

Office of Active and Abandoned Mine Operations

KEYSTONE PASSIVE TREATMENT SYSTEM Acid Mine Drainage Abatement Project Contract No. AMD 65(1183)103.1

Bureau of Abandoned Mine Reclamation 286 Industrial Park Road Ebensburg, PA 15931-4119

DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF ACTIVE AND ABANDONED MINE OPERATIONS BUREAU OF ABANDONED MINE RECLAMATION

KEYSTONE PASSIVE TREATMENT SYSTEM ACID MINE DRAINAGE ABATEMENT PROJECT CONTRACT NO. AMD 65(1183)103.1

FACT SHEET

Location: The project is located in Derry Township, Westmoreland County.

The site can be accessed from State Route 22 (S.R. 22) (William Penn Highway) in New Alexandria by traveling 2.8 miles south on S.R. 981 (Old Derry Road), turn left onto Slag Road (T-860), after traveling 1.0 miles turn left onto a gravel access road to the Keystone State Park Waste Water Treatment Plant, after 0.1 miles

turn left and proceed through the gate to the project site.

Watershed: McCune Run, Warm Water Fishes (WWF)

Official Start Date: December 5, 2016

Contract Completion Date: October 23, 2017

Contractor: Terra Works, Inc.

Property Owners: Commonwealth of Pennsylvania

Department of Conservation and

Natural Resources

1150 Keystone Park Road Derry, PA 15627-3679

Project Cost: \$447,721.50 (Final Amount), \$428,418 (Bid Amount)

Project Area: 4.1 Acres

Purpose: To rehabilitate a failing acid mine discharge passive treatment

system.

Description: The Keystone Passive Treatment System project involved the

renovation of the existing passive system. The existing limestone upflow pond was reconfigured to a horizontal limestone bed. Six hundred feet of dual eight-inch conveyance pipelines were replaced to enable the change to the hydraulic gradeline. Two settling ponds and a manganese removal bed were added to the system, and the aerobic wetland was reconstructed. Flow is now directed through Settling Pond No. 1, the limestone bed, Settling Pond No. 2, the aerobic wetland and then the manganese removal bed to McCune Run. The existing mine drain and seal were also replaced. The system treats AMD discharges located within Problem Area 1183 (PA 1183) identified as Abandoned Mine

Land Feature (AMLF) No. 1183-01 (IWS), Impacted Water Source, AMLF No. 1183-02 (IWS) and AMLF No. 1183-03 (IWS), which are located within the Latrobe and Saltsburg 7.5 Minute USGS Quadrangle Maps. These features were the result of deep mining performed prior to 1953 by the Keystone Coal and Coke Company's Salem No. 2 deep mine.

Funding: AMD Set-Aside Funds

Project Management: Bureau of Abandoned Mine Reclamation

Cambria District Office

814.472.1800

Accomplishments:

Y	AMLF#	AMLF KEYWORD	MEASUREMENTS						Y	
PRIORIT			ACRES	HEIGHT	LENGTH	COUNT	VOL.	FLOW	OUANTII	UNIT
3	1183-01	MO	-	-	-	1	-	-	1	Count
3	1183-01	WA	-	-	ı	-	-	90	90	GPM
3	1183-02	WA	-	-		-	-	5	5	GPM
3	1183-03	WA	-	-	-	-	-	5	5	GPM

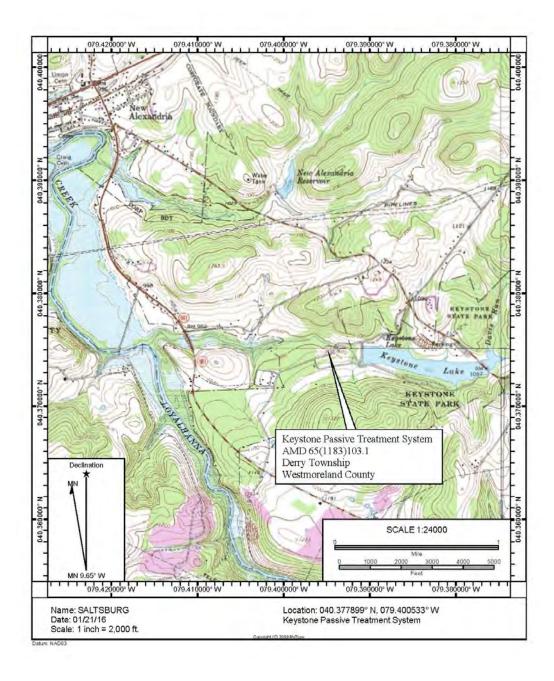
AMLF – Abandoned Mine Land Feature

MO - Mine Opening

WA – Water

GPM – Gallons Per Minute

Location Map



Pre-Construction



Limestone upflow pond from the center of the northeast embankment, looking southeast



Flushing pond from the northeast embankment looking northwest



Aerobic wetlands from the northeast embankment looking southeast



Outfall ditch from the southwest embankment of the flushing pond looking northwest

During Construction

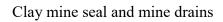




Excavating the mine seal

Installing dual mine drains







Placing new conveyance pipelines

During Construction

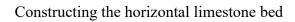




Constructing Settling Pond No. 1

Excavating limestone and piping from the existing limestone upflow bed







Excavating for Settling Pond No. 2

During Construction



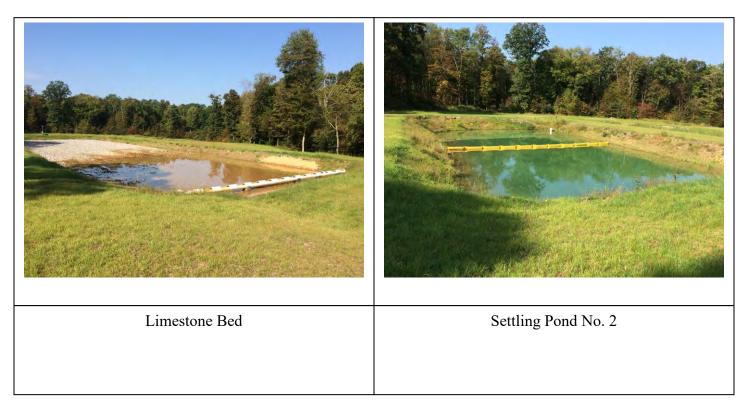
Constructing the aerobic wetland



Placing limestone in the manganese removal bed

Post-Construction





Post-Construction

