Office of Active and Abandoned Mine Operations

GLADDEN AMD TREATMENT PLANT
AND FISHING RUN STREAM SEALING
Acid Mine Drainage Abatement Project
Contract No. AMD 02(0441)101.1

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

GLADDEN AMD TREATMENT PLANT
AND FISHING RUN STREAM SEALING
ACID MINE DRAINAGE ABATEMENT PROJECT
CONTRACT NO. AMD 02(0441)101.1

FACT SHEET

Location: Sixteen miles south of the City of Pittsburgh, located in South Fayette Township, Allegheny County. Take Route 376W to Exit 64A to I-79S. On I-79 go six miles to Exit 54 to PA Route 50 toward Bridgeville. The location of the plant is 3.3 miles south on PA Route 50. Take a left at the light onto Parks Road and the entrance is on the left in 0.2 miles.

Watershed: Chartiers Creek Watershed, Warm Water Fishes (WWF)

Official Start Date: May 11, 2020

Contract Completion Date: February 2021. AMD Industries is currently contracted to operate the Gladden Acid Mine Drainage Treatment Plant.

Contractor: John Kosky Inc., through a grant to the South Fayette Conservation Group.

Property Owners: John and Madeline Kosky South Fayette Conservation Group
214 Hickory Grade Road 515 Millers Run Road
Bridgeville, PA 15017 Morgan, PA 15064

Cuddy Partners John Alan and Stacy Kosky
P.O. Box 136 722 Millers Run Road
Cuddy, PA 15031-0136 McDonald, PA 15057

Secure Storage
757 Millers Run Road
McDonald, PA 15057

Project Cost: $14,167,890 - including Fishing Run Stream Sealing which still needs to be completed.

Project Area: Plant Area: 3.0 Acres,
Pipe line easements are for: Cuddy Partners 1.74 acres, John Alan and Stacy Kosky, 2.36 acres, John and Madeline Kosky 0.57 acres, and Secure Storage 0.53 acres,
Purpose:
The purpose of this project was to build an automated, cost-effective operational acid mine drainage (AMD) treatment plant that remove 690 pounds of iron pollution per day from Chartiers Creek Watershed. The operation of the Gladden AMD Treatment Plant restored four miles of Millers Run and four miles of Chartiers Creek and the PA Fish and Boat Commission restored a stocked-trout fishery at these sections of streams. Chartiers Creek is also a common place for canoes and kayaks, with seven boat launches along its banks between Canonsburg Lake and the Ohio River.

Description:
The new Gladden AMD Treatment Plant under Contract No. AMD 02(0441)101.1 is located in South Fayette Township, Allegheny County. The 2.2 million gallons per day (MGD) plant is treating the existing Gladden Discharge from the abandoned deep mine of Pittsburgh Coal Company’s Montour No. 2 underground mining complex that discharges 690 pounds per day of iron pollution into Millers Run. The plant had entailed two pumping stations to extract the AMD water from the mine pool and bring it to the surface for treatment using oxidation, hydrogen peroxide addition, alkaline addition to form solid precipitates and clarification equipment to remove the precipitated metals and solids from the water with a polishing pond. The treated water is being discharged to Millers Run and the sludge is being pumped to a vacant mine that is not hydraulically connected for disposal. The Fishing Run Stream Sealing Project will be completed because the Chartiers Creek Operation Scarlift report revealed that there were large flow losses due to mine subsidence present on Fishing Run. An investigation determined that the flow losses of Fishing Run were entering the mine and eventually leaving as AMD-polluted water at the Gladden Discharge.

Funding:
AMD Set-Aside within Pennsylvania's Abandoned Mine Land Grant in the amount of $7,036,004.00; 2017 AMLER funding in the amount of $3,012,442.00; and 2019 AMLER funding in the amount of $4,119,442.00.

Project Management:
Bureau of Abandoned Mine Reclamation
Cambria District Office
814.472.1800
Accomplishments:

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AMLF = Abandoned Mine Lane Feature  
WA = Water Area  
SUB = Subsidence Area  
GPM = Gallons Per Minute
Location Map
GLADDEN AMD TREATMENT PLANT
AND FISHING RUN STREAM SEALING
CONTRACT NO. AMD 02(0441)101.1

Location Map

Gladden Plant Location

Gladden AMD Treatment Plant
and Fishing Run Stream Sealing
AMD 02(0441)101.1
South Fayette Township
Allegheny County
GLADDEN AMD TREATMENT PLANT
AND FISHING RUN STREAM SEALING
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Pre-Construction

Gladden Mine Discharge

Miller’s Run discharging into Chartier’s Creek
During Construction

Concrete footer poured for control building

Settling basin construction for plant discharge
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During Construction

Clarifier headframe being installed.

Control building and clarifier under construction.
Post-Construction

Plant operation at the Gladden AMD Treatment Plant.

Polishing pond discharging treated AMD water,
Post-Construction

Chartier’s Creek at the mouth of Miller’s Run after the Gladden AMD Treatment plant began operation.