

Publicly Funded Mine Drainage Treatment or Abatement Project Information Sheet

General Project Information

Project Name and or No.: WELLS CREEK SKERIA # 6 PA-023
Location: Municipality and County: SOMERSET
Watershed: WELLS CREEK
USGS Quadrangle: STOYSTOWN
Latitude and Longitude: 40.433332999999998 -78.985556000000003

Contact Information

Contact Organization: WELLS CREEK WATERSHED ASSOCIATION
Contact Person: THURMAN KORNS
Contact Address: PO BOX 39, FRIEDENS, PA, 15541
Contact Telephone Number: 8148935602
Contact Email: tkorns@shol.com thurmanKorns@gmail.com

Organization Currently Responsible For Project Operations, Monitoring and Maintenance

Is this organization different from Contact Organization? False
Organization Name: WELLS CREEK WATERSHED ASSOCIATION
Organization Contact Name: THURMAN KORNS
Organization Contact Address: 1019 POMPEY HILL ROAD, STOYSTOWN, PA, 15563
Organization Telephone Number: 8148935602
Organization Email: tkorns@shol.com

Site Information

Who owns the property the project is constructed upon?
Betty + Elwood Brown, Mr. Brown, recently passed away

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

Turn onto Wapans Station Rd off Lister Rd. Adams Station Rd becomes Wells Creek Rd System is on the left about 1/2 mile.

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

It is not recommended to enter with vehicle. Easily walkable

Is there a perpetual access agreement for monitoring and O&M? Yes or No
Is the site readily accessible (by 2WD vehicle)? Park @ gate Yes or No
Was project completed as part of an overall watershed restoration plan? Yes or No
Is the plan available electronically? Yes or No
Could you provide the DEP a copy of the plan? Yes or No
Is a copy of the plan attached? Yes or No

Publicly Funded Mine Drainage Treatment or Abatement Project Information Sheet
 Project Description (Describe the treatment system including each individual component):

Q6 treatment system is a ALO designed to treat a maximum of 600 GPM of AMD.

Pre-Construction Discharge Flow and Monitoring Data

Is data available electronically? Yes or No
 In what format? Microsoft Excel N/A Access Database Other(specify)
 Indicate how flow was measured: Constructed weirs
 Indicate laboratory that analyzed samples (or whether field kits were used)
DEP LAB - Malcolm Crittendon provided data used to design this system.
 Could you provide this data to the DEP? Yes or No
 Is a copy of the data attached? Yes or No

Pre-Construction Receiving Stream Flow and Monitoring Data

Is data available electronically? NO Yes or No
 In what format? Microsoft Excel Access Database Other(specify)
 Indicate how flow was measured: I do not believe flow was measured in Wells Creek.
 Indicate laboratory that analyzed samples DEP LAB

Were any biological or fish surveys completed? PA Boat & Fish Commission Yes or No
 Could you provide this data to the DEP? did complete fish surveys before & after treatment Yes or No
 Is a copy of the data attached? System Construction. Malcolm made the arrangements. I do not recall seeing any report Yes or No

Treatment System Design Information and Criteria

Who or what firm completed project design? (Include name, address, phone, email and contact person, if available): BOB DEASON
EARTHTECH
8142666530

Are digital photographs of the site before, during and/or after construction available? Yes or No
 Was there a Specific Restoration or Treatment Goal for this treatment system? Yes or No
 If yes, please describe the goal: WKWA's goal is to restore a trout fisheries to Wells Creek.
 What is the Design Flow Rate? 363 GPM normal 694 maximum
 Other design criteria (retention time, acidity loading or removal rate, metals loading or removal rate, alkalinity generation rate, etc.) 0-2 km
WADE GALLAHER WAS PROVIDED A FINAL REPORT

Does the treatment system take all of the flow or is some of the flow bypassed?
~~Water~~ bypassed during high flows
WATER IS BYPASSED DURING HIGH FLOWS (WET SEASON). PRE-CONSTRUCTION FLOWS WERE LOWER THAN WHAT HAS BEEN SEEN AFTER CONSTRUCTION.

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 or No

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

Is a copy attached? Yes or No

As-Built Drawings

Is this information available electronically? Yes or No

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

Is a copy attached? Yes or No

Provided to Wade Gallaher
① Bid Documents
② As-Built Documents
You have a copy of your files (DEP) provided at the time of construction + at the conclusion of project.

Construction and Project Funding Information

What year was the project constructed? 2004 *August 2003*

When (specific date) did project construction begin? *Aug 2003*

When (specific date) was project construction completed? ~~April 2005~~ *December 2003*

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

American Mining AmeriKohb Mining - Project was by competitive bid. Invited approximate 10 contractors to bid on project

When (specific date) did the treatment system go on-line? ~~April 2005~~ *December 2003*

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	False	\$.00
EPA Section 319	True	\$80,903.00
OSM Watershed Cooperative Assistance Program	True	\$105,465.00
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? Yes or No

Is the plan available electronically? Yes or No

Is a copy of the plan attached? Yes or No

Is treatment system currently being sampled and monitored? Yes or No

If so, by whom? W C N A

Approximately how many hours per year are spent doing O.M&M for this system? ~~2000~~ *30 hrs/yr*

*Currently flushed Quarterly, (3 times a quarter) May go to monthly.
 Sampled Quarterly. (3 times a quarter)
 Ck at least monthly (5 times a month)*

Publicly Funded Mine Drainage Treatment or Abatement Project Information Sheet

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

Geo Chemical Geochemical Testing, Somerset, PA

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 or No

Is the plan available electronically?

Yes or No

Could you provide the DEP a copy of this information?

DEP Already has it in final report for project

Yes or No

Is a copy of the information attached?

Yes or No

WADE GALLAHER HAS A COPY INCLUDED IN FINAL REPORT DATED 2/28/04

Comments on the treatment system:

Post- Construction Discharge Flow and Monitoring Data

ONGOING PROVIDED TO MALCOLM CRITTENDON

Is the data available electronically?

Yes or No

In what format? Microsoft Excel Access Database

Other (specify)

Indicate how flow was measured: MEASURED w/ 5 GALLON BUCKET

Could you provide the DEP a copy of this information?

Yes or No

Is a copy of the information attached?

Yes or No

ALREADY HAVE

Post-Construction Receiving Stream Flow and Monitoring Data

Is the data available electronically?

Yes or 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 or No

Is a copy of the information attached?

Yes or No

Were any biological or fish surveys that were completed on the receiving stream? Yes or No

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. TRIED TO GET MORE WATER FROM DEEP MINE TO PASS THROUGH TREATMENT SYSTEM INSTEAD OF BY PASSING. COMPLETED EXCAVATION AT THE TOP OF ALD*

If yes, please list the date of rehabilitation. NOV 2008

If yes, please list the rehabilitation cost. \$.00 \$23,000.00 RAISED ELEVATION ON 24" BY PASS

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

• WATER BROKE OUT ALONG HILLSIDE AT ANOTHER LOCATION DUE TO WATER BACKING UP IN DEEP MINE DURING HIGH WATER FLOWS (STORMS/SNOW MELT).

• DEEP MINE UNDER LIES A SURFACE MINE CAUSES WATER TO REPORT TO DISCHARGE VERY FAST. THIS HAS CAUSED PROBLEMS IMMEDIATELY AFTER PUTTING ONLINE

Publicly Funded Mine Drainage Treatment or Abatement Project Information Sheet

How was maintenance work funded?

GROWING GREENER II COUNTY ENVIRONMENTAL INITIATIVE

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):

JOHN PILE 138 SHAULIS ROAD FRIEDENS, PA 15544
(814) 445-3221 (HOME) (814) ~~445~~ 266-6402 (WORK) EARTHTECH
etjdp@atlanticbb.net

THURMAN KORNIS, PRESIDENT, WCWA

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):

WADE GALLAHER, PA DEP
MALCOLM CRITTENDON, PA DEP



Wells Creek Watershed Association

1019 Pompey Hill
Stoystown, PA

"Catch the Vision"
Help Us Restore Our
Cold Water Fishery

Tel. & Fax (814) 893 5602 Cell. 814 442
tkorns@shol.co

March 10, 2009

Mr. Eric Cavazza, P.E., Acting Chief
DEP-Bureau of Abandoned Mine Reclamation
Division of Acid Mine Drainage Abatement
286 Industrial Park Road
Ebensburg, PA 15931

Dear Mr. Cavazza:

On behalf of the Wells Creek Watershed Association (WCWA) Board of Directors this letter is written to elaborate on the available information regarding three installed passive treatment systems for which our organization has served as facilitators for construction and operation/maintenance. The DEP provided forms have been filled out for each site and are included with this submission. We do have significant information available for the Adams # 6 & #7 treatment systems. As far as we know, the information available for the Onstead treatment system is not as complete, but the available data may be sufficient for your needs. Thus, the big question is how the available information will be transferred, if necessary, from our file sources to DEP.

We believe DEP already has most of the information that has been requested. Two sets of construction specifications for the Adams #6 and #7 sites used for the contractor bidding process were sent to Wade Gallaher on March 28, 2003. Final reports for the Adams #6 and #7 systems were sent to Mr. Gallaher on March 3, 2004. The final reports for these sites included detail information regarding the actual construction, as-built drawings of the systems, photographs from start to finish of the construction projects, data used for treatment system design, and operation/maintenance plans.

Due to the lack of involvement by this writer in the Onstead project, the supplied information for the Onstead system is not readily known. However, we believe the same information required by DEP and supplied to them for the two Adams treatment systems would have also been necessary for the Onstead job. Therefore, it is thought DEP has some if not all of the requested information already in it's files. We have included copies of the conceptual design plan view & detail sheets for Onstead with this mailing. A summary of projects write-up has also been attached.

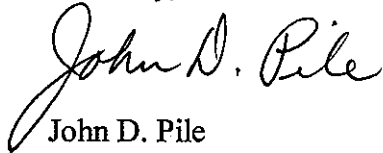
WCWA has been conducting quarterly monitoring for each of the three treatment systems since September 2005. Samples are collected at three locations within the systems, 1)

raw-water, 2) after the treatment cell, and 3) at the end of treatment. The spreadsheets containing this information have already been supplied to your office via Malcolm Crittendon. Please note, flushing of the systems have been completed at least quarterly at the Adams sites and bi-annually at the Onstead system since they were brought on-line. We are currently attempting monthly flushing at the Adams sites to examine if this will allow more water to pass through the treatment cells.

We have recently begun taking samples of the main stem of Wells Creek downstream of the two Adams treatment systems during high flows. This work is being completed in an attempt to observe the impact of bypassing untreated water during higher flows on Wells Creek. At this time, only two samples have been collected.

We are requesting DEP review the information being supplied in this mailing along with their files maintained by Wade Gallaher during the construction of the three treatment systems. If the information found is insufficient, please do not hesitate to contact us. We do have information regarding the treatment systems and want to make sure you obtain what you need. We are also supportive of your initiative to obtain this information while it is still fairly "fresh". At your convenience, we can arrange for a tour at all three of our sites to help familiarized you with our systems. If you have any additional questions, please contact us.

Sincerely,

A handwritten signature in cursive script that reads "John D. Pile". The signature is written in black ink and is positioned above the typed name and title.

John D. Pile
Secretary, WCWA