



Ohio AML Reclamation Economic Development Pilot Program

OHIO DEPARTMENT OF NATURAL RESOURCES
DIVISION OF MINERAL RESOURCES MANAGEMENT
ABANDONED MINE LAND (AML) PROGRAM

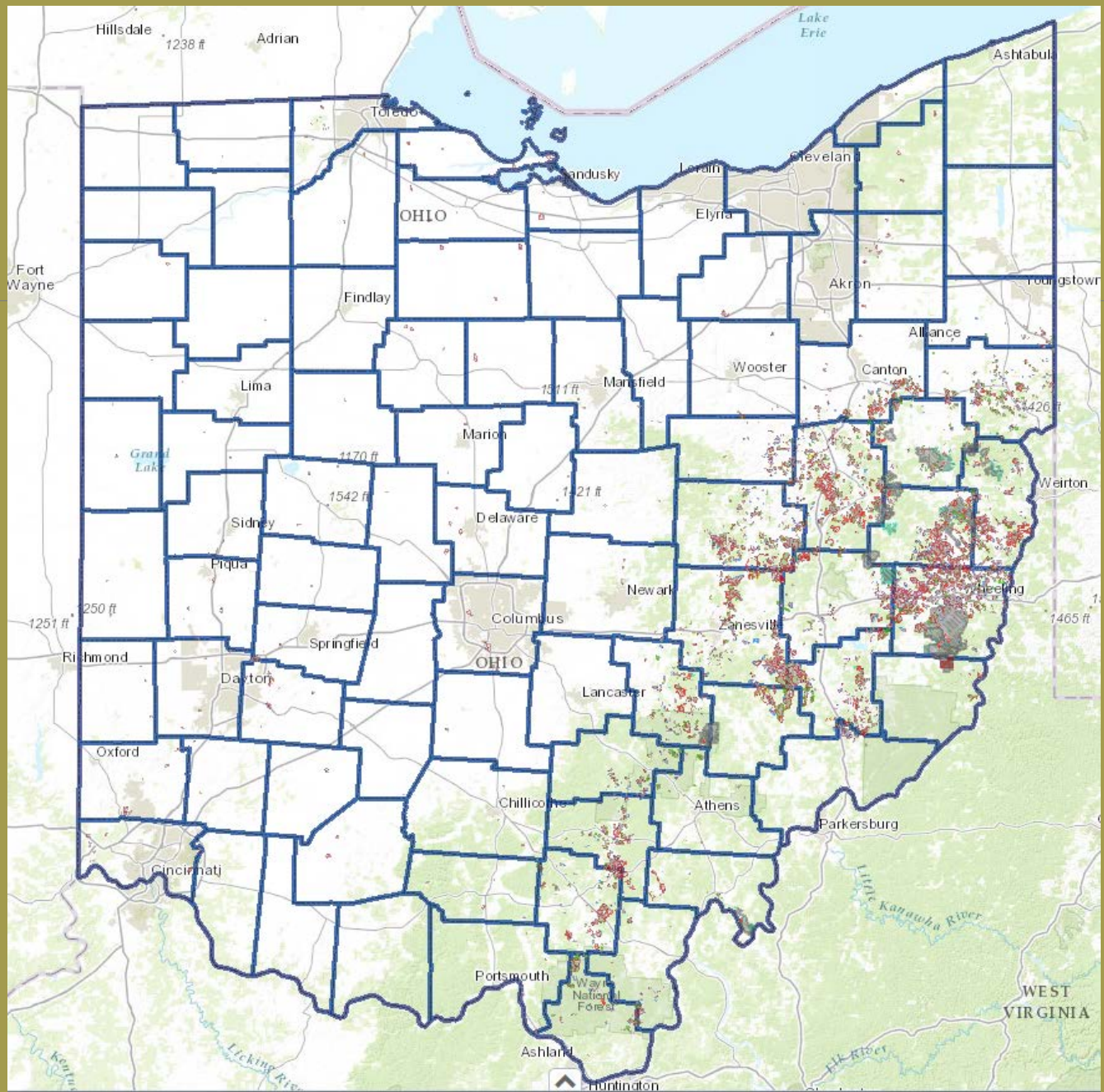
Background

Authorized by Congress under the Consolidated Appropriations Act on December 18, 2015. Original appropriations provided \$30 million each to PA, WV and KY

An additional \$10 million each was added to OH, VA and AL in FY 2017 Omnibus appropriations bill

AML Pilot funding was renewed in 2018 & 2019, adding an additional \$10 million each year for Ohio

Funds are to be used “for the reclamation of abandoned mine lands in conjunction with economic and community development and reuse goals”



Purpose & Intent

Accelerate the remediation of AML sites with economic and community development end uses

Explore and implement strategies to return legacy coal sites to productive uses

Offers states and local communities flexibility in deciding which projects offer the greatest opportunities within their communities

Federal AML Program

Problem Types

- Erosion and Sedimentation
- Landslides
- Dangerous Highwalls
- Acid Mine Drainage
- Impoundments
- Gob Piles
- Hazardous
- Structures
- Subsidence
- Mine Openings



AML Pilot Project Criteria

- Unreclaimed Priority 1, Priority 2, or Priority 3 sites (i.e. AML lands and polluted waters) listed in e AMLIS.
- Previously reclaimed AML lands and polluted waters.
- Land adjacent to unreclaimed or previously reclaimed AML lands and polluted waters as justified by the state and/or the communities impacted by historic coal production.

AML Pilot Grant Process

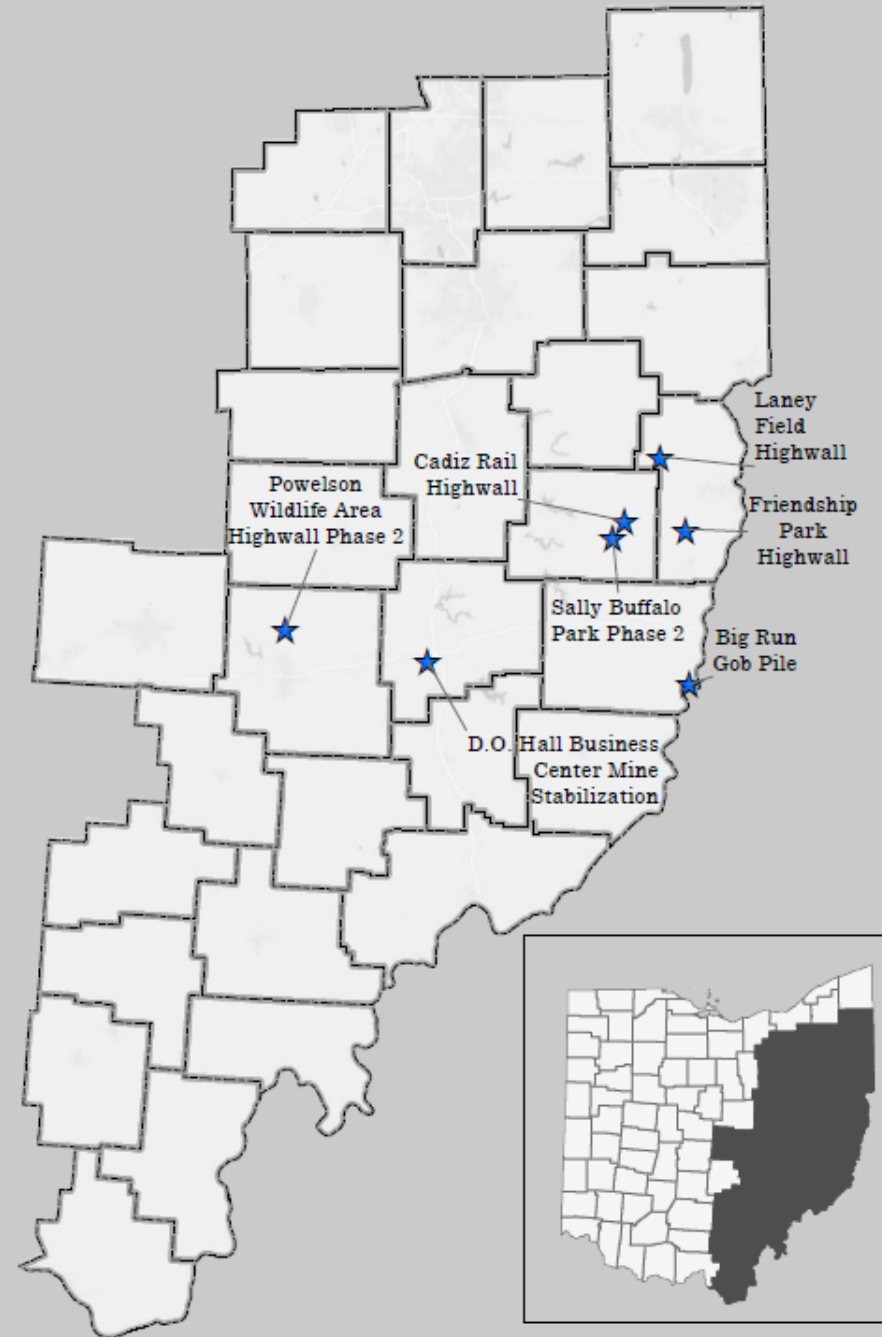
DMRM receives funding from OSMRE – annual grant application

DMRM designs and bids out project work, or DMRM provides grant to project partner to carry out site work

Matching funds are allowed and encouraged. Types include:

- Typical AML Title IV grants (DMRM)
- Appalachian Regional Commission (ARC)
- Economic Development Authority (EDA)
- United States Department of Agriculture (USDA) – *Rural Development Funds*

Ohio AML Pilot Approved Projects Locations



Sally Buffalo Park Phase II

Surface mining occurred in the 1950's by Hanna Coal Company

Eliminate a dangerous highwall located within Sally Buffalo Park in the City of Cadiz

Highwall is 2,765 feet long and averages 60' tall

- 2,225 feet Priority 1, 415 feet Priority 2 and 125 feet Priority 3 highwall

Anticipated project cost: \$958,864

- AML Pilot funding: \$707,363



Sally Buffalo Park Phase II



Sally Buffalo Park Phase II

Project Partners

- Village of Cadiz
- Sally Buffalo Park Board
- Ohio Mid-Eastern Governments Association (OMEGA)

Economic Benefits

- Sally Buffalo Park will add an additional 46 campsites to reclaimed area
- Will add 50 amp electric campsites to park, expanding camping services
- Campsites can generate \$100,000 annually in revenue
- Increase tourism and recreational opportunities in the area



Powelson Wildlife Area Highwalls

Surface mined site in 1940's, Muskingum County

Property purchased in 1958 by Ohio Department of Natural Resources

Project will eliminate 8,025 feet of
dangerous highwall

- 1,167 Priority 1
- 6,858 Priority 2

Anticipated project cost: \$4,031,854



[illegible]

Powelson Wildlife Area Highwalls

Project Partners

- ODNR Division of Wildlife

Economic Benefits

- Provide increased access to wildlife area for recreation and hunting
- Provide access area for specialty hunts for Wounded Warrior program and handicapped accessible areas
- Manage the reclaimed area specifically for Dove and Wild Turkey
- Increased travel and tourism to area and Muskingum county for wildlife recreation

Big Run Gob Pile

Project located in Dilles Bottom, Belmont County

25 acre coal refuse pile from underground mining in Pittsburgh seam from 1920's

- Priority 1 dangerous embankment

Reclamation includes 392,584 cubic yards of earthwork, 10,600 tons of limestone rock for channels

Material will be removed to prepare site for industrial building site for PTT Global Chemical (PTTGC) America

Anticipated project cost: \$3,885,297



Big Run Gob Pile



Big Run Gob Pile



Big Run Gob Pile

Project Partners

- Jobs Ohio
- PTT Global Chemical America

Economic Benefits

- Will provide needed acreage of the 500 acres needed for PTTGC's ethane cracker plant
- Over \$150 million has already been spent on site demolition of former Berger coal fired power plant, engineering, acquisition and site development
- PTTGC's plant construction estimate of \$7.5 billion dollars
- Up to 6,000 jobs will be created during construction
- Hundreds of jobs will be created once plant is operating as well as thousands of spin-off jobs



Cadiz Rail Highwall

Surface mining occurred in the 1950's by Hanna Coal Company

81.5 acre site, eliminate a dangerous highwall located adjacent to active railroad and Baker Ridge Road

Highwall is 2,210 feet in length and averages 65' in height

- 2,225 feet Priority 1, 415 feet Priority 2 and 125 feet Priority 3 highwall

Anticipated project cost: \$627,924



Cadiz Rail Highwall



Cadiz Rail Highwall

Project Partners

- Ohio Mid-Eastern Governments Association (OMEGA)
- Genesee and Wyoming Railroad Services, Inc. and Waste Management (Landowners)

Economic Benefits

- Project will protect essential rail line for the Midwest Utica Terminal and Oxford Coal company loadout from potential slip and closure
- Railroad was rehabilitated and half a mile of abandoned line was reestablished for Midwest Utica Terminal previously. Used 7 days a week to transport stabilized condensate and coal.
- Provide safe transportation of freight for region, including potential proposed landfill near the site

D.O. Hall Business Center Mine Stabilization



Underground mining in 1920's by Plain View Coal Company

Underground works partially removed by surface mining but 4 acres of workings remain, which has subsidence features

Drill and grout mine workings to stabilize surface for site development

Estimated Cost: \$1.58 million

D.O. Hall Business Center Mine Stabilization



D.O. Hall Business Center Mine Stabilization

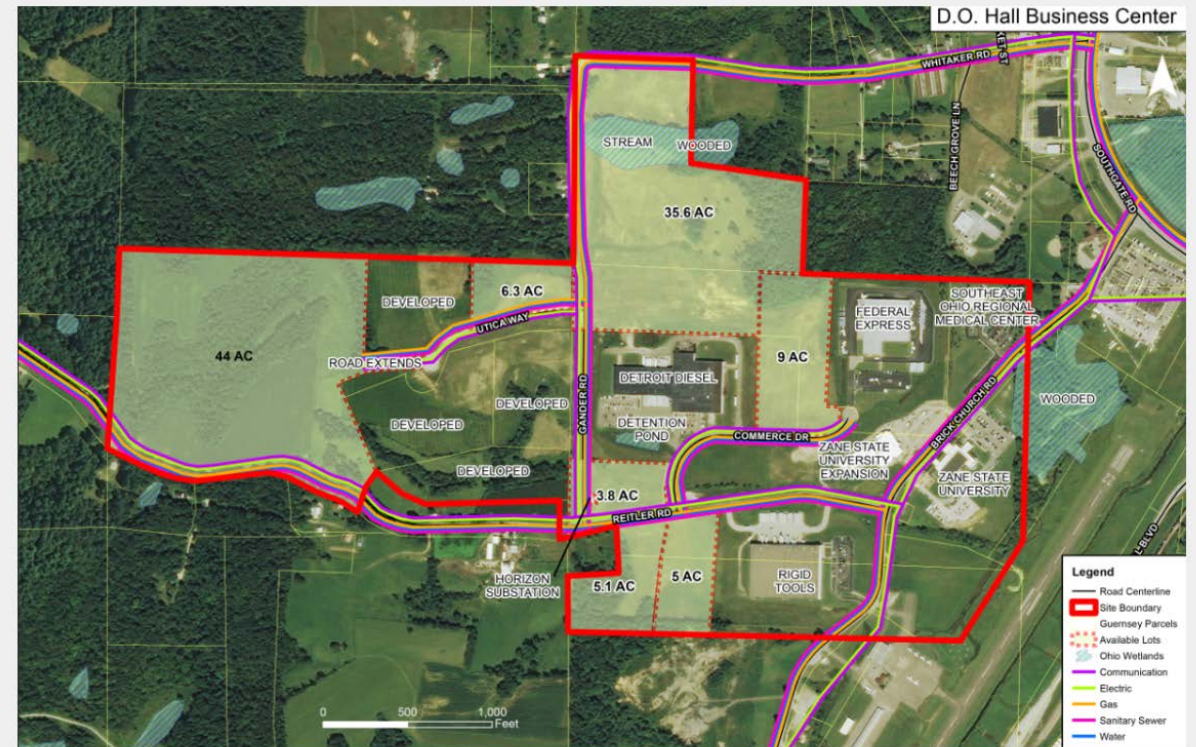
Project Partners

- Cambridge/Guernsey County Community Development Corporation
- Rural Action

Economic Benefits

- Allow 9 acre parcel to be used for site development within 216 acre industrial park
- Cambridge/Geurnsey CIC has been approached by several businesses about the 9 acre parcel
- Cambridge/Geurnsey CIC estimates up to 74 jobs and nearly \$6 million in facility capitol costs

D.O. Hall Business Center Map



The Baileys Trail System

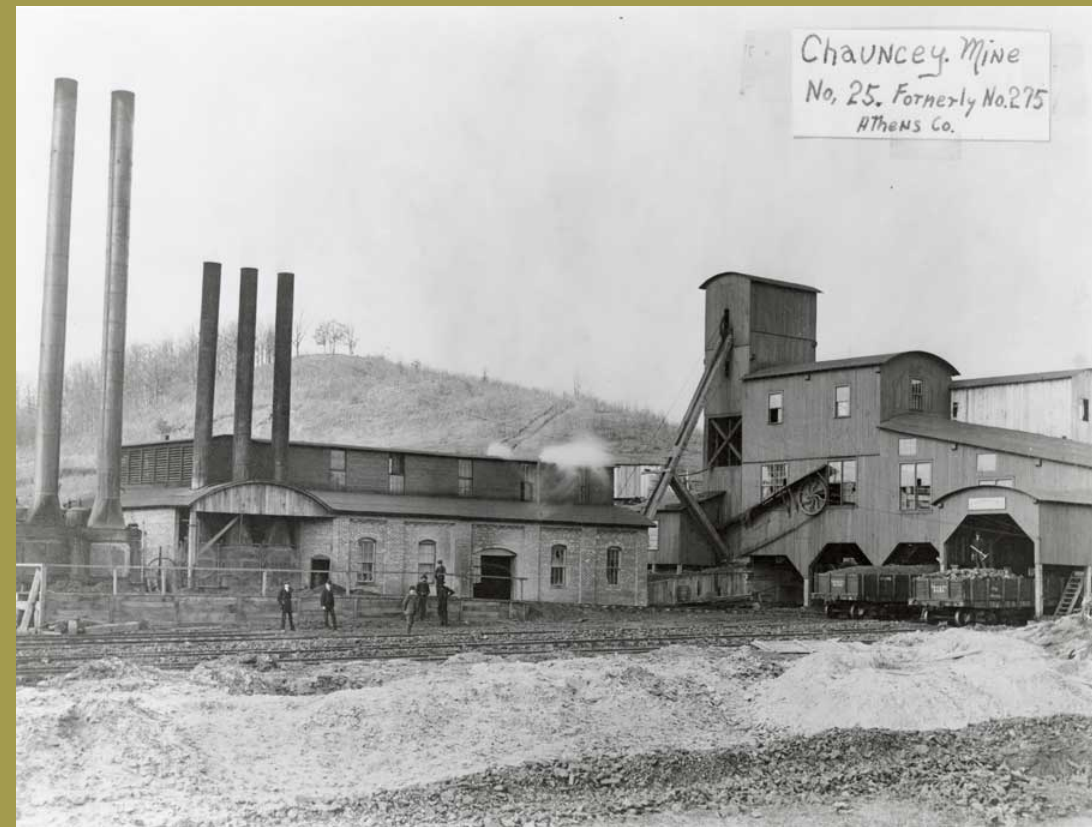
Underground mining in the late 1800' and early 1990's in the area

Eliminate two priority 1 openings, demolition of a priority 1 hazardous facility and a priority 2 subsidence in trailhead locations.

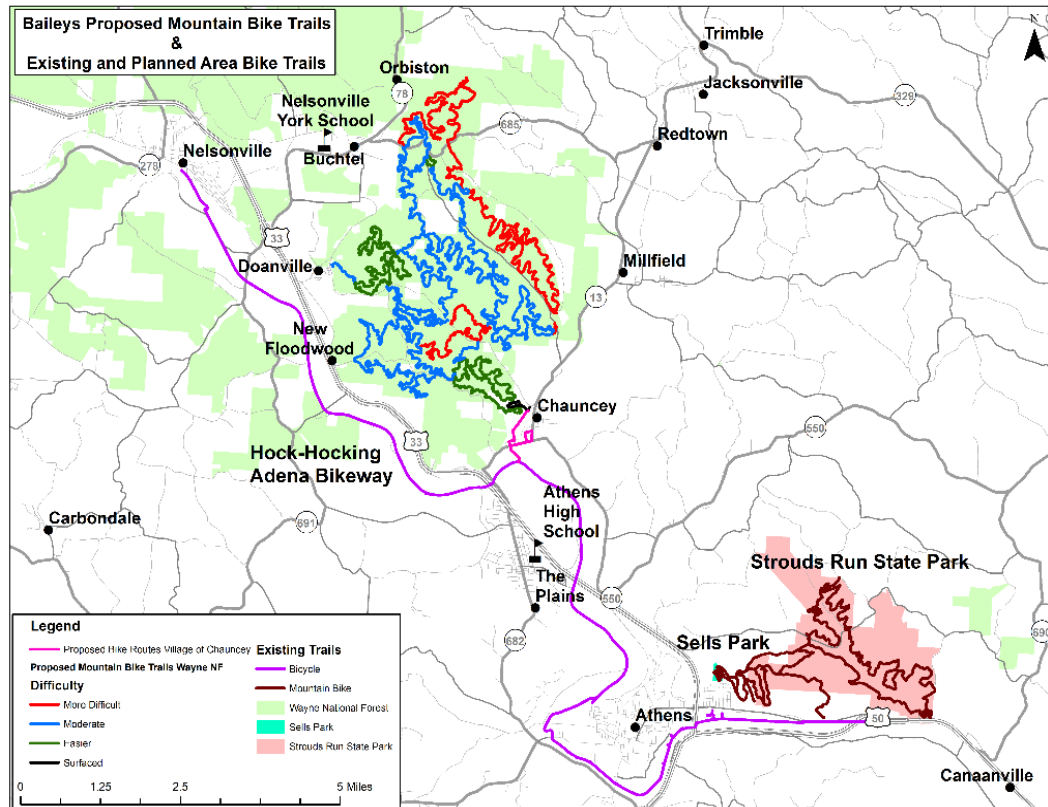
Build mountain bike trailheads and spurs to community of Chauncey and HockHocking Adena Bikeway

Anticipated project cost: \$5,420,000

- AML Pilot \$1,791,887



The Baileys Trail System



Mountain bike trail system proposed



If approved, a proposed trail system for mountain biking in Athens County could be beneficial to Hocking County. Rangers from Wayne National Forest said the project could connect mountain bike trails to communities in Hocking County, which could boost ecological, social, and economic prosperity.

If approved, 92-mile trail could greatly impact Hocking County
BY BETH LANNING and if it's approved, it could... of "Baileys" (West Baileys)... trail that caters to those who...

The Baileys Trail System

Trail system longest single purpose connected trail east of the Mississippi

Trail system is within 250 miles of 35 million people, nearly 15% of US population

Estimated annual increase of 180,000 visitors in first decade

- \$24.8 million in local economic spending
- \$8.6 million in additional wages
- 65 jobs created or retained



Partners include Wayne NF, Athens Bicycle Club, Athens County and many more...

Truetown AMD to Pigment

Largest AMD source in Athens County,
primary mine discharge for 7 square mile
abandoned mine complex

Severely degrades 7 miles of Sunday Creek

Anticipated project cost: \$7,471,619

- AML Pilot \$3,489,408



Truetown AMD to Pigment

Project Goals

1. Remove acid and iron from Sunday Creek, improving water quality and facilitating biological recovery
2. Produce a viable iron oxide pigment product for commercial sale that will support all operational costs and set up a long-term treatment fund for future restoration work
3. Create economic opportunities and jobs in small communities impacted by AMD



GAMBLIN ARTISTS COLORS CO.
PO Box 625, Portland, OR 97207



Pigment: Hematite
extracted from
acid mine drainage
Vehicle: Alkali refined
linseed oil
Lightfastness I

To learn more about
Detox Red go to:



www.gamblincolors.com
www.johnsabraw.com
MADE IN USA



Questions?

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