



Sent via Fed-Ex

Hanson Aggregates Pennsylvania LLC
7660 Imperial Way
Allentown, PA 18195-1040
Tel 610-366-4819
Fax 610-871-5994

August 6, 2018

Gary A. Latsha
Pennsylvania Department of Environmental Protection
Pottsville District Mining Office
5 West Laurel Boulevard
Pottsville, PA 17901-2454

**Re: 2nd Quarter 2018 NOA Monitoring Report
SMP No. 7974SM1
East Rockhill Township
Bucks County, Pennsylvania**

Mr. Latsha:

Hanson Aggregates Pennsylvania LLC (Hanson) is submitting the attached 2nd Quarter 2018 Naturally Occurring Asbestos (NOA) Monitoring Report to the Pottsville District Mining Office. Both field inspection and laboratory analysis have determined NOA not to be present within the current mining area.

Please feel free to contact me at (610) 366-4819 should you wish to discuss the submission or require additional information.

Sincerely,

A handwritten signature in blue ink, appearing to read "AJG", with a long horizontal flourish extending to the right.

Andrew J. Gutshall, P.G.
Area Environmental Manager

encl: EarthRes July 27, 2018 2nd Quarter 2018 NOA Monitoring Report

cc: Michael J. Menghini, PADEP (via electronic mail)
Michael Kutney, P.G., PADEP (via electronic mail)
Amiee Bollinger, PADEP (via electronic mail)
Mark E. Kendrick, Hanson – Allentown (via electronic mail)
Timothy J. Poppenberg, Hanson – Allentown (via electronic mail)
Nathan R. Kimball, Hanson – Allentown (via electronic mail)
Robin W. Markussen, Lehigh Hanson – Irving (via electronic mail)
Curt Mitchell, R.E. Pierson (via electronic mail)
Bill Bowling, R.E. Pierson (via electronic mail)
Environmental File

**EarthRes July 27, 2018
2nd Quarter 2018 NOA Monitoring Report**

July 27, 2018

Andrew J. Gutshall, P.G.
Environmental Manager
Hanson Aggregates Pennsylvania, LLC
7660 Imperial Way
Allentown, PA 18195

**SUBJECT: 2nd Quarter 2018 NOA Monitoring Report
Rock Hill Quarry Operation
SMP No. 7974SM1
East Rockhill Township, Bucks County
EarthRes Project No. 061003.051**

Dear Mr. Gutshall:

Pursuant to the site monitoring plan approved by the Pennsylvania Department of Environmental Protection (PA DEP), EarthRes Group, Inc. (EarthRes) is pleased to provide the following 2nd Quarter 2018 Monitoring Report for the Rock Hill Quarry

INTRODUCTION

Site work was in completed accordance with the Monitoring Plan prepared by Hanson Aggregates Pennsylvania, LLC (Hanson), as approved by PA DEP in their letter dated January 25, 2018. The ongoing work is being performed to assess the potential presence of naturally occurring asbestos (NOA) minerals in the areas to be mined. Prior site investigation and sampling detailed in our report of January 18, 2018 (1st Quarter 2018), did not indicate the presence of NOA in the proposed mining area.

The current monitoring and sampling effort included site observation, collection and analysis of rock and rock cuttings in the active southeast quarry development area. The work was performed onsite by EarthRes personnel on June 4, 2018, under the supervision of a Pennsylvania licensed Professional Geologist (P.G.). A site figure showing the quarry and sample locations is included in Appendix A.

SITE SPECIFIC INVESTIGATION

Per the NOA Monitoring Plan, a single active bench (face) area was being prepared for drilling and subsequent blasting at the time of sampling. One (1) composite drill-cutting sample was collected

from two (2) drill holes on the active bench. The corresponding sampling locations are shown on the attached Figure in Appendix A. The composite samples were collected using a sterile plastic scoop that was used to mix and collect the drill cuttings. One (1)-gallon Ziplock® bags were filled with approximately 0.5 gallons of drill cuttings from each borehole. The two drill cutting samples were then combined into a single one-gallon Ziplock® bag evenly and mixed.

An outcrop hand sample of observed mineral veining from the bench face was collected while onsite. The hand sample was compared to previously collected samples, and was found to be similar and from the same location that was sampled and reported as non-detect for NOA in our report of January 18, 2018. The sample location is shown on the attached Figure in Appendix A. Pictures of the highwall, specific sampling locations and the collected sample are provided on the photographs in Appendix B.

The composite sample was shipped via FedEx priority overnight to EMSL Laboratory in Cinnaminson, NJ using standard chain-of-custody procedures. The sample was analyzed using Polarized Light Microscopy (PLM) via EPA 600/R-93/116 Method with preparation using the CARB 435 Method.

SAMPLE RESULTS

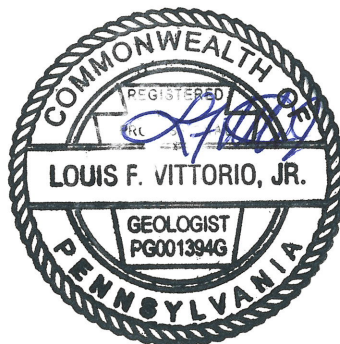
The laboratory testing results determined that the composite drill cutting sample was homogeneous, grey and 100% non-fibrous. Asbestos was not detected in the sample at the lowest PLM CARB 435 detection limit of 0.1%. The laboratory report is in Appendix C.

Please feel free to contact me at (215) 766-1211 should you have any questions or require any additional information.

Sincerely,
EarthRes Group, Inc.



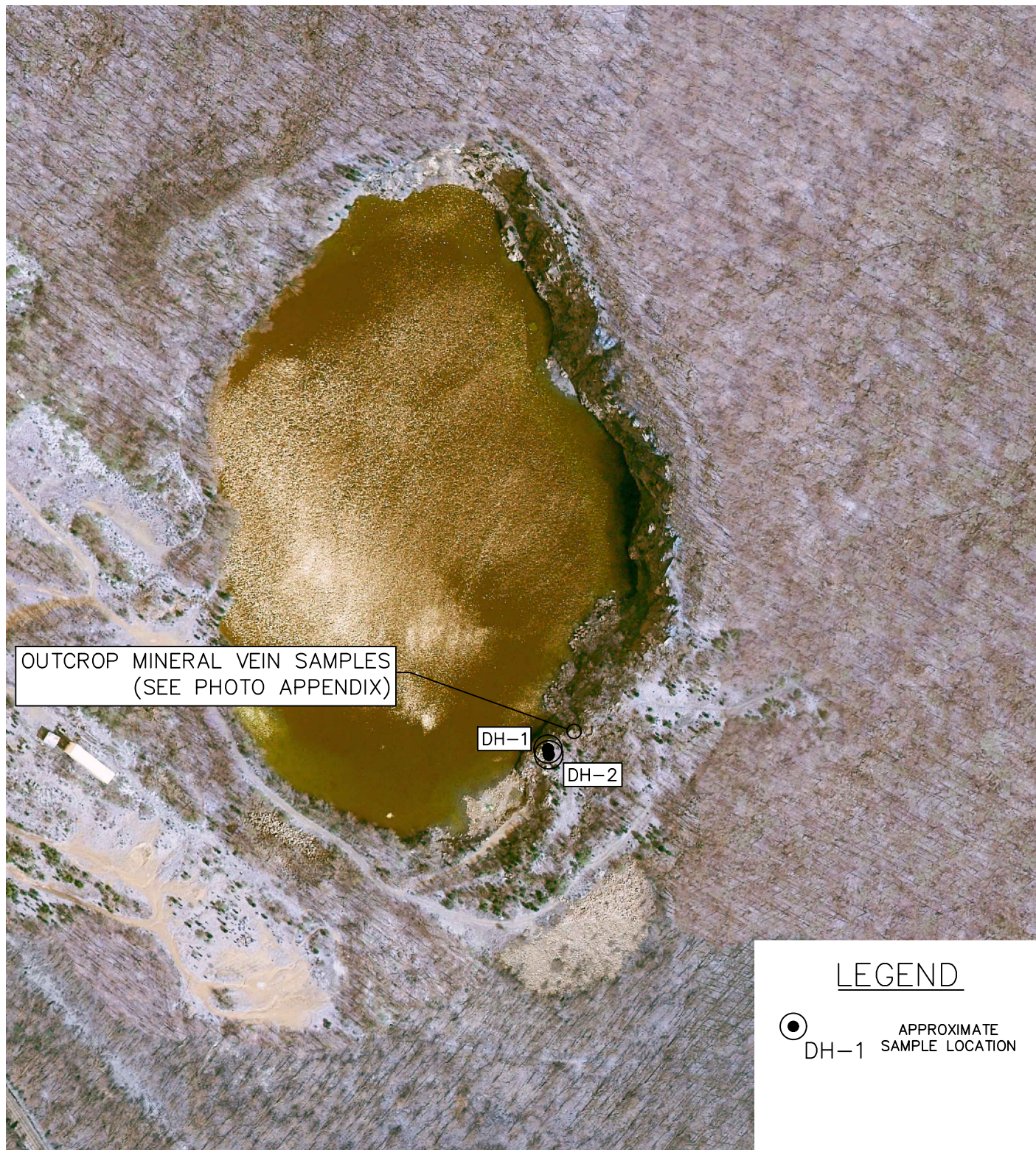
Louis F. Vittorio, Jr., P.G.
Vice President



- Appendices:** A – Figure 1
B – Site and Sample Photographs
C – Laboratory Analytical Results

APPENDIX A

FIGURE 1



LEGEND


 DH-1 APPROXIMATE
SAMPLE LOCATION

IMAGE SOURCE: PASDA AERIAL IMAGERY SERVICE (2015)



6912 Old Easton Road
Pipersville, PA 18947 USA

8000 Combs Farm Drive
Morgantown, WV 26508

www.earthres.com

PA office 215.766.1211
WV office 304.212.6866
toll free 800.264.4553

DRAWN BY:
JPS

CHECKED BY:
LFV

DATE:
6/20/2018

PROJECT NO:
061003.051

DRAWING SCALE:
1" = 300'



FIGURE 1 SAMPLE LOCATION MAP

ROCK HILL QUARRY
 HANSON AGGREGATES PENNSYLVANIA, LLC
 EAST ROCKHILL TOWNSHIP
 BUCKS COUNTY, PENNSYLVANIA

APPENDIX B

SITE & SAMPLING PHOTOS



Photo 1: Vein exposed in active face.



Photo 2: DH-1 drill cuttings and sample location.



Photo 3: DH-2 drill cuttings and sample location.

APPENDIX C

LABORATORY RESULTS



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: 041817020

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: 06/05/2018 9:20 AM
Analysis Date: 06/19/2018
Collected: 06/04/2018

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 041817020-0001	Drill Cuttings	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)

Samantha Rundstorm-Cruz
(1)

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: 06/19/2018 19:22:38

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

041817020

RECEIVED
EMSL
CINCINNATI, OH
FAX: 513-251-1111
18 JUN -5 AM 10:54

Company Name: <u>Earth Res Group</u>		EMSL Customer ID:	
Street: <u>6912 Old Easton Rd</u>		City: <u>Pipersville</u>	State/Province: <u>PA</u>
Zip/Postal Code: <u>18947</u>	Country: <u>USA</u>	Telephone #: <u>215 7661211</u>	Fax #:
Report To (Name): <u>Luis Vittorio</u>		Please Provide Results: ☐ Fax ☒ Email	
Email Address: <u>Lvittorio@earthres.com</u>		Purchase Order:	
Project Name/Number: <u>061003.051</u>		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 ☐ DrinkingAll 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:

400 pt w/ milling
PLM Carb 435 Level B
Reporting Limit (<0.1%)

☐ Check For Positive Stop - Clearly Identify Homogenous GroupFilter Pore Size (Air Samples): ☐ 0.8µm ☐ 0.45µm

Samplers Name:

Samplers Signature:

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
Composite	Drill Cuttings	1/2 gallon	6/4/18 0830

Client Sample # (s):

Total # of Samples:

Relinquished (Client): Jarrod SwintokDate: 6/4/18Time: 10:00Received (Lab): C/SDate: 6-5-18Time: 9:00

Comments/Special Instructions:

See Back Page.

Page 1 of 1 pages

Pen Louis Switch to 400 pt C+LO.017 w/milling 6.7.18 8:00 AM
Page 1 of 2

ORIGIN ID: ABEA (610) 366-4819
ANDREW GUTSHALL
LEHIGH HANSON, INC.
7660 IMPERIAL WAY

ALLENTOWN, PA 18195
UNITED STATES US

SHIP DATE: 06AUG18
ACTWGT: 1.00 LB
CAD: 2003779/INET4040

BILL SENDER

TO **GARY LATSHA**
PA DEP - POTTSVILLE DMO
5 W LAUREL BLVD

POTTSVILLE PA 17901

(570) 621-3118

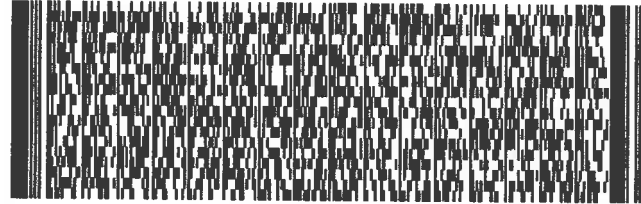
REF:

INV:
PO:

DEPT:

552.113309/DOA5

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Express



WED - 08 AUG 4:30P

**** 2DAY ****

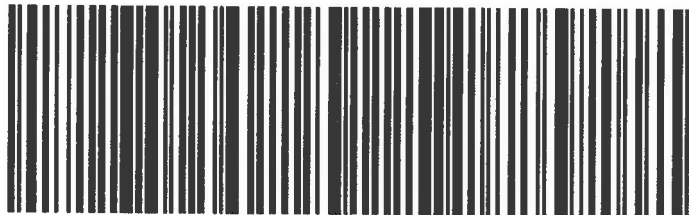
TRK#
0201

7729 0440 8618

15 RDGA

17901

PA-US ABE



8/6/2018