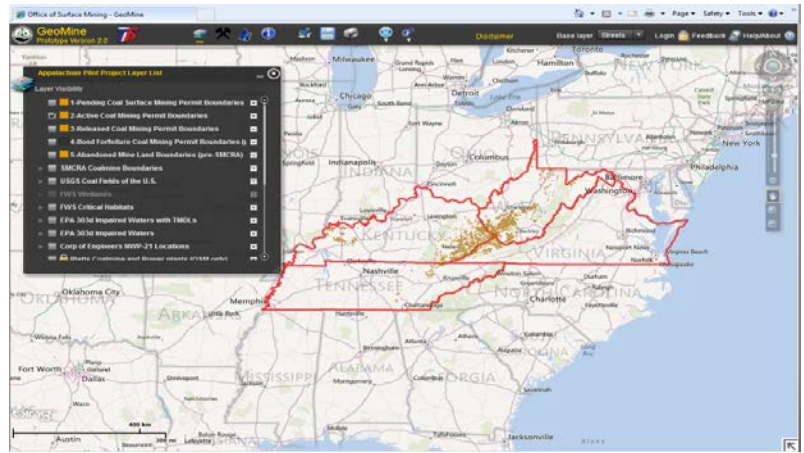




TIPS

Technical Innovation
and Professional
Services

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GeoMine interactive Internet-based mapping application (Viewer 2.0) displays and shares geo-data among seven agencies.

GeoMine Appalachian Pilot Project

The GeoMine Appalachian Pilot Project is an interagency project that began in August 2009 with the goal to develop and deploy a prototype interactive Internet-based mapping application (the Viewer), that displays and shares easily available geo-data among the seven agencies and eventually the public.

The seven participating agencies are the four federal agencies (OSM, FWS, USACE, and EPA) and the states of KY, VA, WV, and the TN federal program. A two-year Project plan was developed collaboratively with the partner agencies, and has been updated regularly. The first version of the Pilot Project Viewer was made available as an Amazon-ESRI Cloud-hosted application in March, 2011 and was tested and enhanced by the Interagency team through November 2011. The new Viewer v. 2.0 was launched in December 2011.

The GeoMine Viewer enables geospatial data to be downloaded by Federal and state personnel. The data can be viewed in various desktop and mobile computing mapping applications including ESRI software (ArcGIS, ArcGIS Server) Google Earth, iPhone/iPAD apps, etc.

The Pilot Project Information Products were designed using approved American Society for Testing and Material Coal Mining and Reclamation Data Standards. The implementation of attributing data to surface mine boundary locations have been tabulated to track and monitor progress in SMCRAs state programs and the TN federal program.

Recent Accomplishments

- The Pilot Project v. 2.0 viewer prototype has 22 preliminary information products:
- SMCRAs agencies – 13 SMCRAs permit-related information products, including: SMCRAs-Coal Mining Permit Boundaries, Underground Mine Extents, and Hydrologic Trend Station data for WV.
- OSM – point locations for the eAMLIS AML inventory and project sites and Mine Map Repository underground coal mining maps.
- FWS – 2 products: National Wetlands Inventory and critical habitat for threatened and endangered species
- Corps of Engineers – 4 products including Nationwide (NWP) permits, and Mitigation Locations.
- EPA – three products including STORET hydrologic data.
- Federal Cooperative Agreement grants awarded in 2011 to KY, VA, and WV have already facilitated the creation of thousands of new digital SMCRAs coal mining boundaries.

Pilot Project Next Steps

- Incorporate new geodata from SMCRAs states created under 2011 grants into the GeoMine Viewer.
- Draft a final GeoMine Pilot Project report to be completed by November, 2012.
- Participate in the Federal Geo-Cloud-II initiative.

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