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pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CONSERVATION AND RESTORATION

AMD Treatment System Form for Datashed

AML/AMD Remediation Projects

Project Name: Kentucky Hollow Passive AMD Treatment System AMLIS #: _____

Latitude: 40.4154 Longitude: -80.1801 Determined by GPS? Y ☒ N ☐

Watershed Name: Robinson Run Receiving Stream: UNT to Robinson Run

USGS Quadrangle: Oakdale County: Allegheny

Township/City: North Fayette Townshio

Contact Person/Organization:	
Name:	**Address:**
Keith Kaiser, Pittsburgh Botanic Garden	799 Pinkertons Run Road
Telephone Number + Area Code:	
412-444-4464	
Email Address:	
kkaiser@pittsburghbotanicgarden.org	
Organization responsible for operation/maintenance of project if different than above:	
Name:	**Address:**
Telephone Number + Area Code:	
Email Address:	

Source of AMD:							
Underground	☒	**Surface**	☐	**Refuse**	☐	**Oil-Gas well**	☐

Treatment System Information:							
Year Constructed:	2019			**Total Capital Cost:**	**$** $497,007		
Was this a Rehabilitation Project?	**Y** ☐	**N** ☒	**Date of Original System:**		**Costs Of Rehabilitation:**	**$**	
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	$369,007
PADEP Other	
PADCNR	
AMD Set Aside Funds	
EPA Section 319	
OSM Watershed Cooperative Assistance Program	$100,000
NRCS	$
EPA Watershed Protection	
USCOE	
University	
Bond Forfeiture	
Reclamation in Lieu of Penalty	
Consent Order	
Foundation for PA Watersheds	$18,000
Private/Foundation	
In-kind Contributions	$
Other Funding Partner (Please note)	$10,000 (Allegheny County Conservation District

Treatment Technology: Select all that apply at the site.

Treatment System	# of Treatment Cells	Contain Siphon Automatic Flushing Y	Contain Siphon Automatic Flushing N	Comments
Typical methods		☐	☐	
Aerobic Wetland		☐	☐	
Anaerobic Wetland		☐	☐	
ALD		☐	☐	
Limestone Sand Dosing		☐	☐	
Diversion Well/Mechanical Limestone Addition		☐	☐	
Oxic Limestone Drain (OLD)		☐	☐	
Oxic Limestone Channel (OLC)		☐	☐	
Low pH Fe Oxidation Channel		☐	☐	
Limestone Pond *(Specify UP, DF or HF under comments)*	2	☐	☒	Two Drainable Limestone Beds (DLB) each equipped with an AgriDrain solar-powered Smart Drainage System (SDS) for automatic flushing. Each cell is downflow (DF).
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		☐	☐	
Pyrolusite Bed		☐	☐	
Settling/oxidation Pond	1	☒	☐	Flush pond/sludge settling pond

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 *(Include type under comments)*	
Chemical Addition Treatment Plant *(Include Chemical used under comments)*	
Lime Doser *(Include Chemical used under comments)*	
Mechanical Aeration *(Include type under comments)*	
Others *(discuss in comments)*	

UF = Upflow DF = Downflow (like in a traditional SAP) HF = Horizontal Flow

Project Designer:	
Hedin Environmental	
Organization:	**Telephone Number + Area Code:**
Hedin Environmental	412-571-2204

Water Information:

	Inflow	Outflow	Load Reductions (lbs/day)
Flow (gpm)	89.7	89.7	
pH	3.42	7.39	
Total Iron (mg/L)	0.7	0.1	0.7
Ferrous Iron (mg/L)			
Hot Acidity (mg/L)	88	-175	283
Alkalinity (mg/L)	0	183	
Total Aluminum (mg/L)	6.4	0.7	6.1
Total Manganese (mg/L)	0.8	0.1	0.7
Date of Collection	12/20/19	12/20/19	12/20/19

If more detailed water quantity and quality data is available, please provide the following:	
Contact:	
Telephone:	
Email:	

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: _____

_____

_____

_____

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 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.

After DEP Project Advisor has approved your Final Report Paperwork, send to the Bureau of Conservation and Restoration: One digital copy of the Datashed form in Word, the Operational, Maintenance and Repair/Replacement (O, M & R) Plan that includes the "as-builts" drawings and site schematics in PDF, and any water quality information in EXCEL format to the address under Final Report Guidelines.