materials. Until a material is examined by using polarized light microscopy (PLM) or a similar technique, the building material is considered as a suspect asbestos-containing material. A few examples of these materials include wall and ceiling plasters, sheetrock/taping compound, flooring materials, cove base and adhesives, ceiling panels, thermal system insulation, fireproofing insulation, roofing materials, adhesives, damp-proofing/waterproofing materials, caulking and glazing compounds, etc. Any suspect ACM and/or building material of unknown asbestos content should be assumed to be an asbestos containing material and handled and disposed of accordingly. Demolition, renovation, maintenance or daily activities should not disturb building materials that are found to contain asbestos, assumed to contain asbestos or that have not been tested for possible asbestos content.



51 Hillside Avenue Naugatuck, Connecticut Langan Project No.: 140141601

Asbestos-Containing Material

A material with an asbestos concentration greater than one percent by weight is considered as ACM by the United States Environmental Protection Agency (USEPA). Thus, a material which contains asbestos in concentrations greater than 1% by weight is considered as "positive" while materials that do not contain asbestos or asbestos is detected in concentrations less than one percent by weight are considered as "negative".

Regulatory Guidelines and Requirements

Federal

In accordance with the Clean Air Act (CAA), the U.S. Environmental Protection Agency (EPA) established National Emission Standards for hazardous Air Pollutants (NESHAP) to protect the public from exposure to airborne pollutants. Asbestos was one of the air pollutants, which was addressed under the NESHAP 40 CFR Part 61. The purpose of asbestos NESHAP regulations is to protect the public health by minimizing the release of asbestos when facilities, which contain ACM, are being renovated or demolished. EPA is responsible for enforcing regulations related to asbestos during renovation and demolition activities, however, the CAA allows the EPA to delegate this authority to State and Local Agencies. Even after EPA delegates responsibility to a state or Local agency, EPA retains the authority to oversee agency performance and to enforce NESHAP regulations as appropriate. OSHA considers any amount of asbestos to be regulated.

State

Asbestos in Connecticut is regulated by the State of Connecticut Department of Public Health (CTDPH), under Standards for Asbestos Abatement – Section 19a-333a-1 through 16 of Regulations of Connecticut State Agencies (RCSA) and Licensing and Training Requirements for Persons Engaged in Asbestos Abatement and Asbestos Consulting Services – Section 20-440-1 through 9 and Section 20-441 of RCSA.

Limited Asbestos Survey

During this limited survey, suspect ACM were separated into three USEPA categories. These categories are: thermal system insulation (TSI), surfacing materials and miscellaneous materials. State of Connecticut DPH licensed asbestos inspector Matthew Myers (#000041) performed the survey.



ACM Results Summary

Langan Project No.: 140141601

A total of ten additional bulk samples were collected and were analyzed for possible asbestos content. Detailed bulk sampling results are included as Tables 1 and 2 below. A total of four microvacuum samples were collected to analyze dust containing possible asbestos fibers (contamination) on the ceiling tile/grid support systems. Analytical asbestos laboratory data can be found in Appendix A.

Bulk samples of the suspect asbestos-containing materials (ACM) were analyzed using the Polarized Light Microscopy (PLM) analytical methodology in accordance with EPA Protocol 600/R-93/116. Dust samples were collected and analyzed using ASTM D 5755. The samples were analyzed by EMSL of Cinnaminson, New Jersey. EMSL is accredited by the National Voluntary Laboratory Program (NVLAP) and American Industrial Hygiene Association (AIHA).

Utilizing the USEPA protocols and criteria, the following materials were determined to be **ACM**:

Table 1 – Asbestos Containing Materials

Material	Location	% Asbestos and Sample ID	Estimated Quantity of ACM
Light Backing Insulation – Miscellaneous Material	Toilet Room 31C and Limited Locations in Building Addition	ACM 20% Chrysotile 060301	Approximately 10 Square Feet
Pipe/Fitting/Roof Drain Insulation – Thermal System Insulation	Above Ceilings Throughout Second and Third Floors Main Building and Music Areas and Adjacent Corridors in Building Addition	Assumed	Approximately 175 Square Feet



Langan Project No.: 140141601

Utilizing the USEPA protocol and criteria, the following materials were determined to be **non-ACM**:

Table 2 – Non-Asbestos Containing Materials

Material	Location	Sample ID
	Main Building (second and	060302
Ceiling Tiles (mix of grey and pink – six	third floors) and Addition	060303
different types sampled) – Miscellaneous	Corridors (see chain of	060304
Material	custody for location of	060305 A, B
Material	samples)	060306 A, B
	σαιτιρίοσ <i>)</i>	060307 A, B

Ceiling Tile/Grid Support System Microvacuum Dust Samples

Four samples were obtained (three from the main building - second and third floors - corridor, stairwell and a classroom and one from the building addition corridor adjacent music areas). Analysis indicated all four samples had a high dust loading and a loading of 1,000 structures/cm² could not be obtained for each sample. The analysis indicates there are no asbestos structures that were noted in the three main school dust samples. However, the building addition corridor sample did have amosite asbestos fibers detected.

3.0 CONCLUSIONS AND RECOMMENDATIONS

Langan provides the following conclusions and recommendations, based on the findings of this limited additional Hazardous Building Materials Survey:

Asbestos was not identified in the additional ceiling tiles bulk sampled (six different types/ages sampled) throughout the main building second and third floors, and building addition corridor.

Asbestos containing light backing insulation was found in the areas of work and they should be removed as part of the project by a licensed asbestos abatement contractor (will be disturbed by ceiling replacement). Assumed asbestos containing pipe/fitting/roof drain insulation was found above the ceilings throughout and they could be removed as part of the project by a licensed asbestos abatement contractor. The pipe/fitting/roof drain insulation, if intact, and will not be disturbed by the ceiling replacement, are not required to be removed.

The limited dust sampling analysis found no asbestos fibers detected in the three main building samples, however, amosite asbestos fiber contamination in the building addition corridor ceilings (tiles/grid support system) was detected. In the opinion of Langan, the building



Langan Project No.: 140141601

addition corridor ceilings should be removed as an asbestos abatement project (containment, air sampling, etc.), including pre-cleaning and decontamination of the areas/materials found in the corridors (below and above suspended ceiling - lighting, ducts, mechanical and electrical, grids (if not being removed and replaced), decking above, etc.). It is not known if any surfaces below the ceilings are contaminated with asbestos containing fibers.

4.0 **LIMITATIONS**

The conclusions and recommendations presented in this report are professional opinions based solely upon Langan's visual observations, laboratory test data, and current regulatory requirements. These conclusions and recommendations are intended exclusively for the purpose stated herein, at the site indicated, and for the project indicated.

It is important to recognize that even the most comprehensive scope of services may fail to detect all hazmat that may be associated with the property. Therefore, Langan cannot act as insurers and cannot "certify" that all hazmat associated with the property have been identified, and no expressed or implied representation or warranty is included or intended in our report, except that our services were performed, within the limits prescribed by our client, with the customary thoroughness and competence of our profession.

Any suspect material that is not listed in this report must be assumed as ACM until confirmed otherwise via laboratory testing.

PCB sampling was not included as part of this survey.

\\langan.com\\data\\NHV\\data6\140141601\\Engineering Data\\Environmental\\Naugatuck Schools\\Hillside\\Hillside Pre-Renovation HAZMAT Additional Sampling and Dust Report.doc



Appendix A

Analytical Laboratory Results and Chain of Custody – Asbestos Samples



Asbestos Bulk Building Material Chain of Custody EMSL Order Number (Lab Use Only):

EMSL ANALYTICAL, INC. 200 ROUTE 130 NORTH CINNAMINSON, NJ 08077

PHONE: (800) 220-3675 FAX: (856) 786-5974

Company: L	angan CT		EMSL-Bill to: ☐ Same ☐ Different		
	ong Wharf Drive	Lang:	If Bill to is Different note instructions in Comments** an InvoiceCapture@ConcurSolutions.com arty Billing requires written authorization from third party		
City: New Have	en State/Province: CT		Zip/Postal Code: 06511 Country: USA		
Report To (Nan	ne): Matthew Myers	Telephone #:	203.562.5771		
	MMyers@Langan.com	Fax #: 203.7	89.6142 Purchase Order:		
Project Name/N U.S. State Sam	lumber: /40/41601 Willside ples Taken: CT School	Please Provid	le Results:		
o.o. Otate Sam	Turnaround Time ([CT Samples: [☐ Commercial/Taxable ☐ Residential/Tax Exem		
3 Hour	☐ 6 Hour ☐ 24 Hour ☐ 248 Hou	r 72 Hour	96 Hour 1 1 Week 1 2 Week		
an authoriz	nrough 6 nr, please call ahead to schedule."There is a pation form for this service. Analysis completed in according	premium charge for 3 H rdance with EMSL's Te	dour TEM AHERA or EPA Level II TAT. You will be asked to signs and Conditions located in the Analytical Price Guide.		
	PLM - Bulk (reporting limit)		TEM - Bulk		
PLM EPA 600	0/R-93/116 (<1%)		B - EPA 600/R-93/116 Section 2.5.5.1		
	100 (<0.25%) 1000 (<0.1%) If <3%	☐ NY ELAP Method 198.4 (TEM)☐ Chatfield Protocol (semi-quantitative)			
	avimetric ☐ 400 (<0.25%) ☐ 1000 (<0.1%)	☐ TEM % by Mass – EPA 600/R-93/116 Section 2.5.5.2			
☐ NIOSH 9002		TEM Qualitative via Filtration Prep Technique			
☐ NY ELAP Me	thod 198.1 (friable in NY)	☐ TEM Qualitative via Drop Mount Prep Technique			
	thod 198.6 NOB (non-friable-NY)		Other		
☐ OSHA ID-191☐ Standard Add					
- 50					
Check For Po	sitive Stop - Clearly Identify Homogenous	Group Date Sar	mpled: 6/3/16		
Samplers Name:	mets myers	Samplers Sign	ignature: Multo UL		
Sample # HA #	Sample Location		Material Description		
10201	Noom 31A Toilet		Light Back. my Pay		
60302	Addition Couridou		2x4 Ceiles tile Gray		
6303	Roum 38		2x4 cong tile - Pinh		
1000	Entrance - 31A - us	ic	2x4 (eily till-Gray		
0305A	300 Flo middle Staw	۷	2x4 Certy tile Groce BA		
<u> </u>	I stains by on 3C				
OCA	3rd Flo Condor near	mobile stors	, Ju		
B	R== 35B		1		
07A	3rd Floor Coundar (34)		Auc		
LB	T T	delle stairs	4		
ent Sample # (s):		Total # of Samples: /O		
linquished (Clie	nt): Date	: 6/6	Time: 570-		
inquisited (Cite					
ceived (Lab): mments/Specia	Date	8	Time:		



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077 Tel/Fax: (800) 220-3675 / (856) 786-5974 http://www.EMSL.com / cinnasblab@EMSL.com

EMSL Order: 041615069 Customer ID: LANG78

Customer PO: Project ID:

Attention: Matthew Myers

Langan Engineering & Environ. Services

Long Wharf Maritime Center 555 Long Wharf Drive New Haven, CT 06511

Project: 140141601 Hillside School

Phone: (203) 562-5771

Fax: (203) 789-6142

Received Date: 06/07/2016 9:45 AM

Analysis Date: 06/08/2016

Collected Date:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbes	<u>itos</u>	<u>Asbestos</u>
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
060301 041615069-0001	Room 31A Toilet - Light backing Paper	White Fibrous Homogeneous		80% Non-fibrous (Other)	20% Chrysotile
060302 041615069-0002	Addition - 2X4 Ceiling tile gray	Gray Fibrous Homogeneous	50% Cellulose 30% Min. Wool	20% Non-fibrous (Other)	None Detected
060303	Room 38 - 2X4 tile pink	Pink Fibrous Homogeneous	45% Cellulose 35% Min, Wool	20% Non-fibrous (Other)	None Detected
060304 041615069-0004	Entrance-31A - 2X4 ceiling tile gray	Gray Fibrous Homogeneous	55% Cellulose 25% Min. Wool	20% Non-fibrous (Other)	None Detected
060305A 041615069-0005	3rd Floor Middle Stairs - 2X4 ceiling tile gray April	Gray Fibrous Homogeneous	50% Cellulose 25% Min. Wool	25% Non-fibrous (Other)	None Detected
060305B 041615069-0006	Downstairs by room 36 - 2X4 ceiling tile gray	Gray Fibrous Homogeneous	50% Cellulose 35% Min. Wool	15% Non-fibrous (Other)	None Detected
060306A 041615069-0007	Room 35 B - 2X4 ceiling tile gray July	Gray Fibrous Homogeneous	55% Cellulose 30% Min. Wool	15% Non-fibrous (Other)	None Detected
060306B 041615069-0008	3rd Floor Corridor (34) - 2X4 ceiling tile gray	Gray Fibrous Homogeneous	50% Cellulose 35% Min. Wool	15% Non-fibrous (Other)	None Detected
060307A 041615069-0009	Near middle Stairs - 2X4 ceiling tile gray August	Gray Fibrous Homogeneous	50% Cellulose 30% Min. Wool	20% Non-fibrous (Other)	None Detected
060307B 041615069-0010	2X4 ceiling tile gray	Gray Fibrous Homogeneous	50% Cellulose 30% Min. Wool	20% Non-fibrous (Other)	None Detected

Analyst(s)

Amy Johnson (3) Kelly Mulholland (7) Benjamin Ellis, Laboratory Manager or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

OrderID: 041615093



Asbestos Chain of Custody EMSL Order Number (Lab Use Only):

04,615093

EMSL ANALYTICAL, INC. 200 ROUTE 130 NORTH CINNAMINSON, NJ 08077

PHONE: (856)858-4800

ENISE AUTALT TICAL, INC.							AX: (856)8		
Street: 555 Long Whorf Price				Langan Itali Third Party L	MSL- ill to is E	Bill to: Sar	ne X [Different Comments**	utions .c
City: News Ke	State/Province: CT			Zip/Postal Code	e: 64	6511			cA.
Report To (Name): Ma Thew Myors			Fax #: 203			1 000	y. 64.	741	
Telephone #:		-	(74) - 1	Email Address:			lan		- 144
Project Name/Numb			-			w			
Please Provide Res	suits: 🗌 Fax	X Ema	il Purchase Orde	r:		S. State Samp	oles Tal	- Nont	T
		Turr	naround Time (TAT)		e Che	ck	neo rui	ion.	
3 Hour	6 Hour	24 Hour	48 Hour	72 Hour		OR Hour IV	1 Wee	k 🔲	2 Week
an authorization	in 6 hr, please call al form for this service.	head to sci Analysis	hedule. There is a premi	um charge for 3 Hour 1	TEM AH	IERA or EPA Lev	el II TAT.	You will be	asked to sign
an authorization form for this service. Analysis completed in accordance PCM - Air				.5hr TAT (AHERA on	ılv)	TEM- Dust	uie Anai	yucai Price G	suide.
☐ NIOSH 7400 ☐ AHERA 40 CF					-	- ASTM	1 D 5755		
☐ w/ OSHA 8hr. TWA ☐ NIOSH 7402			R, Part 763 Microvac - ASTM D 5755 Wipe - ASTM D6480						
PLM - Bulk (reporting limit) EPA Level il			☐ Carpet Sonication (EPA 600/J-93/167)						
D DI M DD AGAIN AND AND AND AND AND AND AND AND AND AN			☐ ISO 10312	B Garber Controller (Er A 600/s			110-30/10/1		
			TEM - Bulk	☐ PLM CARB 435 - A (0.25% sensitiv			sonsitivity)		
			☐ TEM EPA NOB ☐ PLM CARB 435 - B (0.1% sensiti						
· —			☐ NYS NOB 198.4 (non-friable-NY) ☐ TEM CARB 435 - B (0.1% sens						
Point Count w/Gravimetric			` ,	☐ TEM CARB 435 - C (0.01% sensitivity)					
			lysis-EPA 600 sec.	2.5	☐ EPA Protocol (Semi-Quantitative)				
☐ NYS 198.1 (friable)	e in NY)		TEM - Water: EPA			☐ EPA Protocol (Quantitative)			, II
☐ NYS 198.6 NOB (non-friable-NY)		Fibers >10µm	Waste Drinkir	ng	Other:			
☐ NIOSH 9002 (<1%	6)		All Fiber Sizes			П			
	☐ Chec	k For P	ositive Stop - Cle			nous Groun			
Samplers Name:	matt My			Samplers Signa		Tetto	No		
Sample #						Volume/Are			e/Time
Cumple #	Sample Description					HA#(Bu	lk)	San	npled
060301	3rd Fle Councles					ZLPM	1000	6/3/1	5:40-5
060303	3rd Pla	Sta	ruell (30	-)		•	1	信号	2:45-5
060304	Class		26	200		1	+		6:20 6
0008306	Blank		Dontandyz	e w/o perm	1851	on from c	hent		1
060307	Addition		Corridor			2 LPM	1002	6/3/16	
								9	

Client Sample # (s): Relinquished (Client):

Date:

Total # of Samples:

Received (Lab): Comments/Special Instructions:

Time:

Controlled Document - Asbestos COC - R2 - 1/12/2010

Page 1 of_ pages



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077 Phone/Fax: (800) 220-3675 / (856) 786-5974

http://www.EMSL.com cinnasblab@EMSL.com EMSL Order:

041615093

CustomerID:

LANG78

CustomerPO: ProjectID:

Attn: Matthew Myers

Langan Engineering & Environ. Services **Long Wharf Maritime Center** 555 Long Wharf Drive

New Haven, CT 06511

Phone:

(203) 562-5771

Fax: Received: (203) 789-6142

Analysis Date:

06/07/16 9:45 AM

6/13/2016

Collected:

6/3/2016

Project: 140141601 / Hillside School

Test Report: Asbestos Analysis via Transmission Electron Microscopy ASTM Method D5755

SAMPLE ID	AREA SAMPLED (cm²)	ASBESTOS TYPE	ASBESTOS STRUCTURES	Sensitivity (str/cm²)	CONCENTRATION (str/cm²)	COMMENTS
060301 041615093-0001	100	None Detected	<3	21900	<65700	Due to excessive particulate the analytical sensitivity of 1000 str/cm² as required by the method was not reached
060303 041615093-0002	100	None Detected	<3	21900	<65700	Due to excessive particulate the analytical sensitivity of 1000 str/cm² as required by the method was not reached
060304 041615093-0003	100	None Detected	<3	11000	<33000	Due to excessive particulate the analytical sensitivity of 1000 str/cm² as required by the method was not reached
060307 041615093-0005	100	Amosite	<3	21900	<65700	Due to excessive particulate the analytical sensitivity of 1000 str/cm² as required by the method was not reached

Analyst(s)

Wayne Froehlich (4)

Benjamin Ellis, Laboratory Manager or other approved signatory

The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. Samples received in good condition unless otherwise

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ

Initial report from 06/13/2016 21:14:17

Appendix B

Langan Certifications and Accreditations

TOMPLOYER'S COPY

STATE OF CONNECTICUT DEPARTMENT OF PUBLIC HEALTH

NAME MATTHEW A. MYERS

VALIDATION NO 03-436509

CERTIFICATENO

CURREST THROUGH 04/30/17

000191 PROFESSION

LEAD INSPECTOR RISK ASSESSOR

PARLOYER'S COPY

STATE OF CONNECTICUT DEPARTMENT OF PUBLIC HEALTH NAME

MATTHEW A MYERS

VALIDATION NO 03-436510

CERTIFICATE NO CURRENT THROUGH 000041

04/30/17

PROFESSION

ASBESTOS CONSULTANT-INSP/MGMT PLANNER

J hotos

HMPLOYER'S COPY

STATE OF CONNECTICUT DEPARTMENT OF PUBLIC HEALTH

NAME

MATTHEW A. MYERS

VALIDATION NO 03-437365

CERTIFICATE NO 000077

CURRENT THROUGH 04/30/17

PROPESSION

ASBESTOS CONSULTANT PROJECT MONITOR

RMPLOYER'S COPY

STATE OF CONNECTICUT DEPARTMENT OF PUBLIC HEALTH

MATTHEW A. MYERS

CHRTIFICATE NO.

CURRENT TIROUGH

VALIDATION NO 03-437366

000058

04/30/17

PROFESSION

ASBESTOS CONSULTANT-PROJECT DESIGNER



Minimum Rates and Classifications for Building Construction

ID#: B 22300

Connecticut Department of Labor Wage and Workplace Standards Division

By virtue of the authority vested in the Labor Commissioner under provisions of Section 31-53 of the General Statutes of Connecticut, as amended, the following are declared to be the prevailing rates and welfare payments and will apply only where the contract is advertised for bid within 20 days of the date on which the rates are established. Any contractor or subcontractor not obligated by agreement to pay to the welfare and pension fund shall pay this amount to each employee as part of his/her hourly wages.

Project Number: Project Town: Naugatuck

State#: FAP#:

CLASSIFICATION	Hourly Rate	Benefits
1a) Asbestos Worker/Insulator (Includes application of insulating materials, protective coverings, coatings, & finishes to all types of mechanical systems; application of firestopping material for wall openings & penetrations in walls, floors, ceilings	35.75	28.82
1b) Asbestos/Toxic Waste Removal Laborers: Asbestos removal and encapsulation (except its removal from mechanical systems which are not to be scrapped), toxic waste removers, blasters.**See Laborers Group 7**		
1c) Asbestos Worker/Heat and Frost Insulator	37.15	27.56

2) Boilermaker	35.24	25.01
3a) Bricklayer, Cement Mason, Concrete Finisher (including caulking), Stone Masons	33.48	29.16 + a
3b) Tile Setter	34.30	24.15
3c) Terrazzo Mechanics and Marble Setters	31.69	22.35
3d) Tile, Marble & Terrazzo Finishers	26.43	20.59
3e) Plasterer	33.48	29.16

Project: District wide School Opgrades		
LABORERS		
4) Group 1: Laborers (common or general), acetylene burners, carpenter tenders, concrete specialists, wrecking laborers, fire watchers.	28.55	18.90 + a
4a) Group 2: Mortar mixers, plaster tender, power buggy operators, powdermen, fireproofer/mixer/nozzleman (Person running mixer and spraying fireproof only).	28.80	18.90 + a
4b) Group 3: Jackhammer operators/pavement breaker, mason tender (brick), mason tender (cement/concrete), forklift operators and forklift operators (masonry).	29.05	18.90 + a
4c) **Group 4: Pipelayers (Installation of water, storm drainage or sewage lines outside of the building line with P6, P7 license) (the pipelayer rate shall apply only to one or two employees of the total crew who primary task is to actually perform the mating of pipe sections) P6 and P7 rate is \$26.80.	28.80	18.90 + a
4d) Group 5: Air track operator, sand blaster and hydraulic drills.	29.30	18.90 + a

4e) Group 6: Blasters, nuclear and toxic waste removal.	31.55	18.90 + a
4f) Group 7: Asbestos/lead removal and encapsulation (except it's removal from mechanical systems which are not to be scrapped).	29.55	18.90 + a
4g) Group 8: Bottom men on open air caisson, cylindrical work and boring crew.	28.38	18.90 + a
4h) Group 9: Top men on open air caisson, cylindrical work and boring crew.	27.86	18.90 + a
4i) Group 10: Traffic Control Signalman	16.00	18.90 + a
5) Carpenter, Acoustical Ceiling Installation, Soft Floor/Carpet Laying, Metal Stud Installation, Form Work and Scaffold Building, Drywall Hanging, Modular-Furniture Systems Installers, Lathers, Piledrivers, Resilient Floor Layers.	31.45	23.54

5a) Millwrights	31.84	23.99
6) Electrical Worker (including low voltage wiring) (Trade License required: E1,2 L-5,6 C-5,6 T-1,2 L-1,2 V-1,2,7,8,9)	37.62	23.00 + 3% of gross wage
7a) Elevator Mechanic (Trade License required: R-1,2,5,6)	49.00	29.985+a+b
LINE CONSTRUCTION		
Groundman	24.99	6.25%+11.81
Linemen/Cable Splicer	45.43	6.25%+20.70

Project: District Wide School Upgrades		
8) Glazier (Trade License required: FG-1,2)	35.08	19.35 + a
9) Ironworker, Ornamental, Reinforcing, Structural, and Precast Concrete Erection	34.47	31.09 + a
OPERATORS		
Group 1: Crane handling or erecting structural steel or stone, hoisting engineer 2 drums or over, front end loader (7 cubic yards or over), work boat 26 ft. and over and Tunnel Boring Machines. (Trade License Required)	38.55	23.55 + a
Group 2: Cranes (100 ton rate capacity and over); Excavator over 2 cubic yards; Piledriver (\$3.00 premium when operator controls hammer); Bauer Drill/Caisson. (Trade License Required)	38.23	23.55 + a
Group 3: Excavator; Backhoe/Excavator under 2 cubic yards; Cranes (under 100 ton rated capacity), Grader/Blade; Master Mechanic; Hoisting Engineer (all types of equipment where a drum and cable are used to hoist or drag material regardless of motive power of operation), Rubber Tire Excavator (Drott-1085 or similar); Grader Operator; Bulldozer Fine Grade. (slopes, shaping, laser or GPS, etc.). (Trade License Required)	37.49	23.55 + a

Project: District Wide School Upgrades Group 4: Trenching Machines; Lighter Derrick; Concrete Finishing 37.10 23.55 + aMachine; CMI Machine or Similar; Koehring Loader (Skooper). Group 5: Specialty Railroad Equipment; Asphalt Paver; Asphalt 36.51 23.55 + aReclaiming Machine; Line Grinder; Concrete Pumps; Drills with Self Contained Power Units; Boring Machine; Post Hole Digger; Auger; Pounder; Well Digger; Milling Machine (over 24" Mandrell) Group 5 continued: Side Boom; Combination Hoe and Loader; Directional 36.51 23.55 + aDriller; Pile Testing Machine. Group 6: Front End Loader (3 up to 7 cubic yards); Bulldozer (rough 36.20 23.55 + agrade dozer). Group 7: Asphalt roller, concrete saws and cutters (ride on types), 35.86 23.55 + avermeer concrete cutter, Stump Grinder; Scraper; Snooper; Skidder; Milling Machine (24" and under Mandrell). Group 8: Mechanic, grease truck operator, hydroblaster; barrier mover; 35.46 23.55 + apower stone spreader; welding; work boat under 26 ft.; transfer machine.

Project: District Wide School Upgrades		
Group 9: Front end loader (under 3 cubic yards), skid steer loader regardless of attachments, (Bobcat or Similar): forklift, power chipper; landscape equipment (including Hydroseeder).	35.03	23.55 + a
Group 10: Vibratory hammer; ice machine; diesel and air, hammer, etc.	32.99	23.55 + a
Group 11: Conveyor, earth roller, power pavement breaker (whiphammer), robot demolition equipment.	32.99	23.55 + a
Group 12: Wellpoint operator.	32.93	23.55 + a
Group 13: Compressor battery operator.	32.35	23.55 + a
Group 14: Elevator operator; tow motor operator (solid tire no rough terrain).	31.21	23.55 + a

Group 15: Generator Operator; Compressor Operator; Pump Operator; Welding Machine Operator; Heater Operator.	30.80	23.55 + a
Group 16: Maintenance Engineer/Oiler.	30.15	23.55 + a
Group 17: Portable asphalt plant operator; portable crusher plant operator; portable concrete plant operator.	34.46	23.55 + a
Group 18: Power safety boat; vacuum truck; zim mixer; sweeper; (Minimum for any job requiring a CDL license).	32.04	23.55 + a
PAINTERS (Including Drywall Finishing)		
10a) Brush and Roller	31.52	19.35

Project: District Wide School Upgrades		
10b) Taping Only/Drywall Finishing	32.27	19.35
10c) Paperhanger and Red Label	32.02	19.35
10e) Blast and Spray	34.52	19.35
11) Plumber (excluding HVAC pipe installation) (Trade License required: P-1,2,6,7,8,9 J-1,2,3,4 SP-1,2)	40.62	28.91
12) Well Digger, Pile Testing Machine	33.01	19.40 + a
Roofer: Cole Tar Pitch	39.00	14.75 + a

37.50	14.75 + a
35.74	33.22
40.62	28.91
28.83	21.39 + a
28.93	21.39 + a
	35.74 40.62

Project: District Wide School Upgrades		
17c) 3 Axle Ready Mix	28.98	21.39 + a
17d) 4 Axle, Heavy Duty Trailer up to 40 tons	29.03	21.39 + a
17e) 4 Axle Ready Mix	29.08	21.39 + a
17f) Heavy Duty Trailer (40 Tons and Over)	29.28	21.39 + a
17g) Specialized Earth Moving Equipment (Other Than Conventional Type on-the-Road Trucks and Semi-Trailers, Including Euclids)	29.08	21.39 + a
18) Sprinkler Fitter (Trade License required: F-1,2,3,4)	41.37	20.77 + a

Project: District Wide School Upgrades		
19) Theatrical Stage Journeyman	25.76	7.34

Welders: Rate for craft to which welding is incidental.

*Note: Hazardous waste removal work receives additional \$1.25 per hour for truck drivers.

**Note: Hazardous waste premium \$3.00 per hour over classified rate

ALL Cranes: When crane operator is operating equipment that requires a fully licensed crane operator to operate he receives an extra \$3.00 premium in addition to the hourly wage rate and benefit contributions:

- 1) Crane handling or erecting structural steel or stone; hoisting engineer (2 drums or over)
- 2) Cranes (100 ton rate capacity and over) Bauer Drill/Caisson
- 3) Cranes (under 100 ton rated capacity)

Crane with 150 ft. boom (including jib) - \$1.50 extra

Crane with 200 ft. boom (including jib) - \$2.50 extra

Crane with 250 ft. boom (including jib) - \$5.00 extra

Crane with 300 ft. boom (including jib) - \$7.00 extra

Crane with 400 ft. boom (including jib) - \$10.00 extra

All classifications that indicate a percentage of the fringe benefits must be calculated at the percentage rate times the "base hourly rate".

Apprentices duly registered under the Commissioner of Labor's regulations on "Work Training Standards for Apprenticeship and Training Programs" Section 31-51-d-1 to 12, are allowed to be paid the appropriate percentage of the prevailing journeymen hourly base and the full fringe benefit rate, providing the work site ratio shall not be less than one full-time journeyperson instructing and supervising the work of each apprentice in a specific trade.

The Prevailing wage rates applicable to this project are subject to annual adjustments each July 1st for the duration of the project.

Each contractor shall pay the annual adjusted prevailing wage rate that is in effect each July 1st, as posted by the Department of Labor.

It is the contractor's responsibility to obtain the annual adjusted prevailing wage rate increases directly from the Department of Labor's website.

The annual adjustments will be posted on the Department of Labor's Web page: www.ct.gov/dol. For those without internet access, please contact the division listed below.

The Department of Labor will continue to issue the initial prevailing wage rate schedule to the Contracting Agency for the project.

All subsequent annual adjustments will be posted on our Web Site for contractor access.

Contracting Agencies are under no obligation pursuant to State labor law to pay any increase due to the annual adjustment provision.

Effective October 1, 2005 - Public Act 05-50: any person performing the work of any mechanic, laborer, or worker shall be paid prevailing wage

All Person who perform work ON SITE must be paid prevailing wage for the appropriate mechanic, laborer, or worker classification.

All certified payrolls must list the hours worked and wages paid to All Persons who perform work ON SITE regardless of their ownership i.e.: (Owners, Corporate Officers, LLC Members, Independent Contractors, et. al)

Reporting and payment of wages is required regardless of any contractual relationship alleged to exist between the contractor and such person.

~~Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clause (29 CFR 5.5 (a) (1) (ii)).

Please direct any questions which you may have pertaining to classification of work and payment of prevailing wages to the Wage and Workplace Standards Division, telephone (860)263-6790.