



Sent via Fed-Ex

Hanson Aggregates Pennsylvania LLC
7660 Imperial Way
Allentown, PA 18195-1040
Tel 610-366-4600
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April 30, 2019

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

**Re: Rock Hill Quarry NOV Abatement Plan – 03/22/2019 Site Inspection
Hanson Aggregates Pennsylvania LLC
SMP No. 7974SM1
East Rockhill Twp., Bucks Co., PA**

Mr. Latsha:

Hanson Aggregates Pennsylvania LLC (Hanson) is submitting three (3) copies of this Abatement Plan in response to the Department's Notice of Violation (NOV) contained in the March 22, 2019 Noncoal Inspection Report. Hanson received the NOV on April 17, 2019 via the US Postal Service.

The March 22, 2019 Noncoal Inspection Report included the following description of the violation:

During a site visit on March 22, 2019, discolored (tan) water was observed seeping through the berm of the sediment trap located in the SE corner of the permit (Sediment trap #1). This is a violation of 25 Pa. Code Chapter 102 and permit conditions which incorporate the former 25 Pa. Code Chapter 77.102(c)(1), therefore a Notice of Violation is issued. The operator shall construct and maintain Sediment trap #1 in accordance with the approved plans and the regulations. The operator should submit to the Department, for approval, any changes made to the design, construction and/or maintenance of Sediment trap #1. The operator should complete this work on or before May 3, 2019. A follow up inspection will be conducted to verify corrective action measures have been implemented and the operator is in compliance with the approved plan.

Abatement Plan

Please see attached E&S Improvement Plan prepared by EarthRes Group, Inc. detailing proposed modifications to Sediment Trap 1. Upon the Department's approval, R.E. Pierson will complete the proposed improvements.

Please feel free to contact me at (610) 366-4819 should you require additional information.

Sincerely,



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

encl: March 22, 2019 PADEP Inspection Report Noncoal
E&S Improvements Plan – Sediment Trap 1 Area (EarthRes Group, Inc.)
including Drawing D-001

cc: Joseph S. Blyler, Jr., P.E., PADEP (e-mail only)
Amiee Bollinger, PADEP (e-mail only)
Richard E. Tallman, E.I.T., PADEP (e-mail only)
Mark E. Kendrick, Hanson – Allentown (e-mail only)
Timothy J. Poppenberg, Hanson – Allentown (e-mail only)
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Curt Mitchell, R.E. Pierson (e-mail only)
Slavic Mokienko, R.E. Pierson (e-mail only)
Bill Bowling, R.E. Pierson (e-mail only)
Jim Allen, R.E. Pierson (e-mail only)
David J. Raphael, Esq., K&L Gates LLP (e-mail only)
Robert W. Gundlach, Jr., Esq., Fox Rothschild LLP (e-mail only)
Marianne Morano, East Rockhill Twp (e-mail only)
Michael D. Fling, P.E., EarthRes (e-mail only)
Environmental File



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF MINING PROGRAMS

RECEIVED
4/17/2019

Page 1 of 1

INSPECTION REPORT
NONCOAL

Date: 3/22/2019

Mine Name Rock Hill QuarryWeather Overcast 40 FComplete ☐ Partial ☒

On Site Times 1100 - 1200

PERMITTEE Hanson Aggregates Pennsylvania, LLC	TOWNSHIP East Rockhill	COUNTY Bucks	PERMIT NO. 7974SM1
ADDRESS: 7660 Imperial Way Allentown PA 18195	VIOULATION HISTORY 0 NOV'S 1 CO'S	☒ VIOLATIONS NOTED PREVIOUS VIOLATIONS: ☐ CORRECTED ☐ UNCORRECTED	☒ FOLLOW-UP INSP. REQUIRED ☐ COMPLIANCE ORDER ☐ FTC ORDER ☐ CEASE ORDER
GENERAL MINING INFORMATION: Large ☒ Small 10,000 ☐ 2,000 ☐ GP 105 ☐ GP 103 ☐ Expiration Date:		LICENSE NO. & EXP. DATE 24143 12/31/2019	
OPERATIONAL STATUS Active			
a. Areas-Minerals-Pit Dimensions (L/W/H)-Method: Argillite open pit- water filled pit- ~1500' x ~900' x ~250'			
b. Equipment-Use & Conditions: FEL- good condition			
c. Contract Miner: Yes ☒ No ☐ Name: Richard E. Pierson Materials Corp. d. Approved Blast Plan: Yes ☒ No ☐ Is there blasting today? Yes ☐ No ☒			
Approved Acres		Approved Pit Volume	
Mining Area: 103.2 Support:		yd ³	
Disturbed not planted:		Current Pit Volume	
Affected acres		yd ³	
Mining Area: 103.2 Support:		Selective Grading of Highwall	
Disturbed not planted:		Approved: yd ³ Current:	
Progress of Reclamation		Liability	
Regraded acres Topsoiled acres		Current Bond	
Water Impoundment: Acres Approved Acres Actual		\$203,400	
Planted, Grasses acres		Current Liability	
Trees Required ac. Planted ac.		\$	
Meeting Stage 1 criteria: acres			
Highwall Bond (Blasting to achieve reclamation) Approved/Affected			
<20 ft.: ft. ft.	>20<30 ft. ft. ft.	>30<40 ft. ft. ft.	>40<50 ft. ft. ft.
>50 ft. ft. ft.			

PERFORMANCE STANDARDS NONCOAL

Obs.	STANDARD	PC or Reg.	Viol.	Comp. Date	Obs.	STANDARD	PC or Reg.	Viol.	Comp. Date
☐	Unauthorized Mining		☐		☐	Air Resources Protection		☐	
☐	Mining License		☐		☐	Concurrent Reclamation		☐	
☐	Signs and Markers		☐		☐	Backfilling and Grading		☐	
☐	Topsoil-Rem/Storage/Handling		☐		☐	Revegetation		☐	
☐	Effluent Standard		☐		☐	Haul Roads		☐	
☐	Diversions and Conveyance		☐		☒	General Safety		☐	
☐	Sediment Control Measures		☐		☒	Permit Conditions		☐	
☐	Treatment Facilities		☐		☐	Temporary Mining Cessation		☐	
☒	Sedimentation Ponds	REG	☒	5/3/19	☒	Distance Limitations-Barriers		☐	
☐	Discharge Structures		☐		☐	Bench Development		☐	
☒	Dams, Ponds-Design/Const./Maint.		☐		☒	Permit Line Setback		☐	
☐	Water Monitoring-Ground/Surface		☐		☐	Stability Analysis		☐	
☐	Water Discharge-Underground Mine		☐		☐	Blasting Requirement		☐	

COMMENTS AND RECOMMENDATIONS: This partial inspection is to note a violation. During a site visit on March 22, 2019, discolored (tan) water was observed seeping through the berm of the sediment trap located in the SE corner of the permit (Sediment trap #1). This is a violation of 25 Pa. Code Chapter 102 and permit conditions which incorporate the former 25 Pa. Code Chapter 77.102(c)(1), therefore a Notice of Violation is issued. The operator shall construct and maintain Sediment trap #1 in accordance with the approved plans and the regulations. The operator should submit to the Department, for approval, any changes made to the design, construction and/or maintenance of Sediment trap #1. The operator should complete this work on or before May 3, 2019. A follow up inspection will be conducted to verify corrective action measures have been implemented and the operator is in compliance with the approved plan.

Violation History: CO issued 8/14/2018 - 25 Pa. Code Chapter 102 and permit conditions which incorporate the former 25 Pa. Code Chapter 77.102(c)(1).

Person Contacted None	Title	Discharge/Seeps: ☒ yes ☐ no	Samples Collected: ☐ yes ☒ no
Signature		Range of Samples Collected	to
		Investigator Signature Amiee Bollinger	Collector ID No. 4519 Employee ID No. 608058

The Operator's signature acknowledges that he has read the report, including the reverse side, and that he was given the opportunity to discuss it with the investigator. The signature does not necessarily mean he agrees with the report.

☐ White - District File☐ Yellow - Permittee☐ Pink - Inspector



APPEAL NOTICE

Any person aggrieved by this action may appeal, pursuant to Section 4 of the Environmental Hearing Board Act, 35 P.S. Section 7514, and the Administrative Agency Law, 2 Pa. C.S. Chapter 5A, to the Environmental Hearing Board, Second Floor, Rachel Carson State Office Building, 400 Market Street, P.O. Box 8457, Harrisburg, PA 17105-8457, 717-787-3483. TDD users may contact the Board through the Pennsylvania Relay Service, 800-654-5984. Appeals must be filed with the Environmental Hearing Board within 30 days of receipt of written notice of this action unless the appropriate statute provides a different time period. Copies of the appeal may be obtained from the Board. At 717-787-3483. This paragraph does not, in and of itself, create any right of appeal beyond that permitted by applicable statutes and decisional law.

Violations of performance standards on operations permitted prior to the effective date of the regulations promulgated pursuant to Act 219, the 1984 Noncoal SMCRA shall be cited as a violation of permit conditions and shall be designated as PC on the reverse side in the column headed by PC or Reg.

Violations of performance standards on operations permitted after the effective date of the regulations promulgated pursuant to Act 219, the 1984 Noncoal SMCRA shall be cited as a violation of the regulations.

APPEAL NOTICE

**Hanson Aggregates Pennsylvania, LLC
Rock Hill Quarry
E&S Improvements Plan
Sediment Trap 1 Area**

Pursuant to the PA DEP site Inspection Report dated March 22, 2019 and follow up review of the area on April 10, 2019 between PA DEP, Hanson Aggregates Pennsylvania LLC (Hanson), R.E. Pierson Materials Corp. (Pierson), and Earthres Group, Inc. personnel, the following plan is provided to outline the corrective action measures to be taken at the Rock Hill Quarry to address erosion and sediment control plan improvements in the area of Sediment Trap 1.

In addition a drawing detailing the current condition and proposed improvements has been provided to support implementation of the plan.

Sediment Trap 1

Description: The trap spillway will be raised approximately one (1) foot to 545' MSL and the berm will be raised approximately one (1) foot to 546' MSL to provide additional settling storage volume within the trap. The trap is already oversized; however, this additional measure will provide increased capacity for collection and treatment of surface water runoff. Hanson and Pierson plan to utilize onsite overburden and processed stone to complete the effort to raise the spillway and berm.

The trap spillway will be outfitted with a six (6) inch layer of AASHTO #57 stone, a six (6) inch layer of compost, and filter fabric across the inside face of the spillway to provide increased filtration of collected waters.

The inside banks of the trap will be stabilized with vegetation via hydroseeding to promote stability of the banks and decrease erosion and sediment transport.

A 24 inch compost filter sock will be installed downslope of the trap spillway to improve the filtration capacity for any waters discharged through the spillway. This filter sock will replace the existing 12 inch filter sock currently in place.

The inflow areas from the diversion berms (Diversion Berms 2 and 3) will be lined with R-3 rip rap to improve stability of the banks and decrease erosion and sediment transport into the trap.

Timeline: Hanson and Pierson anticipate completion of the updates to Sediment Trap 1 within three weeks following approval of the plan by PA DEP.

Diversion Berm Slopes

Description: The outer slopes of the existing diversion berms will be stabilized with vegetation via hydroseeding to promote stability and decrease erosion and sediment transport to downslope areas.

Timeline: Hanson and Pierson anticipate completion of the updates to diversion berm slopes within three weeks following approval of the plan by PA DEP.

*Hanson Aggregates Pennsylvania LLC
Rock Hill Quarry
April 2019*

**SEDIMENT TRAP
DESIGN CALCULATIONS**

Hanson Aggregates - Rock Hill Quarry

Sediment Trap 1 - Improvements

Design Notes

Required Storage Volume and Elevations		
Drainage Area, DA (acres)	Measured	4.28
Required Sediment Storage Volume (cf)	700 x DA	2,996
Required Settling Volume (cf)	1300 x DA	5,564
Required Total Volume (cf)	Sediment + Settling	8,560
Total Storage Volume Provided (cf)	Storage Volume Table	25,301
Elevation for Sediment Storage Volume (ft.)	Chosen	543.00
Total Volume Elevation (ft.)	Chosen	545.00
Top of Embankment Elevation		
Total Volume Elevation (ft.)	Primary Spillway Table	545.00
Freeboard (ft.)	Required	1.00
Top of Embankment Elevation (ft.)	Flow Elevation + Freeboard (min.)	546.00
Trap Dimensions		
Bottom Length (ft.)	Chosen	108.00
Bottom Width (ft.)	Chosen	59.00
Crest Length (ft.)	Chosen	121.00
Crest Width (ft.)	Chosen	72.00
Top Length (ft.)	Chosen	132.00
Top Width (ft.)	Chosen	76.00

Hanson Aggregates - Rock Hill Quarry

Sediment Trap 1 - Improvements

Storage Volume Check

Elevation ft.	Plan Area sf	Average Area sf	Elevation Difference ft.	Incremental Volume cf	Incremental Volume acre-ft	Cummulative Volume cf	Cummulative Volume acre-ft
542	7,301					0	0
543	8,044	7,669	1.0	7,669	0.176	7,669	0.176
544	8,813	8,425	1.0	8,425	0.193	16,095	0.369
545	9,607	9,207	1.0	9,207	0.211	25,301	0.581
546	10,877	10,235	1.0	10,235	0.235	35,537	0.816

Design:

Sediment Storage Volume = 7669.00 CF
Sediment Storage Volume Elevation = 543.00 ft.
Settling Storage Volume = 17632.35 CF
Settling Storage Volume Elevation = 545.00 ft.

Requirements:

Sediment Storage Volume (700 CF/disturbed area acres) = 2,996 CF
Settling Storage Volume (1,300 CF/drainage area acres) = 5,564 CF
Drainage Area (acres) = 4.28 acres

Average area calculated as follows: $[A+B+\sqrt{A*B}]/3$

By: JTK
Date: 4/23/2019
Chk'd: MDF
Date: 4/23/2019

Hanson Aggregates - Rock Hill Quarry

Sediment Trap 1 - Improvements

EMERGENCY SPILLWAY DISCHARGE CAPACITY

WEIR FLOW		
WATER SURFACE ELEV (FT)	HEAD H (FT)	FLOW (1) Q (CFS)
545.00	0.00	0.00
545.25	0.25	11.25
545.50	0.50	31.82
545.75	0.75	58.46
546.00	1.00	90.00

Notes:

(1) Weir Flow, $Q = CLH^{1.5}$

where: C = weir coefficient = 3.00
L = bottom width of the spillway crest, ft. = 30.00
H = depth of flow above the spillway crest, ft.

By: JTK
Date: 4/23/2019
Chk'd: MDF
Date: 4/23/2019

*Hanson Aggregates Pennsylvania LLC
Rock Hill Quarry
April 2019*

DRAWING