

Publicly Funded Mine Drainage Treatment or Abatement Project Information Sheet
General Project Information

PA-301

Project Name and or No.: Swamp Area Passive Treatment System

Location: Municipality and County: Leidy & Noyes Townships, Clinton County

Watershed: Kettle Creek Watershed

USGS Quadrangle: Renovo West

Latitude and Longitude: Latitude: 41.34388 Longitude: -77.85052

Contact Information

Contact Organization: Trout Unlimited

Contact Person: Amy Wolfe

Contact Address: 18 E. Main St, Suite 3

Lock Haven, PA 17745

Contact Telephone Number: (570) 748-4901

Contact Email: awolfe@tu.org

Organization Currently Responsible For Project Operations, Monitoring and Maintenance

Is this organization different from Contact Organization? no

Organization Name: _____

Organization Contact Name: _____

Organization Contact Address: _____

Organization Telephone Number: _____

Organization Email: _____

Site Information

Who owns the property the project is constructed upon?
DCNR Bureau of Forestry

Driving Directions to the Project Site (from an easily identifiable reference point):

From Rt 120, turn right onto Kettle Creek Road. Turn right into state forest lands immediately past the bridge that spans Twomile Run. Take right at first intersection. Stay straight on forestry road and turn left (will have to almost double-back on this road) onto newer access road for gas pipeline construction. Follow access road short distance to end where gas pipeline construction staging area is located. Passive treatment system will be constructed right across pipeline where area has been clearcut.

Special instructions for entry to the site (gates, keys, notifications or permissions, etc.):

No special instructions.

- | | | |
|---|---|--|
| Is there a perpetual access agreement for monitoring and O&M? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the site readily accessible (by 2WD vehicle)? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Was project completed as part of an overall watershed restoration plan? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Is the plan available electronically? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Could you provide the DEP a copy of the plan? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Is a copy of the plan attached? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |

Publicly Funded Mine Drainage Treatment or Abatement Project Information Sheet

Project Description (Describe the treatment system including each individual component):

As of this time 3/20/2009, work on the full design has not yet started due to issues with the DCNR Bureau of Forestry. However, conceptual plans for the system are as follows. The Swamp Area passive treatment system will consist of a clean-water by-pass channel, a flow control vault, two parallel vertical flow ponds, a settling/mixing pond, and a polishing wetland. On average, 240 pounds per day of acidity will be removed. The system will be capable of removing up to 650 pounds per day of acidity under high flows, which represents the 95th percentile loading from the site.

Pre-Construction Discharge Flow and Monitoring Data

Is data available electronically? Yes No

In what format? Microsoft Excel Access Database Other (specify) _____

Indicate how flow was measured: Bucket and stopwatch

Indicate laboratory that analyzed samples (or whether field kits were used)

DEP and G&C Laboratory, HACH field kits used for field pH and alkalinity

Could you provide this data to the DEP? Yes No

Is a copy of the data attached? Yes No

Pre-Construction Receiving Stream Flow and Monitoring Data

Is data available electronically? Yes No

In what format? Microsoft Excel Access Database Other (specify) _____

Indicate how flow was measured: Flow meter

Indicate laboratory that analyzed samples

DEP and G&C Laboratory

Were any biological or fish surveys completed? Yes No

Could you provide this data to the DEP? Yes No

Is a copy of the data attached? Yes No

Treatment System Design Information and Criteria

Who or what firm completed project design? (Include name, address, phone, email and contact person, if available): Hedin Environmental

195 Castle Shannon Blvd.

Pittsburgh, PA 15228

Bob Hedin - bhedin@hedinenv.com, (412) 571-2208

Are digital photographs of the site before, during and/or after construction available? Yes No

Was there a Specific Restoration or Treatment Goal for this treatment system? Yes No

If yes, please describe the goal: The specific goal for this treatment system is to abate the first major source of AMD pollution to Twomile Run. Other sources of AMD to Twomile Run that can be collected and treated are already being treated. Following construction of this treatment system, the only remediation activities that remain for the Twomile Run watershed are remining and reclamation activities in order to address baseflow contamination.

What is the Design Flow Rate? _____

Other design criteria (retention time, acidity loading or removal rate, metals loading or removal rate, alkalinity generation rate, etc.) _____

Does the treatment system take all of the flow or is some of the flow bypassed?

Publicly Funded Mine Drainage Treatment or Abatement Project Information Sheet

Plans and Specifications:

As-Bid Project Drawings and Technical Specifications

Is this information available electronically? Yes No

Could you provide the DEP a copy of the plan? Yes No

Is a copy attached? Yes No

As-Built Drawings

Is this information available electronically? Yes No

Could you provide the DEP a copy of the plan? Yes No

Is a copy attached? Yes No

Construction and Project Funding Information

What year was the project constructed? _____

When (specific date) did project construction begin? _____

When (specific date) was project construction completed? _____

Who was the Construction Contractor? (Name, Address, Phone, email, contact person) _____

When (specific date) did the treatment system go on-line? _____

Primary Funding Partners, and funding provided:

Source	True or false	Amount
Title IV, Appalachian Clean Streams	<u>true</u>	<u>30,383</u>
PADEP Growing Greener	<u>true</u>	<u>595,000</u>
10% AMD Set Aside Funds	<u>false</u>	_____
EPA Section 319	<u>false</u>	_____
OSM Watershed Cooperative Assistance Program	<u>true</u>	<u>100,000</u>
NRCS	<u>false</u>	_____
EPA Watershed Protection	<u>false</u>	_____
USCOE	<u>false</u>	_____
University	<u>false</u>	_____
Private/Foundation	<u>true</u>	<u>38,052</u>

How or by whom was treatment system construction funded or other funding not included in the table?

Source	Amount
<u>Office of Surface Mining Cooperative Agreement with Trout Unlimited</u>	<u>14,100</u>
<u>Hedin Environmental (reduced consulting fees)</u>	<u>10,795</u>
<u>DCNR Bureau of Forestry (in-kind construction)</u>	<u>10,485</u>

Post Construction Operation, Monitoring and Maintenance

Is there a Sampling and Monitoring Plan? Yes No

Is the plan available electronically? Yes No

Is a copy of the plan attached? Yes No

Is treatment system currently being sampled and monitored? Yes No

If so, by whom? _____

Approximately how many hours per year are spent doing O,M&M for this system? _____

Where are samples being analyzed? (Name, Address, Phone, email, contact person) _____

Publicly Funded Mine Drainage Treatment or Abatement Project Information Sheet

If DEP Lab is being used, what is the project ID and the Sample Information System (SIS) monitoring point IDs?

- Is there an Operation and Maintenance Plan? Yes No
- Is the plan available electronically? Yes No
- Could you provide the DEP a copy of this information? Yes No
- Is a copy of the information attached? Yes No

Comments on the treatment system: _____

Post- Construction Discharge Flow and Monitoring Data

- Is the data available electronically? Yes No
- In what format? Microsoft Excel Access Database Other(specify) _____
- Indicate how flow was measured: _____
- Could you provide the DEP a copy of this information? Yes No
- Is a copy of the information attached? Yes No

Post-Construction Receiving Stream Flow and Monitoring Data

- Is the data available electronically? Yes No
- In what format? Microsoft Excel Access Database Other(specify) _____
- Indicate how flow was measured: _____
- Could you provide the DEP a copy of this information? Yes No
- Is a copy of the information attached? Yes No
- Were any biological or fish surveys that were completed on the receiving stream? Yes No

Treatment System Maintenance and/or Rehabilitation

- Has rehabilitation work been performed at the site? Yes No
- True(yes) or false(no): _____

If yes, please list the rehabilitation activity. _____

If yes, please list the date of rehabilitation. _____

If yes, please list the rehabilitation cost. _____

What routine or non-routine maintenance issues have arisen since system was put online?

How was maintenance work funded? _____

What routine or non-routine maintenance is currently needed or anticipated in the next 1-3 years?

Other Comments

Person(s) Completing this Form (Name, Address, Phone, email, Date Completed):

Publicly Funded Mine Drainage Treatment or Abatement Project Information Sheet

Is there any other person, company or organization that should be contacted for information about this treatment system or the information requested in this form?

(Include Name, Address, Phone, email, etc):
