



EARTHRES

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December 19, 2018

Michael J. Menghini, District Mining Manager
Department of Environmental Protection
Pottsville District Mining Office
5 West Laurel Boulevard
Pottsville, PA 17901-2454

**SUBJECT: NOA One-Time Background Site Operations Sampling Plan
Rock Hill Quarry Operation
SMP No. 7974SM1
East Rockhill Township, Bucks County
EarthRes Project No. 061003.051**

Dear Mr. Menghini:

On behalf of Hanson Aggregates Pennsylvania, LLC (Hanson) and in follow-up to our joint meeting on December 14, 2018 with the Pennsylvania Department of Environmental Protection (PA DEP), Lehigh Hanson, Compliance Plus Services, and R.E. Pierson personnel, please find the below one-time background sampling plan.

As directed by PA DEP, the samples proposed to be collected are targeted to assess the presence of Naturally Occurring Asbestos (NOA) at several current site operation locations per your request.

SAMPLING LOCATIONS

The proposed sampling locations include four (4) water samples and six (6) aggregate samples as described below:

Water sampling (4 samples):

- One sample from each sediment pond (2 samples)
- Main Quarry Pit
- NPDES 001 Outfall

Aggregate sampling (6 samples):

- Two (2) samples collected from the fines under the portable crusher
- One (1) aggregate sample from the 2A stone pile
- One (1) aggregate sample from the screenings pile
- One (1) aggregate sample from the 1B stone pile
- One (1) aggregate sample from the 2B stone pile

SAMPLING AND ANALYSIS

Water samples will be grab samples collected in laboratory supplied bottleware. Aggregate samples will be collected as material composites in one (1) gallon plastic bags. The samples will be mixed and quartered prior to transmittal to the laboratory for analysis. A blind duplicate water sample and aggregate sample will also be collected.

Aggregate samples will be analyzed using Polarized Light Microscopy (PLM) via EPA 600/R-93/116 method with preparation using the CARB 435 method, resulting in a minimum detection limit (MDL) of 0.25%. If NOA is detected at or above the MDL, the sample results will be confirmed using Transmission Electron Microscopy (TEM) analysis via EPA 600/R-93/116. Water samples will be analyzed using TEM via EPA Method 100.2 for asbestos fibers.

The samples will be transported directly to EMSL Laboratory in Cinnaminson, NJ using standard chain-of-custody procedures. Samples will be submitted for a 24 hr. turnaround time.

SAMPLE REPORTING

The Department will be notified of the sampling results within 24 hours of receipt.

Upon approval, we are prepared to commence sampling at the site immediately. If you have any questions or concerns regarding the proposed sampling please feel free to contact me at (215) 766-1211.

Sincerely,
EarthRes Group, Inc.



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

cc: Mark Kendrick, Hanson*
Andrew Gutshall, Hanson*
Curt Mitchell, R.E. Pierson
Mike Logan, CPS*
Mike Kutney, PA DEP*
Gary Latsha, PA DEP*
Amiee Bollinger, PA DEP*
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