



FY2014 Coal Mining & Reclamation Geospatial Work Plan SMCRA GeoCommittee

February 6, 2014

I. Introduction

The Surface Mining Control and Reclamation Act (SMCRA) National Coal Mining Geospatial Committee (GeoCommittee) has prepared this *FY2014 Coal Mining & Reclamation Geospatial Work Plan (FY14 Work Plan)* which is considered a supplement to the *Coal Mining and Reclamation Geospatial Strategic Plan, February 2013 (GeoPlan)*. This *FY14 Work Plan* first provides a summary of recent major accomplishments and then identifies projects and major tasks planned for this fiscal year.

The GeoCommittee (previously designated NCMGC, now known as the GeoCommittee) consists of representatives from organizations that implement SMCRA that have agreed to support the goals and activities of the committee. Member organizations are the Interstate Mining Compact Commission (IMCC), National Association of Abandoned Mine Land Programs (NAAMLPLP), Western Interstate Energy Board (WIEB), the three OSM regions and the national Technology Innovation and Professional Services (TIPS) program. The Chair of the GeoCommittee is OSM's Geospatial Information Officer (also the Chief, Technology Management Division, Western Region).

As stated in the GeoCommittee Charter, dated September 29, 2011, the committee is ***“chartered to discover, review, and promote geospatial technologies that increase the effectiveness and efficiencies of SMCRA organizations.”***

The work plan is not set in concrete. FY14 is especially challenging due to sequestration and continuing struggles to get congressionally approved budgets in a timely manner. The GeoCommittee will utilize an agile project model in order to be quick and nimble in response to business needs. During the year some projects/tasks may be added, while others may be delayed or eliminated. The intent is to identify specific projects and activities for the GeoCommittee to focus on that will lead the SMCRA community to achieving the goals identified in the *GeoPlan*. This work plan will be primarily implemented within the resources available, by the member organizations, working cooperatively. Where appropriate and needed the GeoCommittee will solicit resources and funds from their respective organizations and other sources. GeoCommittee plans and activities are considered part of OSM's national TIPS program and will be supported by TIPS as resources/funds are necessary and available.

For further information regarding the GeoCommittee and related documents and plans please go to the TIPS website located [here](#).

II. Major Accomplishments and On-Going Efforts

The following is a list of major accomplishments since OSM distributed the draft *Geospatial Strategic Plan (GeoPlan)* in April 2010.



- Prepared and completed the *Coal Mining and Reclamation Geospatial Strategic Plan*
- Established a Governance Structure of the GeoCommittee
- Coal Mining and Reclamation Data Standards Approved by ASTM
- OSM Organizational GeoLocator GeoDashboard
- Applied Science Project Locator GeoDashboard
- Procurement of Additional Bandwidth
- Completion of the Appalachian GeoMine Pilot Project

The following items are new, or carried over, from FY13:

Notable accomplishments and tasks to be completed include:

- 1) GeoMine: Approval received November 2013 to launch the GeoMine Federal Viewer, with a GeoMine Viewer Version 4.0 posting Federal and State data to follow In May 2014.
 - Development and continued enhancement of the GeoMine cloud prototype viewer: The viewer allows a seamless means to display choice map layers from the OSM, EPA, FWS and the four pilot project states (Kentucky, Tennessee, Virginia and West Virginia) on the web. This website is intended for the state and Federal partner agencies that have responsibilities in their various coal-mining related programs in the four pilot project states. The Federal Viewer is available to the public at this time. The unified GeoMine Viewer Version 4.0 with Federal and State data will be available in May 2014.
 - Garnering the approval of the GeoMine pilot executives to expand the project beyond the four states: A phased nationwide deployment of GeoMine will be proposed. A plan with estimated costs, spanning a project + five year (maintenance cost) timeframe, will be posed for an executive decision in fiscal year 2014. Funding would be available in FY15.
- 2) Annual Coal Mining and Reclamation Activities GeoDashBoard (AMRA)

This *prototype* interactive Internet-based mapping application provides OSM, State and Tribal executives and staff, as well as Departmental and Congressional executives a vehicle to view important annual metrics and data that are used to report the progress of SMCRA's regulatory programs for States and OSM. The map viewer provides a unique geographical perspective along with tabular data and graphical views. The raw data feeding this dashboard (Data for States and tribes database) is also reported in OSM's Annual Report and in OSM's annual "Budget Justifications and Performance Information" (Green Book), and includes some of the Government Performance and Results Act (GPRA) measures (e.g., inspectable units with offsite impacts).



NAAML



The prototype dashboard has already been built and tested, and the current need is to convert all pre-2012 data (which includes 2007 through 2011), to a final format, so that measured values are equivalent across all years. The challenge is to work out a one-time cross-walk of old data formats to a final format.

- 3) Complete and deliver the Remote Sensing Pilot Project Final Report.
 - o Explore Virtual Inspection options for cost savings.
- 4) Install and deploy an OSMRE image server internal to OSM at the DOI Federal Center.
- 5) Deploy external access to OSMRE image server, available to States and Tribes.



III. FY2014 Geospatial Work Plan Projects and Tasks

The following is a list of major projects and tasks that the GeoCommittee has agreed to target for FY2014. TBD = To Be Determined

Geospatial Work Plan Projects and Tasks			
As of 1/1/14			
Projects/Tasks	Anticipated Start Year	Anticipated Completion Year	Lead Person
Goal 1 - Governance			
1. Develop the FY2014 Geospatial Work Plan	2013	2013	Rivers
Goal 2 – Business Processes			
2. Apollo - Establish processes for data accessibility via OSMRE image server	2013	2014	Plascencia /Rivers
3. GeoMine - Develop a National Coal GIS Database for States and Tribes that do not have their own and want access to one	2014	2014	Benson/Rivers
4. GeoMine - Submit GeoMine PII, COOP and Security documentation	2014	2014	Rivers
Goal 3 – Data Management			
5. Secure FGDC approval for both ASTM Standards <ul style="list-style-type: none"> • Standard practice for geospatial data for representing coal mining features—ASTM D7780 (primarily the SCMRA regulatory program). • Standard practice for minimum geospatial data for abandoned mine land problem areas, planning areas, planning units, keyword features, and project sites—ASTM DM D7699/D7699-11. 	2014	2015	Galya/ASTM Team
6. Apollo - Install and deploy ERDAS Apollo image server internal to OSM at DOI-Denver Federal Center; load data and test	2013	2014	Rivers/Plascencia
7. Apollo - Deploy external access to ERDAS Apollo image server (available to States and Tribes)	2014	2014	Osborne/Plascencia
8. GeoMine - Add nationwide county-level coal production data from 1977 to present to the REG-8 AMRA	2014	2014	Benson
9. GeoMine - Convert all pre-2011 REG-8 data to new database formats and update dashboard to show 2007 through 2013 REG-8 data	2014	2014	Benson
Goal 4 – Applications and Technology			
10. Remote Sensing - Complete and deliver the Remote Sensing Pilot Project Final Report including recommendations on business improvements processes	2012	2014	Rivers
11. GeoMine - Deliver GeoMine project plan to GeoCommittee	2014	2014	Rivers/Welsh
Goal 5 – Education and Outreach			
12. Prepare and implement a plan for sharing and communicating geospatial advancements, ideas, and needs among all SMCRA organizations, including innovative communication solutions, e.g., blog, list server, Wiki.	2013	2014	Avishai --Data Steward Coordinator



Geospatial Work Plan Projects and Tasks

As of 1/1/14

Projects/Tasks	Anticipated Start Year	Anticipated Completion Year	Lead Person
<p>13. GeoCommittee Member Briefings for constituents—each representative will brief their organization and constituents concerning GeoCommittee activities and geospatial efforts (at least once during the year).</p> <p style="padding-left: 100px;">NAAML P Winter Business Meeting</p> <p style="padding-left: 100px;">NAAML P Annual Business Meeting</p> <p style="padding-left: 50px;">GeoMine Project Briefing—IMCC Fall Meeting</p> <p style="padding-left: 20px;">GeoMine Project Briefing—OSM Director & Executive Council</p> <p style="padding-left: 100px;">AR Management Council</p> <p style="padding-left: 100px;">MCR Management Council</p> <p style="padding-left: 100px;">WRTT</p> <p style="padding-left: 20px;">GeoMine Project Status Briefing—KY, WV & VA Executives</p> <p style="padding-left: 100px;">IMCC Spring Meeting</p> <p style="padding-left: 100px;">WR Management Council</p> <p style="padding-left: 100px;">WIEB Annual Meeting</p> <p style="padding-left: 50px;">OSM Program Support Directorate Management</p> <p style="padding-left: 20px;">TIPS Training Classes—Update Intro Power Point</p>	<p>2014</p> <p>2/27/14</p> <p>TBD</p>	<p>2014</p>	<p>Sharp</p> <p>Sharp</p> <p>Rivers/Welsh</p> <p>Rivers/Welsh</p>
<p>14. GeoMine - Develop an outreach plan for distributing the results of the Appalachian GeoMine Pilot Project to various stakeholder groups, including the SMCRA Community</p>	<p>2014</p>	<p>Jan 2014</p>	<p>Rivers/Welsh</p>
<p>15. Remote Sensing - Develop an outreach plan for distributing the results of the Remote Sensing Pilot Project to various stakeholder groups, including the SMCRA Community</p>	<p>2014</p>	<p>2014</p>	<p>Rivers/ Osborne</p>