

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION **BUREAU OF ABANDONED MINE RECLAMATION**

AMD Treatment System Form for Datashed AML/AMD Remediation Projects

Project Name: SR81 (Slippery Rock	Passive Treatm	ent R	ehab (& Mair	ntenance	e)	AMLIS	S #: <u>PA 7</u>	<u>′131 & 7134</u>
Latitude: 41.099932	Longitude:	<u>-79.</u>	85906	i		Det	ermined by	y GPS?	Y⊠N□
Watershed Name: Slippery Rock Cre	eek		Rece	iving S	Stream:	Slippe	ery Rock C	reek	
USGS Quadrangle: Hilliards, PA				_ (County:	<u>Butle</u>	r		
Township/City: Washington Township	р								
Contact Person/Organization:									
Name:			Ac	ldress:					
Cliff Denholm/Stream Restoration Inc	corporated		PC) Box	837				
Telephone Number + Area Code:			SI	ppery	Rock, P	A 1605	57		
(724)-279-5080									
Email Address:									
sri@streamrestorationinc.org									
Organization responsible for opera	ation/maintena	nce o	f proje	ect if c	different	than a	above:		
Name:				ldress:					
Telephone Number + Area Code:									
Email Address:									
			_						
Source of AMD:									
Underground Sui	rface		Re	fuse]	Oil-Gas	well	
Treatment System Information:						,			
Year Re- Constructed: 2023			Total (Capital	Cost:	\$ 249,	348		
	Y N Date ⊠ □ Origi		/stem:	20		Costs C Rehabil	Of litation:	\$ 339,9	48.10
Describe Rehabilitation Activities: Se	e as-built plan a	ınd fin	al rep	ort on	Datashe	d for a	dditional d	etail. The	system
was expanded by adding an additional	al anoxic limest	one di	rain ar	ıd leng	thening	the exi	sting aerol	bic wetla	nd. A z-pile
moat was constructed to convey water	er from the cons	tructe	ed wetl	and to	the nati	ıral we	tland while	promoti	ng settling
of solids. Part of the natural wetland i	is utilized for oxi	datior	n/remc	val of	metals,	so a ro	ck distribut	tion bern	า was
added to the middle of the wetland to	spread flow.								
If this project includes land reclamation reclamation? \$	on as more thar	า 50%	of th	e total	l cost, w	/hat is	the estima	ted cost	of the land

Primary Funding Partners	and Fund	ing Provide	ed			
Source		Amount				
Title IV, Appalachian Clean Streams						
			\$215,251.44			
PADEP Other				-,		
PADCNR						
AMD Set Aside Funds						
EPA Section 319						
OSM Watershed Cooperati	ve Assistan	ce Program		\$63	3,796.73	
NRCS				•	,	
EPA Watershed Protection			ĺ			
USCOE			ĺ			
University						
Bond Forfeiture						
Reclamation in Lieu of Pen	alty					
Consent Order						
Foundation for PA Watersh	eds			\$7,	500	
Private/Foundation						
In-kind Contributions				\$53	3,399.93	
Other Funding Partner (Ple	ase note)					
Treatment Technology: S	Select all th	at apply at	the si	te.		
# of Contain Siphon						
	Treatment					
Treatment System	Cells	Y	N	<u>9</u>	Comments	
Typical methods	33.13			1		
, , , , , , , , , , , , , , , , , , ,				•	One aerobic wetland is constructed and was	
Aerobic Wetland	2			1	expanded in the rehab project. The other wetland is	
		_			a natural existing wetland. See As-built	
Anaerobic Wetland					•	
					ALD1 (1,286 tons limestone after rehab) was	
ALD	2]	present prior to reconstruction, while ALD2 (2,576	
					tons limestone) was installed during rehabilitation.	
Limestone Sand Dosing						
Diversion Well/Mechanical				ı l		
Limestone Addition				'		
Oxic Limestone Drain				1		
(OLD)				'		
Oxic Limestone Channel				1		
(OLC)						
Low pH Fe Oxidation						
Channel						
Limostono Dond (Cnocific						
Limestone Pond (Specify				ıl		
UP, DF or HF under						
UP, DF or HF under comments)]		
UP, DF or HF under comments) SAP (Specify UP, DF or]		
UP, DF or HF under comments) SAP (Specify UP, DF or HF under comments)]		
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UP, DF or HF under comments) SAP (Specify UP, DF or HF under comments) Bio-Reactor (Specify UP, DF or HF under comments) VFP (Specify UP, DF or HF under comments) Manganese Removal Bed	1				Part of the settling pond was converted into the new	

UF = Upflow

DF = Downflow (like in a traditional SAP)

HF = Horizontal Flow

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Other Methods		Comments	
Well Plugging			
Steel Slag			
Land Reclamation to cover to prevent water infiltration.	xic material or		
In-Situ Treatment (Include typ	e under comments)		
Chemical Addition Treatment Chemical used under comme	,		
Lime Doser (Include Chemica comments)	l used under		
Mechanical Aeration (Include comments)	type under		
Others (discuss in comments)			
UF = Upflow	DF = Downflow (like	e in a traditional SAP)	HF = Horizontal Flow

Project Designer:				
BioMost, Inc.				
Organization:		1	elephone N	lumber + Area Code:
See above.		7	24-776-01	61
Water Information:				
	Inflow (ALD)	Outflow (N	WL)	Load Reductions (Ibs/day)
Flow (gpm)	See Datashed	See Datashed		See Datashed
рН				
Total Iron (mg/L)				
Ferrous Iron (mg/L)				
Hot Acidity (mg/L)				
Alkalinity (mg/L)				
Total Aluminum (mg/L)				
Total Manganese (mg/L)				
Date of Collection				

If more detailed water quantity and quality data is available, please provide the following:				
Contact:	Uploaded to datashed.org			
Telephone:				
Email:				

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If receiving stream or macroinvertebrate information is available please provide the following:						
Contact:						
Telephone:						
Email:						
	Comments: (specific to O&M performance; impact on receiving stream. Include date of inspection and name and telephone number of person making comment)					
Date		Name	Telephone Number + Area Code			
Comment: As-Builts and OM&R Plan posted on www.datashed.org						

Any links specific to this watershed that should be included?		
Web Address	See Datashed.	

Send to your DEP Project Advisor with your Final Report Paperwork: One <u>digital</u> copy of the AMD Treatment System Form for Datashed, the Operational, Maintenance and Repair/Replacement (O, M & R) Plan that includes the "as-built" drawings and site schematics in PDF, and any water quality information in EXCEL format.