



## Eastern PA Coalition for Abandoned Mine Reclamation

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### December 2024 Progress Report

#### Highlights:

- EPCAMR staff georeferenced, mosaicked & digitized mine maps for the **DEP MSI** MMG program. Continue QA/QC of **HU's** Southern Anthracite Mosaic work.
- EPCAMR Management staff participated in weekly **PA AML Campaign** calls; and an **PA AMR Conference Committee** call
- Prepared the **2025 EPCAMR Annual Budget** and submitted 2 proposals for PSF work.
- Sampled Askam AMD Treatment System, upstream & downstream on **Nanticoke Cr.** for **EC**; 3 AMD TS, upstream, downstream in **Loyalsock Creek Watershed** for **LCWA & SCD**. Completed **Loyalsock Creek '23-'24 Sampling Report**.
- Updated [www.TreatMineWater.com](http://www.TreatMineWater.com) and [www.EPCAMR.org](http://www.EPCAMR.org); administered GobbaDaPile local domain, G Suite for Nonprofits, and social media sites.

#### Education, Outreach and Admin.:

- Ordered Phosphate LR reagent and a Standards Check for the YSI photometer as a part of the PA American Water Shickshinny Creek CHP grant.
- Finished Loyalsock Creek 2023-2024 Water Quality Monitoring Report and printed for Bobby to review before releasing to the White Ash Land Association (WALA), Sullivan Conservation District (SCD), and Loyalsock Creek Watershed Association (LCWA).
- Prepared a proposal for 2024-2025 Loyalsock Sampling and sent it along with the report to LCWA, WALA and SCD.
- Updated our list of YSI Photometer reagent prices from TEquipment and Amazon websites. Prices go up every time we reorder them.
- Worked on the expenses side of the 2025 EPCAMR Annual Budget and created a spreadsheet that calculates annual raise options for the EPCAMR Personnel Committee to consider.
- Worked on the income side of the 2025 EPCAMR Annual Budget. Completed the spreadsheet and sent to Bobby for comments.
- Reviewed Good Spring South East and West PA BAMR TIP to prepare for a conversation with Cedarville Engineering.
- Met with Frank and Bobby to discuss potential future funding for programs.
- Met with Cedarville Engineering virtually to discuss Good Spring South East and West BAMR TIP for design and reclamation. EPCAMR could lend a hand in identifying additional or removing AMLF with site visits and mine map review. Also, there is a concern about water-filled pits and some are discharging so these will be sampled. Prepared a draft proposal budget and narrative of work anticipated. Also asked some questions of additional work that may need to be added to the proposal and Cedarville asked PA DEP BAMR for clarification.
- EPCAMR Management Staff participated in an AMR Conference Call and follow up with a Tentative 2025 AMR Conference Proposal that committee members can shop out to various venues.

- Aided Bobby in applying for the Stork Impact Partners Grant Application for \$75K of organizational funding. Sent the document for signatures by our EPCAMR president.
- Added 2025 draft budget numbers to QBO, produced a 2025 Budget Overview report, and sent to Bobby for review.
- Aided in organizing 319 reimbursement documents with Bobby.

### **Technical Assistance:**

- Continued QA/QC review of the Southern Anthracite Field Mosaics. Added EPCAMR\_008267-01 thru 03 to Mammoth vein mosaic and EPCAMR\_008268-01 thru 04 from the National Mine Map Repository (NMMR) to Skidmore Vein Mosaic for the Greenwood Colliery. [MSI]
- Removed EPCAMR\_008267-01 thru 03 to Mammoth vein mosaic and replaced with EPCAMR\_008268-01 thru 03 NMMRs instead. Both show All Veins, but while the 008267 NMMRs show a lot of the interconnected inside structures, the 008268 NMMRs show the vein names, and cross sections to compare. May need to add NMMR 8265 Mammoth and 8266 Bottom Split instead. Asked Patrick to SID these files. Replaced OSMRE Anthracite Folio S-3-K\_10 map with EPCAMR\_008338-01 & 02 NMMR which had a more complete vein in the Skidmore Mosaic in Rahn Colliery. Georeferenced EPCAMR\_008421-01 to 05 in Newkirk Colliery. [MSI]
- Regeoreferenced BMSA\_2594 in Newkirk Colliery used for Buck, Mammoth, Four Foot, Holmes, and Diamond vein mosaics. Removed the map and added it back to all the mosaics (to refresh). Adjusted NMMR 008421 to match (especially 06-09 which are missing on the western half of Newkirk). Edited Mammoth Middle Split vein mosaic to show BMSA\_3562-001 above BMSA\_1920-001 in Bell Colliery and asked for NMMR 8080 to be SIDed. Regeoreferenced BMSA\_0148 Mammoth Top Split and BMSA\_3562-001 Mammoth Bottom Split in Bell/Newkirk Colliery. Used EPCAMR\_008421 in Buck Mosaic for correct georeferencing since the surface map is also off in that area. [MSI]
- Remove both BMSA\_0148 and BMSA\_3562-001 and added them back to their respective mosaics. [MSI]
- Downloaded EPCAMR\_8080 (Bell Colliery) and 008266 (Greenwood) SIDs converted by Patrick from DEP's Mine Mapping Grant SharePoint. [MSI]
- Georeferenced and added EPCAMR\_8080 to Seven Foot, Top, Middle, and Bottom Split Mammoth vein mosaics which shows workings in Bell Colliery not digitized. Georeferenced EPCAMR\_8265 Mammoth in Greenwood. [MSI]
- Added EPCAMR\_8265 to Mammoth and Skidmore mosaics. ArcGIS Pro crashed when I applied the grayscale raster function in the mosaic raster item explorer to fix the blue map error common with the NMMRs converted to SID. This process has been acting funny since the last update. Reported the crash to ESRI and relayed the issue to Patrick. [MSI]
- Created a monitoring point map for the Shickshinny, Rocky and Paddy Run Coldwater Heritage Plan (CHP) to help staff know where to sample for chemistry and macroinvertebrates. [ALSRP]
- Georeferenced EPCAMR\_8266 in Greenwood and added to Mammoth Bottom Split mosaic. Removed OSMA\_FOLIO\_100\_S-3-A\_10 (less workings and improperly georeferenced by HU). Asked for SID of NMMR 008406 in Mary D to cover 300 scale MSHA\_1411 & 1416-001s.
- Sampled Loyalsock Upstream, Downstream, & in/out of 3 treatment systems (Connell B Vein, Connell C Vein and Gutten Drift) with Steve and Frank. [LCWA] We waited until deer season was over and found a good time while weather was still decent. Jolie and Sara from the Sullivan Conservation District went along to helped as well.
- Georeferenced EPCAMR\_008406-01 & 03 to 09 in Mary D and added to Mammoth Bottom Split mosaic. Removed MSHA\_1416. ArcGIS Pro crashed again 2x. Sent an error report to ESRI saying I was just editing mosaic footprint boundaries. Updated Patrick of the issue. Setup a time to work with ESRI technical support to solve the problem. [MSI]
- Trained Morgan on digitizing for MSI program. Started her in Wilkes-Barre East Quadrangle at Bottom Red Ash vein to take over where Denise left off. Denise started from the top vein, Abbot, and worked her way down. Added EPCAMR\_008406 to Mammoth Top and Middle split

to show digitized areas missed on the Southern Field Mosaics. Sorting out Mammoth and splits overlaps and underlaps. Some can be deleted. [MSI]

- Regeoreferenced MSHA\_1411-001 in Mary D Colliery in multiple Mammoth mosaics. Added BMSA\_0085-001 from Top Split Overlap and adjusted BMSA\_2594 in mosaic in Ashton & Newkirk Collieries. Added BMSA\_1900-001 from Top Split Overlap in Tamaqua Colliery. It's not an overlap on BMSA\_1149-001 but 5th level workings in Greenwood. Added to Top Split Mammoth mosaic and adjusted with existing 6th level workings. Review Mammoth Bottom Split, Overlap, and Underlap. BMSA\_2482 is the same as BMSA\_2154-001 in underlap just off 48 feet. BMSA\_2771-001\_A in both Underlap and Overlap. In BMSA\_2594 Rock Gangway is an underlap (lower elevations, marked Mammoth Bottom) while BMSA\_0085-001 should be in Mammoth Bottom Mosaic. Switched those. OSMA\_FOLIO\_100\_S-4-H\_09 shows Mammoth Bottom Split Second Level 200 ft above BMSA\_1900-001 in digitizing of overlap (should be underlap). Moved that map to the other mosaic. Deleted the overlap mosaic. [MSI]
- Drew footprint boundary BMSA\_0085-001 to Mammoth Bottom Split mosaic. Continued to search gaps for maps. Seems that there is nothing new Middleport to Randolph along Sharp Mountain to the south. Ran OCR tool on a map with an index of Anthracite Collieries Breakers and Openings to make it searchable. Used this to search some names on the Second PA Geo Survey and USGS I-Series maps. Regeoreferenced the I-Series map 689 TIF for the Orwigsburg quad to confirm the complex structural geology of the mines (massive faulting). Georeferenced and added BMSA\_2994 Barclaugh (aka Mammoth) south of Palo Alto. Showed that BMSA\_0088 was off by 187 feet. Regeoreferenced BMSA\_0088 to fit BMSA\_1643 same series in Randolph (Lucy R) Colliery. Removed and added back to Skidmore and Mammoth mosaics. Remove BMSA\_4195-001 and added geor\_MSHA\_0662-001 (White Ash = Skidmore) in York Farm. [MSI]
- Added geor\_MSHA\_0662-001 to more mosaics to York Farm Colliery. Big Dirt or Smut = Orchard, Barclaugh = Mammoth or Holmes, White Ash = Skidmore, Rough = Seven foot?, and Twin = Buck Mtn. Tried to add to Buck Mountain mosaic, but BMSA\_2683 has elevations, did not have time to regeoreference, but it should be done to fit MSHA\_0662-001. Did not add geor\_MSHA\_0662-001 (Rough = Seven Foot?) in York Farm, because MSHA\_1133-001 seemed to have a lot more coverage but was improperly placed in Rough Vein mosaic. MSHA\_1133-001 should be regeoreferenced to fit geor\_MSHA\_0662-001 and added to Seven Foot (likely a lift of Seven Foot). Removed BMSA\_2683 in York Farm and added MSHA\_0662-001 to Mammoth mosaic (shows Mammoth not heavily mined here). Made notes in Holmes and Primrose mosaics that there is more to digitize. [MSI]
- Continued with Repplier to north & Silver Creek to the south moving west and check the NMMR for Phoenix Park /Pine Knot moving east. Asked Patrick to SID NMMR 008676-01 to 05 Repplier Buck Mountain. Found this map for PADOT and initially georeferenced the TIFF as they were looking to expand a section of Rte 61 known as "The Grade". Wadesville Colliery is also in this last area of QA/QC south of Repplier. I found some small maps under Saint Claire Colliery in the state collection: BMSA\_6681-001 and WBDO\_00F-12-25-01 are georeferenced and BMSA\_3746-002 same map but a blueprint style map that was not. Looks like all the individual vein maps are in the NMMR: Holmes, Top Split, Bottom Split, Skidmore, 7 Foot, and Buck Mountain. Asked for these 43 map scenes (6.72 GB) to be SIDed and uploaded them to the MMG SharePoint. There's another map that shows Diamond, Little Diamond, Orchard 7 maps scenes (1.09 GB) which are veins that Steve is working on. I did not upload these, because I did not know the capacity limit on their SharePoint. I knew that I had a deadline of December 31 for review of the Southern Anthracite Coal Field Mosaics. So, I left it up to Patrick whether he wants this area completed. People live above this area and the maps were not available to HU. Got an autoresponder that he will be on vacation till January 6th. It will take a few days to georeference them, but I am willing to get this last gap area finished up ASAP in early January.

[ ] - Denotes funding source where applicable.