

From: [Gutshall, Andrew J \(Allentown\) USA](#)
To: [Menghini, Michael](#)
Cc: [Louis Vittorio](#)
Subject: [External] Fwd: November 9, 2018 Rock Hill Quarry NOA Sample Results
Date: Thursday, December 6, 2018 7:01:18 PM
Attachments: [ATT00001.htm](#)
[4th quarter rock hill sampling.kmz](#)
[ATT00002.htm](#)
[ATT00003.htm](#)
[Hand Sample Photos.pdf](#)
[ATT00004.htm](#)
[EMSL Sample Results.pdf](#)
[ATT00005.htm](#)

***ATTENTION:** This email message is from an external sender. Do not open links or attachments from unknown sources. To report suspicious email, forward the message as an attachment to CWOPA_SPAM@pa.gov.*

Mike,

Please see email below from EarthRes. I am on vacation tomorrow but will be available on Monday to discuss if need be. Let me know about the proposed meeting on Friday, 12/14, as I believe that day is good for people on our team. The meeting can be held at our office in Allentown if you'd prefer.

I'm sending this email from my phone, so I do not have the full distribution list of your prior emails. Please forward this email to those folks.

Regards.

Andrew J. Gutshall, P.G.
Area Environmental Manager - ECPA & NJ

Sent from my iPhone

Begin forwarded message:

From: "Louis Vittorio" <lvittorio@earthres.com>
To: "Gutshall, Andrew J (Allentown) USA"
<Andrew.Gutshall@LehighHanson.com>
Subject: November 9, 2018 Rock Hill Quarry NOA Sample Results

Andrew:

EARTHRES collected one (1) composite sample from drill hole cuttings (Samples S-9 and S-10) and one (1) composite hand sample from a downgradient blast pile at the site on November 9, 2018. The drill hole and composite hand sample locations are shown on the attached KMZ file and map image.

The drill cutting locations were on the top bench in the area currently being developed. The hand sample composite was collected from the blast pile below the active drilling area, as the highwall face was not safely accessible. The blast pile was inspected and Two (2) hand samples with apparent mineralization (different from the parent rock) were collected. Pictures of the collected hand samples are attached, along with a picture of the blast pile area, where the sample was collected.

The samples were sent under chain of custody via overnight delivery to EMSL Laboratory in Cinnaaminson, NJ and were analyzed using Polarized Light Microscopy (PLM) via EPA 600/R-93/116 Method. The laboratory results determined the composite cuttings sample to be homogeneous and 100% non-fibrous asbestos. The composite hand sample collected was determined to be 99.75% non-fibrous and 0.25% fibrous actinolite asbestos. Follow-up analysis using Transmission Electron Microscopy (TEM) analysis of the composite hand sample determined the sample to contain 0.8% fibrous actinolite by weight. The laboratory results are attached.

Should you need anything else, please let me know.

Louis F. Vittorio, Jr., P.G. | Vice President

EARTHRES | *Engineering for SuccessSM*

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EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / cinnaslab@EMSL.com

EMSL Order: 041833717

Customer ID: ERG51

Customer PO:

Project ID:

Attention: Louis Vittorio
ERG (EARTHRES GROUP, INC.)
P.O. BOX 468
PIPERSVILLE, PA 18947

Phone: (215) 766-1211
Fax: (215) 766-1245
Received: 11/10/2018 10:30 AM
Analysis Date: 11/12/2018
Collected: 11/09/2018

Project: 061003.051

Test Report: Asbestos Analysis of Bulk Building Materials via EPA 600/R-93/116 Method using PLM and Milling Prep. Quantitation using 400 Point Count Procedure

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
Composite 1 041833717-0001	Composite Drill Cuttings Sample	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
Hand Sample 1 041833717-0002	Hand Sampled Rock from Blast Pile	Gray Non-Fibrous Homogeneous		99.75% Non-fibrous (Other)	0.25% Actinolite

Analyst(s)

Juli Patel (2)

Benjamin Ellis, Laboratory Manager
or other approved signatory

Disclaimer: Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. The limit of detection as stated in the method is 0.25%. EMSL Analytical Inc suggests that samples reported as <0.25% or none detected undergo additional analysis via TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval of EMSL Analytical Inc. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the United States Government. EMSL Analytical Inc., bears no responsibility for sample collection activities, analytical method limitations, or the accuracy of results when requested to separate layered samples. EMSL Analytical Inc., liability is limited to the cost of sample analysis. The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

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

Initial report from: 11/12/2018 14:05:16



EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone: (800) 220-3675
Fax: (856) 858-1292
Email: CinnAsblab@emsl.com

EMSL Order: 041833717
Customer ID: ERG51
Customer PO:
Project ID:

Attn: *Louis Vittorio*
ERG (EARTHRES GROUP, INC.)
P.O. BOX 468
PIPERSVILLE, PA, 18947

Phone: (215) 766-1211
Fax: (215) 766-1245
Collected: 11/09/2018
Received: 11/10/18 10:30

Project: **061003.051**

Analyzed: 11/30/18

SUMMARY REPORT :

Sample ID	Minerals Present	Results	Structures	Reporting Limit	Asbestos Weight	Comments
Hand Sample 1	Actinolite	Regulated Asbestos	37	0.1%	0.8%	
041833717-0002		Other Minerals	0		< 0.1%	
Hand Sample Rock from Blast Pile		Unknown	0		-	
		Total	37		0.8%	

S. BURANY

Analyst

Approved Signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL is not responsible for sample collection activities or analytical method limitations. Interpretation and use of results are the responsibility of the client. Regulated asbestos includes the 6 Federally regulated types: Chrysotile, Amosite, Crocidolite, Actinolite, Tremolite, Anthophyllite. Other minerals can include: Libby Amphibole, Erionite, and other Non-regulated minerals.

EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

041833717

PHONE:

FAX:

Company Name: EarthRes Group		EMSL Customer ID:	
Street: 6913 Old Easton Road		City: Pipersville	State/Province: PA
Zip/Postal Code: 18947	Country: USA	Telephone #: 2157661211	Fax #:
Report To (Name): Louis Vittorio		Please Provide Results: ☐ Fax ☒ Email	
Email Address: Lvittorio@earthres.com		Purchase Order:	
Project Name/Number: 061003.051		EMSL Project ID (Internal Use Only):	
U.S. State Samples Taken:		CT Samples: ☐ Commercial/Taxable ☐ Residential/Tax Exempt	
EMSL-Bill to: ☐ Same ☒ Different - If Bill to is Different note instructions in Comments** Third Party Billing requires written authorization from third party			
Turnaround Time (TAT) Options* - Please Check			
☐ 3 Hour	☐ 6 Hour	☒ 24 Hour	☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week
*For TEM Air 3 hr through 6 hr, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.			
PCM - Air ☐ Check if samples are from NY ☐ NIOSH 7400 ☐ w/ OSHA 8hr. TWA PLM - Bulk (reporting limit) ☐ PLM EPA 600/R-93/116 (<1%) ☐ PLM EPA NOB (<1%) Point Count ☐ 400 (<0.25%) ☐ 1000 (<0.1%) Point Count w/ Gravimetric ☐ 400 (<0.25%) ☐ 1000 (<0.1%) ☐ NYS 198.1 (friable in NY) ☐ NYS 198.6 NOB (non-friable-NY) ☐ NYS 198.8 SOF-V ☐ NIOSH 9002 (<1%)		TEM - Air ☐ 4-4.5hr TAT (AHERA only) ☐ AHERA 40 CFR, Part 763 ☐ NIOSH 7402 ☐ EPA Level II ☐ ISO 10312 TEM - Bulk ☐ TEM EPA NOB ☐ NYS NOB 198.4 (non-friable-NY) ☐ Chatfield SOP ☐ TEM Mass Analysis-EPA 600 sec. 2.5 TEM - Water: EPA 100.2 Fibers >10µm ☐ Waste ☐ Drinking All Fiber Sizes ☐ Waste ☐ Drinking	
		TEM- Dust ☐ Microvac - ASTM D 5755 ☐ Wipe - ASTM D6480 ☐ Carpet Sonication (EPA 600/J-93/167) Soil/Rock/Vermiculite ☐ PLM EPA 600/R-93/116 with milling prep (<1%) ☒ PLM EPA 600/R-93/116 with milling prep (<0.25%) ☐ TEM EPA 600/R-93/116 with milling prep (<0.1%) ☐ TEM Qualitative via Filtration Prep ☐ TEM Qualitative via Drop Mount Prep ☐ Cincinnati Method EPA 600/R-04/004 - PLM/TEM (BC only) Other: ☒ PLM Carb 435 Level B Reporting Limit (<0.1%) (See Order #041817020)	
☐ Check For Positive Stop - Clearly Identify Homogenous Group		Filter Pore Size (Air Samples): ☐ 0.8µm ☐ 0.45µm	
Samplers Name: CJD		Samplers Signature:	

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
Composite 1	Composite Drill Cuttings Sample	1 gallon	11/9/18 1040
Hand Sample 1	Hand Sampled Rock from Blast Pile	Hand sample	11/9/18 1020

Client Sample # (s):	-	Total # of Samples:
Relinquished (Client):	Date:	Time:
Received (Lab): VG	Date: 11/10/18	Time: 10:30
Comments/Special Instructions:		
Bill to: Andrew J Gutshall, Area Environmental Manager -ECPA/NJ Company, Lehigh Hanson, Inc. Address 7660 Imperial Way Allentown, PA 18195 Office phone (610) 366-4819		

2VP









S-10
S-9
S-8
S-7
S-6
S-5
S-4
S-3
S-2
S-1
Hand Sample 1

246 ft