



## Eastern PA Coalition for Abandoned Mine Reclamation

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### July 2022 Progress Report

#### Highlights:

- EPCAMR staff scanned, georeferenced, mosaicked & digitized mine maps for the **PA DEP MSI MMG** program. QA/QC checked work.
- EPCAMR staff participated in a weekly **PA AML Campaign** call, participated in a **Columbia Co. Watershed Festival** & fish study (5 sites) in **Newport, Nanticoke & Warrior Creeks** w/ **PAFBC**
- Sampled AMD Treatment System on **Nanticoke Cr.** for **EC**, & 3 on **Loyalsock Cr.** for **LCWA**.
- Updated [www.treatminewater.com](http://www.treatminewater.com) and [www.epcamr.org](http://www.epcamr.org); administered G Suite for Nonprofits and social media sites; maintained GobbaDaPile in-house domain server

#### Education, Outreach and Admin.:

- Finished adding recorded AMR Conference Presentations to YouTube and shared them to [www.treatminewater.com](http://www.treatminewater.com) website.
- Created a cardboard and office paper/newspaper containers again as we expect staff to come back at a minimum of 2 days per week. Sorted office paper to be recycled and shredded confidential papers. Made a note to shred papers and envelopes with names and addresses. Also shred torn up pieces of paper.
- Traced a map of quadrangles in northern field that are mosaicked on the white board, QA/QC, and digitized to inform the Mine Mapping Grant team of progress with approximately a year to go on the grant. [MSI]
- EPCAMR management staff hosted a staff meeting to catch each other up on status of grants and help needed. Unfortunately, 45 minutes was taken up by 2 staff complaining about wages and having to return to the office a minimum of 2 days a week. Our board already gave a large bump in wages a few years ago and they have been effectively giving \$1/hour raises annually. The points would have been taken better by management if it was proposed in a more professional and less selfish way. These particular staff members were also 15 and 45 minutes tardy to the meeting, called for a vote of the staff to agree with their issues and demanded their issues be heard at a personnel committee meeting. It was chaotic.
- Started MSI Mine Mapping Grant reimbursements for January to March 2022. Updated mosaic status by quadrangle spreadsheet based in incoming work. [MSI]
- Canceled ZoHo survey as Anne Daymut was done compiling them. Will cancel Zoom Event next month before 8/5.
- Scanned Northern Field Vein Name Correlation that Bobby made when he was an intern and I updated. Sent it and a few other "cipher" maps and lists to help staff with vein name correlation in the Lackawanna Basin. [MSI]
- Continued MSI reimbursements for January to March (1<sup>st</sup> Quarter) 2022 and started April to June (2<sup>nd</sup> Quarter) 2022. Still waiting on Shawnese for timesheets, gave a deadline of 3 days. In the meantime, cataloged georeferenced maps for 1<sup>st</sup> Quarter 2022 into the PA Historic Underground Mine Mapping Inventory System (PHUMMIS). [MSI]

- Submitted MSI reimbursements for 1<sup>st</sup> Quarter 2022 and continued 2<sup>nd</sup> Quarter. cataloged georeferenced maps for 2<sup>nd</sup> Quarter 2022 into PHUMMIS and reviewed scanned entries with Denise.
- Continued MSI reimbursements for April to June 2022 with Shawnese's timesheets and proceeded to add completed work for 1<sup>st</sup> and 2<sup>nd</sup> Quarter 2022 to the MSI Travel Drive. Shawnese uploaded files from her drive to SID folders on X drive from March 2020 to March 2022 which initially caused some chaos as some files were in the wrong folders and extra JPEG image files were there (we don't submit JPEG files). Confirmed with Executive Director that she added them but did not overwrite files. Sorted out the files in the folders for January to June 2022 and added to the MSI Travel drive. Added NMMR TIFF maps to be processed to SID format for the Clinton, Hudson and Stillwater collieries identified in the gap analysis of the Forest City Quad mosaics.
- Submitted a proposal as requested to BlueWave Solar for staff to evaluate an AML site in the Humboldt Industrial Park for solar.
- Submitted MSI reimbursement for 2<sup>nd</sup> Quarter 2022 to PA DEP California District Mining Office (DMO). [MSI]
- Scanned several map figures and a table out of Dr. Ken Klemow's 2002 "Impact of AMD on Newport & Nanticoke Creek..." report to help scope out fish shocking sites for Southern Wyoming Valley National Fish and Wildlife Foundation (NFWF) project. Discussed Brook Trout sampling (chemistry and macroinvertebrates) with Steve for the project based on a minimalist "upstream of confluence" site selection method. This means you sample both streams just upstream of the confluence of a tributary. This also includes one site near the mouth. Calculated 6 sites for the Nanticoke and 8 for the Newport Creek Watershed. [NFWF]
- Scanned marked up maps for the Brook Trout habitat sampling points of Newport and Nanticoke Creeks. Sent to John Levitsky at the Luzerne Conservation District (LCD), Robert and Steve for review.
- Expedited shipping of AMD pigment to West Virginia for Friends of the Cheat as they needed it by Thursday.
- Finished NFWF Quality Assurance Project Plan (QAPP) revision 4 and submitted it to the NFWF consultant and asked that it is sent along to EPA for final approval.
- Catch up on timesheets from April to June 2022.
- Traveled to Catawissa for the Columbia County Watersheds Festival. Tie-dyed t-shirts with about 40 kids and sifted/ground pigment in the King's College Iron Oxide Processor. Broke the 3D printed drive screw when rocks went thru it. Will need to modify the intake hopper to screen those out and ask students to print another auger.

### **Technical Assistance:**

- Finished Nanticoke Quadrangle No. 4 and No. 3 Vein mosaics and sent along with Top Split George and George vein mosaics to Frank for digitizing. Removed BLUE\_TRU-09-16-01 map from Wilkes-Barre West Quadrangle No. 6 Vein mosaic because it was actually a No. 4 Vein map in the Truesdale Bliss area. Georeferenced and added BLUE\_LOO-03-17-01&03 (South Wilkes-Barre & Inman) to Wilkes-Barre West Quadrangle No. 4 Vein mosaic. Georeferenced and added BLUE\_LOO-06-17-01 (Loomis) & BLUE\_LOO-07-17-01 (Inman) to Wilkes-Barre West Quadrangle No.5 Vein mosaic. Georeferenced BLUE\_LOO-06-20 (Loomis) and added it and BLUE\_TRU\_15-02 (Truesdale) to Wilkes-Barre West Quadrangle No. 7 Vein mosaic. [MSI]
- Sampled Loyalsock Upstream, Downstream, & in/out of 3 treatment systems (Connell B Vein, Connell C Vein and Gutten Drift) with Lycoming College professor emeritus, Mel Zimmerman, and 2 interns from the Clean Water Institute. Recorded data in a database for reporting to the Sullivan Conservation District (SCD) & Loyalsock Creek Watershed Association. [LCWA]
- Performed a gap analysis of Forest City Quadrangle 1st draft Vein mosaics sent by Shawnese. Maps missing in most of the vein mosaics from the following collieries: Lackawanna Anthracite - Salem Mountain, Hudson, Clinton, William, Stillwater, Scranton Anthracite, Spencer, Gray Slope, and Pennsylvania Coal. Checked National Mine Map Repository (NMMR) TIFFs. Richmondale, Hudson and William missing from the NMMR collection. Checked OSM

Anthracite Folios: William only had Dunmore No. 3 (N-14W), Hudson has Grassy Island, Top Clark, Dunmore No. 1, Dunmore No. 2, and Dunmore No. 3 (N-14P), Salem Mt. only in Bottom Clark (N-13V), Gray Slope has Dunmore No. 2, and Dunmore No. 3 (N-14E), Clinton has Grassy Island, New County, Top Clark, Bottom Clark, Dunmore No. 1, Dunmore No. 2, and Dunmore No. 3 (N-14H & N-14G), and Scranton Coal has Dunmore No. 1, and Dunmore No. 3 (N-14M). Potentially OSM Folios could be used if no other 1:100 maps can be located. Found 1:400 scale maps WBDO\_054-01 to 08 and added to 7 of the 9 vein mosaics temporarily.

- Started fixing the data file paths of 11 Pittston Mosaics by exporting the footprints to shapefile, then adding maps that were checkerboard pattern (incorrect file path) then importing the footprint shapefile. [MSI]
- Continued fixing the Pittston mosaics with fix file path tool or removing, adding back and import the footprint or redraw the footprint. [MSI]
- Finished fixing the Pittston mosaics and started a gap analysis. Need to look for several NMMR Maps on the network drives and ask for SIDs if they are in TIF format. [MSI]
- Worked on importing John Levitsky's Black Duck Habitat KML to Shapefile. Created/edited stream lines, coal mining limit, watersheds and wetlands polygons and sent to Steve for eventual inclusion in an ArcGIS Online (AGOL) story map. [NFWF]
- Conducted a RAMLIS investigation on 2 sites for Vertex Engineering: PA 2110 Jeddo Basin East and PA 1760 near Mayfield.
- Conducted a RAMLIS investigation for the BlueWave Solar Humboldt Site. Sent rough draft of the report to Robert and Steve. Added geologic structural folds, faults and statistics for the impairment to Stony Creek. Searched for and pulled several UMMs into ArcGIS (Surface, Parlor, Wharton, Gamma, and Buck Mountain veins) to show where the closest underground mine voids to the point. I included a URL to each map on the PA Mine Map Atlas for a Geologist's to review.
- Sampled Askam Boreholes, Treatment System, upstream and downstream on Nanticoke Creek, and 2 flow sites for July. Recorded data into sampling spreadsheet and delivered to Earth Conservancy [EC].
- Did some additional scouting of sites on Nanticoke Creek for potential fish sampling later in the week. Recorded data to google sheet and sent to EC. Picked 2 sites on Nanticoke and 2 sites on Espy for fish sampling. Created a PowerPoint of photos and locations from my phone to send to John Levitsky, LCD. [NFWF]
- Conducted field reconnaissance of Newport, Espy and Warrior Creek watersheds to determine if there is enough water to sample fish species for the NFWF project. [NFWF]
- Counted fish species with a backpack shocker at 5 sites in Newport, Nanticoke and Warrior Creek watersheds with John Levitsky and PA Fish and Boat Commission: Nanticoke Headwaters, Nanticoke Mainstem, Reservoir Creek, Newport mainstem and Warrior Creek mainstem. [NFWF]
- Conducted a barrier pillar and mine pool review for the Keystone and Packer Collieries for Tom Clark, Susquehanna River Basin Commission (SRBC) Mine Drainage Coordinator, to facilitate a plan to treat or mitigate the Packer Air Shaft discharge to Gardner Creek.

[ ] - Denotes funding source where applicable.