

AMD TREATMENT SYSTEM FORM FOR DATASHED AML/AMD REMEDIATION PROJECTS

Project Name: Aluminade AMD Treatment Project AMLIS #: PA000304
 Latitude: N 40-56'-38.5" Longitude: W 79-34'-47.7" Determined by GPS? Y N
 Watershed Name: Huling Run Receiving Stream: UNT to Huling Run
 USGS Quadrangle: East Brady County: Armstrong
 Township/City: Washington TWP

Contact Person/Organization:							
Name:				Address:			
Maria Sorce				120 S. Grant Ave			
Telephone Number + Area Code:				Suite 2			
724-548-3425				Kittanning, PA 16201			
Email Address:							
mcsorce@co.armstrong.pa.us							
Organization responsible for operation/maintenance of project if different than above:							
Name:				Address:			
Telephone Number + Area Code:							
Email Address:							
Source of AMD:							
Underground	<input checked="" type="checkbox"/>	Surface	<input type="checkbox"/>	Refuse	<input type="checkbox"/>	Oil-Gas well	<input type="checkbox"/>
Treatment System Information:							
Year Constructed: 2018				Total Capital Cost: \$ 151,565.00			
Was this a Rehabilitation Project?		Y <input type="checkbox"/>	N <input checked="" type="checkbox"/>	Date of Original System:		Costs Of Rehabilitation: \$	
Describe Rehabilitation Activities:							

If this project includes land reclamation as more than 50% of the total cost, what is the estimated cost of the land reclamation? \$ _____

Primary Funding Partners and Funding Provided	
Source	Amount
Title IV, Appalachian Clean Streams	
PADEP Growing Greener	151,565.00
PADEP Other	
PADCNR	
AMD Set Aside Funds	
EPA Section 319	
OSM Watershed Cooperative Assistance Program	
NRCS	
EPA Watershed Protection	
USCOE	
University	
Bond Forfeiture	
Reclamation in Lieu of Penalty	
Consent Order	
Foundation for PA Watersheds	
Private/Foundation	
In-kind Contributions	58,583.46
Other Funding Partner (Please note)	5,000.00 (Trout Unlimited)

Treatment Technology: Select all that apply at the site.

Treatment System	# of Treatment Cells	Contain Siphon Automatic Flushing		Comments
		Y	N	
Typical methods		<input type="checkbox"/>	<input type="checkbox"/>	
Aerobic Wetland		<input type="checkbox"/>	<input type="checkbox"/>	
Anaerobic Wetland		<input type="checkbox"/>	<input type="checkbox"/>	
ALD		<input type="checkbox"/>	<input type="checkbox"/>	
Limestone Sand Dosing		<input type="checkbox"/>	<input type="checkbox"/>	
Diversion Well/Mechanical Limestone Addition		<input type="checkbox"/>	<input type="checkbox"/>	
Oxic Limestone Drain (OLD)		<input type="checkbox"/>	<input type="checkbox"/>	
Oxic Limestone Channel (OLC)		<input type="checkbox"/>	<input type="checkbox"/>	
Low pH Fe Oxidation Channel		<input type="checkbox"/>	<input type="checkbox"/>	
Limestone Pond (<i>Specify UP, DF or HF under comments</i>)	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	DF
SAP (<i>Specify UP, DF or HF under comments</i>)		<input type="checkbox"/>	<input type="checkbox"/>	
Bio-Reactor (<i>Specify UP, DF or HF under comments</i>)		<input type="checkbox"/>	<input type="checkbox"/>	
VFP (<i>Specify UP, DF or HF under comments</i>)		<input type="checkbox"/>	<input type="checkbox"/>	
Manganese Removal Bed		<input type="checkbox"/>	<input type="checkbox"/>	
Pyrolusite Bed		<input type="checkbox"/>	<input type="checkbox"/>	
Settling/oxidation Pond		<input type="checkbox"/>	<input type="checkbox"/>	

UF = Upflow

DF = Downflow (like in a traditional SAP)

HF = Horizontal Flow

Other Methods	Comments
Well Plugging	
Steel Slag	
Land Reclamation to cover toxic material or prevent water infiltration.	
In-Situ Treatment <i>(Include type under comments)</i>	
Chemical Addition Treatment Plant <i>(Include Chemical used under comments)</i>	
Lime Doser <i>(Include Chemical used under comments)</i>	
Mechanical Aeration <i>(Include type under comments)</i>	
Others <i>(discuss in comments)</i>	

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Project Designer:			
Jim Szalankiewicz			
Organization:			Telephone Number + Area Code:
Szalankiewicz Engineering, PE			724-354-4852
Water Information:			
	Inflow	Outflow	Load Reductions (lbs/day)
Flow (gpm)	24.0	24.0	
pH	3.13	7.33	
Total Iron (mg/L)	1.531	.766	10.4
Ferrous Iron (mg/L)			
Hot Acidity (mg/L)	92.2	-136.4	50.7
Alkalinity (mg/L)	0	+151.2	26.5
Total Aluminum (mg/L)	5.202	<0.5	18.6
Total Manganese (mg/L)	1.305	1.077	1.17
Date of Collection	05-07-2019	05-07-2019	

If more detailed water quantity and quality data is available, please provide the following:	
Contact:	Maria Sorce
Telephone:	724-548-3425
Email:	mcsorce@co.armstrong.pa.us

If receiving stream or macroinvertebrate information is available please provide the following:		
Contact:	Maria Sorce	
Telephone:	724-548-3425	
Email:	mcsorce@co.armstrong.pa.us	
Comments: <i>(specific to O&M; performance; impact on receiving stream. Include date of inspection and name and telephone number of person making comment)</i>		
Date	Name	Telephone Number + Area Code
Comment:		

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

Send to your DEP Project Advisor with your Final Report Paperwork: One digital copy of the AMD Treatment System Form for Dashed, 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.