



August 4, 2017

P. Richard Scheller, P. E.  
Geo-Science Engineering Co. Inc.  
1252 Mid Valley Drive  
Jessup, PA 18434

Re: Act 17 - Wilkes-Barre Area School District – Proposed High School (Pagnotti) Site

Dear Mr. Scheller:

The Department of Environmental Protection (Department) has completed an Act 17 substrata evaluation for the Wilkes-Barre Area School District's proposed new high school construction at the Pagnotti Site, Plains Township, Luzerne County.

The core drilling program within the proposed construction site concentrated on the Hillman, Upper Five Foot and Lower Five Foot Veins. Our site evaluation indicates that the maximum coal mining related subsidence risk for this site is medium. Generally, there is a low risk for pothole type subsidence; however past surface mining on the site may contribute to future settlement due to unconsolidated soil/spoil material. The calculated maximum for trough type subsidence for this site from the Upper Five Foot and Lower Five Foot Veins is 1.0 feet of vertical displacement (Test Borings Nos. B5 & B6). Additional uncalculated broad, shallow trough type settlement from deeper mine workings in the Upper Baltimore and Lower Baltimore Veins (not drilled for this evaluation) is also a possibility. A maximum subsidence event at this site could cause structural damage and pose some risk to the health and safety of building occupants.

The Department grants you a conditional approval to construct the proposed facility if the Wilkes-Barre Area School District implements, as a minimum, a site preparation or foundation reinforcement program designed and approved by a qualified foundation engineer. This conditional approval allows you to consider a variety of options to modify the site or strengthen the proposed building foundation beyond that which is commonly designed for a facility not threatened by subsidence of the indicated magnitude.

Enclosed is a completed Department of Education Plancon-E07 Form for your records. If you have any questions regarding this evaluation, please contact Tim Altares, P.G., Chief, Mine Fire and Subsidence Section, Division of Development and Design, at 717.783.2267.

Sincerely,

A handwritten signature in black ink, appearing to read "Eric E. Cavazza".

Eric E. Cavazza, P.E.  
Director

Enclosure

Mr. P. Richard Sheller, P.E.

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August 4, 2017

bcc: Jack Rokavec (e-copy) *JKR*  
Tim Altares (e-copy)  
File

*EEC*

EEC:RJ:TA:DMU:bam

**PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
MINE SUBSIDENCE EVALUATION**

**TO BE COMPLETED BY THE SCHOOL DISTRICT OR AVTS**

DISTRICT/AVTS: Wilkes-Barre Area School District COUNTY: Luzerne  
 PRJT BLDG Name: New High School- Pagnotti Site PROJECT #: 16  
 SITE LOCATION: Plains, PA SITE SIZE: 55 ACRES

BUILDING TYPE:  NEW BUILDING  
 ADDITION TO EXISTING BUILDING  
 ADDITION AND ALTERATION  
 ALTERATION ONLY

As one of the conditions for the Pennsylvania Department of Education's approval of our proposed site for the above school construction project, we must receive your evaluation of the site with respect to mine subsidence. Attached are the following materials for your consideration:

<u>ALL PRJTS</u>	<u>PAGE#</u>	
<u>X</u>	E04-E05	General Site Description
<u>X</u>		Physical Characteristics of Project Site Drawing
<u>X</u>		U.S.G.S. Topographical Map (7 1/2" Series) With Site Location
<u>X</u>		Geotechnical Subsurface Investigation Report

The school's contact person is: P. Richard Scheller, P.E. 570-840-3691  
Name Phone Number

The project architect is: Williams, Kinsman, Lewis Architecture 570-822-0991  
Name Phone Number

**TO BE COMPLETED BY THE PA DEPARTMENT OF ENVIRONMENTAL PROTECTION**

BASED ON OUR REVIEW OF THE SUBMITTED MATERIALS, THE PROPOSED SITE IS: APPROVED

RISK OF MINE SUBSIDENCE: NONE \_\_\_ SLIGHT \_\_\_ MEDIUM X HIGH \_\_\_ VERY HIGH \_\_\_  
 DAMAGE POTENTIAL: MEDIUM

CONDITIONS OR REMARKS:

Act 17 Conditional Approval

See Attached Correspondence

ATTACHMENTS: YES X NO \_\_\_

  
Signature, DEP Official

Eric E. Cavazza, P.E.  
DEP Official's Name, Printed or Typed

Director  
Bureau of Abandoned Mine Reclamation  
DEP Official's Title

Harrisburg, PA  
DEP Regional Office

08/02/2017  
Date

THIS FORM SHOULD BE RETURNED TO THE SCHOOL DISTRICT/AVTS TO BE INCLUDED IN THE PART E SUBMISSION FOR THIS PROJECT. FORMS SENT DIRECTLY TO THE PENNSYLVANIA DEPARTMENT OF EDUCATION WILL BE DISCARDED.