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

Project Name and or No.:ROCL	(Y RIDGE SOUTH ROARING RUN (JOLLER)	
PA-0	55	
Location: Municipality and County:	HUNTINGDON	
Watershed: ROARING RUN		
USGS Quadrangle: SALTILLO		
Latitude and Longitude: 40.203333	300000001 -78.06805599999999	
Contact Information		
Contact Organization:	PADEP BAMR	
Contact Person:	PAM MILAVEC and P. J. Shah	
Contact Address:	286 INDUSTRIAL PARK ROAD	
	EBENSBURG	
	PA	
_	<u> 15931                                     </u>	
Contact Telephone Number:	8144721800	
Contact Email:	pmilavec@state.pa.us / pshah@state.pa.us	
	L. D. Control Manifesting and Maintenance	

## Organization Currently Responsible For Project Operations, Monitoring and Maintenance

Is this organization different from Contact Organization? \_\_\_\_True\_ Organization Name: Huntingdon County Conservation District and PA Game Commission

Andy Petterson Organization Contact Name:

Organization Contact Address:

10605 Raystown Road, Huntingdon, PA 16652

Organization Telephone Number:

Organization Email:

814-627-1626\_\*114 hccd@papower.net

#### **Site Information**

Who owns the property the project is constructed upon?

PA Game Commission and a very small portion owned by the East Broadtop Railroad and Coal Company.

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

From Ebensburg, Pa. Take 22 East, I-99 south, take exit for Roaring Spring and take state route 36 south, state route 26 north, state route 994 east and drive 14.2 miles and the site is on the right. There is a locked gate and you need a key from Game Commission to open the gate. The site is about 1/4 of a mile on the left.

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

There is a locked gate and you need a key from Game Commission to open the gate. The site is about ¼ of a mile on the left.

Is there a perpetual access agreement for monitoring and O&M? Is the site readily accessible (by 2WD vehicle)? Was project completed as part of an overall watershed restoration plan? Is the plan available electronically?

or or

No No or No or

Could you provide the DEP a copy of the plan? Is a copy of the plan attached?

or

or No or No

Yes or

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

A treatment system schematic is shown in Appendixes A and B.

• The AMD discharge from the sealed deep mine entry is collected in Pond No. 1. The raw AMD discharge is sampled at the end of the mine drain pipe (a 15 inch diameter smooth lined

corrugated polyethylene (SLCPE) pipe).

• Pond 1 outflow is conveyed by Pipe No. 1 (a 15 inch diameter SLCPE pipe) approximately 390 linear feet to an eight feet diameter manhole. The manhole divides the raw AMD flow between SAP 1A and SAP 1B via Pipe No. 2 and Pipe No. 3 (eight inch (8") diameter Schedule 40 PVC pipes) and also has an emergency overflow to prevent overloading the SAPS units.

• The influent flow to the SAPS units can be measured at the outlet end of Pipe No. 2 and Pipe No. 3. Total system inflow consists of adding the flow from Pipe No.'s 2 and 3 and any

overflow from the manhole.

• SAP 1A and SAP 1B both drain into Pond 2 via six inch diameter perforated Schedule 40 PVC pipes that feed into eight inch diameter Schedule 40 PVC drain pipes with in-line flow control structures. The SAPS discharge flows can be measured and sampled at the outlet ends of the drain pipes.

The emergency spillway for Pond 2 discharges into SAP 3. SAP3 inflow is sampled at the

emergency spillway for Pond 2.

• SAP 3 drains into Abandoned Wetland No. 3 via six inch diameter perforated Schedule 40 PVC pipes that feed into an eight inch diameter Schedule 40 PVC drain pipe with an in-line flow control structure. SAP 3 discharge flow can be measured and sampled at the outlet end of the drain pipe.

Abandoned Wetland No. 3 collects mine drainage from up to three different areas: treated AMD from SAP 3; any raw AMD overflow from the manhole; and the raw AMD discharge

from the second deep mined area discovered during construction.

• Abandoned Wetland No. 3 discharges into a rip-rap channel to Pond 3. The treatment system discharge flow can be measured and sampled at the outlet end of the riser pipe spillway in Pond 3.

Pre-Construction Discharge Flow and Monitoring Data Is data available electronically? In what format? Microsoft Excel Access Database Other(specify) N/A Indicate how flow was measured:	Yes	or	No
Indicate laboratory that analyzed samples (or whether field kits were used)			
Could you provide this data to the DEP?	Yes	or	No
Is a copy of the data attached?	Yes	or	Νœ
Pre-Construction Receiving Stream Flow and Monitoring Data Is data available electronically? In what format? Microsoft Excel Access Database Other(specify)	Yes	or	No
Indicate how flow was measured:			
Indicate laboratory that analyzed samples	· 		
Were any biological or fish surveys completed?	Yes	or	No

Could you provide this data to the DEP? Is a copy of the data attached?



#### Treatment System Design Information and Criteria

Who or what firm con	npleted project design? (Include name, address, phone, email and contact
person, if available):	DAN SAMMARCO
	PADEP BAMR
	8144721800

Are digital photographs of the site before, during and/or after construction available? You Was there a Specific Restoration or Treatment Goal for this treatment system? If yes, please describe the goal:

es or Ne	
or No	
	_

What is the Design Flow Rate? About 80 GPM

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

#### PROJECT DESIGN INFORMATION:

- The passive treatment system consists of three (3) wetlands or SAPS units and three (3) ponds.
- Design life of twenty (20) years with a design flow rate of 150 gallons per minute (gpm)
- Influent pH ranges from 2.9 to 3.3
- Influent flow ranges from 9 to 425 gpm
- Influent acidity concentration ranges from 140 to 290 mg/l
- Influent iron concentration ranges from 8 to 87 mg/l
- Influent aluminum concentration ranges from 8 to 19 mg/l

Does the treatment system take all of the flow or is some of the flow bypassed? Some of the flow is by-passed in a open lime stone channel.

#### Plans and Specifications:

As-Bid Project Drawings and Technical Specifications

Is this information available electronically?
Could you provide the DEP a copy of the plan?
Is a copy attached? Bid document

As-Built Drawings

Is this information available electronically? Could you provide the DEP a copy of the plan? Is a copy attached?

Yes or Yes or Yes or

or

Yes or

Yes



#### **Construction and Project Funding Information**

What year was the project constructed? \_\_\_\_\_\_1999

When (specific date) did project construction begin?

May 5, 1998

When (specific date) was project construction completed? October 8, 1999

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

#### E. M. Brown, Inc., P. O. Box 767, Clearfield, PA. 16830

When (specific date) did the treatment system go on-line? October 8, 1999

Primary Funding Partners, and funding provided:

Source	True or false	Amount
Title IV, Appalachian Clean Streams	False	\$ .00
PADEP Growing Greener	False	\$ .00
10% AMD Set Aside Funds	True	\$731,564.00
EPA Section 319	False	\$ .00
OSM Watershed Cooperative Assistance Program	False	\$ .00
NRCS	False	\$ .00
EPA Watershed Protection	False	\$ .00
USCOE	False	\$ .00
University	False	\$ .00
Private/Foundation	False	\$ .00

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

Source	Amount
	\$ .00
	\$ .00

#### Post Construction Operation, Monitoring and Maintenance

Is there a Sampling and Monitoring Plan?

Is the plan available electronically?

Is a copy of the plan attached?

Is treatment system currently being sampled and monitored?

If so, by whom?

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



or No

or No

or No

Publicly Funded Mine Drainage Treatment or Abatement Project Information Where are samples being analyzed? (Name, Address, Phone, email, contact per	rmation	She	et
If DEP Lab is being used, what is the project ID and the Sample Information Sy		ra)	
monitoring point IDs?	Asiem (2)	)	
Is there an Operation and Maintenance Plan? Is the plan available electronically?		or	No No
Could you provide the DEP a copy of this information?  Is a copy of the information attached? <u>Maintenance Agreement</u>			No No
Comments on the treatment system:			<u>.</u>
<ol> <li>After 2001, data collection for this site is poor and incomplete m to do a meaningful system analysis. Thirty-two (32) sample date nine years from 1/31/1999 to 12/20/2007. On some of these sam various sampling points of the system were not sampled. During period (from 1999 to 2007), only six (6) flow measurements and flows of the system influent are recorded from 3/15/2000 to 8/14 that had leakage problems from the start. The last recorded system measurement was more than seven (7) years ago on 8/22/2001.</li> <li>Influent water quality appears to have improved over time since the Area B and construction of the mine seal (see Appendixes H and System performance appears to have decreased after 2001-2002 the without flow measurements, one has no way of knowing how musinfluent is being lost. The system effluent being sampled may conthe lower mine discharge that is not being treated. The system effluence and the system effluence are decreased from a high of 7.7 on 5/23/2000 down to 3.1 on 12/20/2000.</li> </ol>	es are shoupling dates this same two (2) of 1/2003 on 1/	estinatione be systematically	me mated ystem low ion of ut stem y of
Post-Construction Discharge Flow and Monitoring Data  Is the data available electronically? Appendix C for monitoring points  In what format? Microsoft Excel yes		or ] or ] or i	No 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? Is a copy of the information attached? Were any biological or fish surveys that were completed on the receiving stream.	Yes o	r	No No

# Publicly Funded Mine Drainage Treatment or Abatement Project Information Sheet Treatment System Maintenance and/or Rehabilitation

Has rehabilitation work been performed at the site?	Yes	or	No
True(yes) or false(no): False			
If yes, please list the rehabilitation activity. 2005 EPA 319 grant to evaluate perfect	ormance desig	n reha	<u>ab</u> 
If yes, please list the date of rehabilitation. N/A			
If yes please list the rehabilitation cost. \$ .00			
What routine or non-routine maintenance issues have arisen since system w	as put onlin	e?	
See the attached report			
How was maintenance work funded?			
What routine or non-routine maintenance is currently needed or anticipated	in the next	1-3 y	ears?
· · · · · · · · · · · · · · · · · · ·			-

#### **Other Comments**

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

P. J. Shah, P. E., Permit Chief, Bureau of Abandoned Mine Reclamation, Cambria Office 286 Industrial Park Road, Ebensburg, PA 15931 Phone: 814-472-1800, E-mail: <u>pshah@state.pa.us</u> Date completed: February 12, 2009

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):

Yes. BAMR Cambria task force group, headed by Jeff Westrick, P. E.

Publicly Funded Mine Drainage Trea	tment or Abatement Project Information Shee
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Appendix A.doc



Appendix B.doc



Bid document.pdf



Maintenance Agreement.doc



Roaring Run Monitoring .xls



ROCKY RIDGE REPORT prelim doc



Appendix C.doc