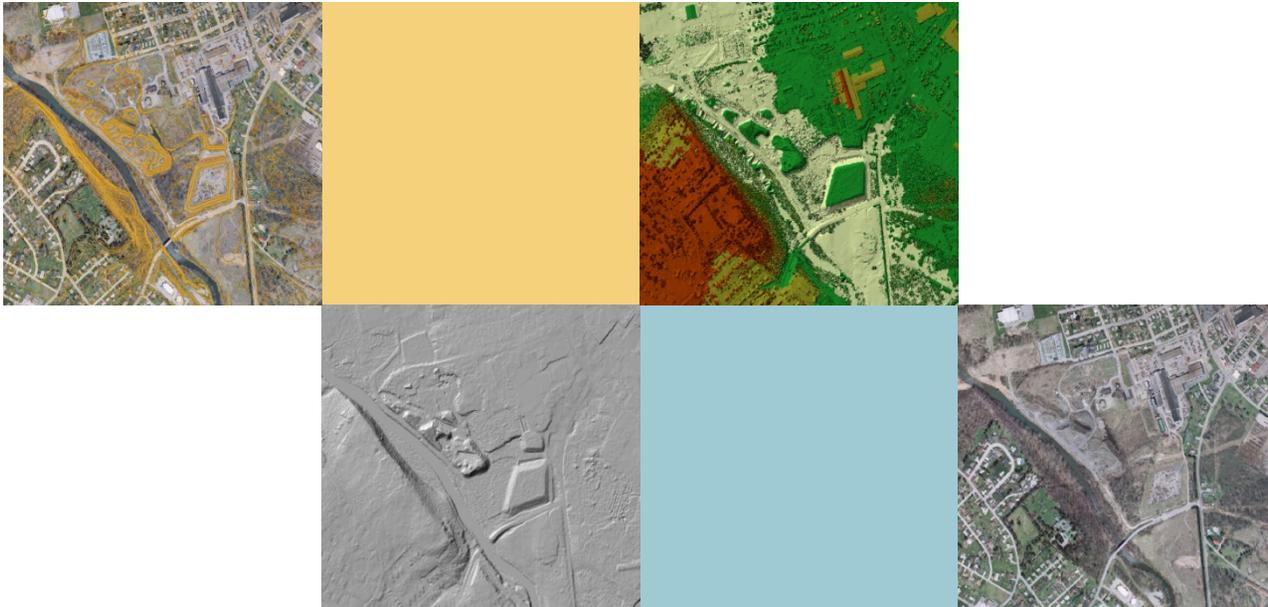


Title 5 - Regulation of Surface Coal Mining and Reclamation Operations



Incorporating Geospatial Technologies into SMCRA Business Processes

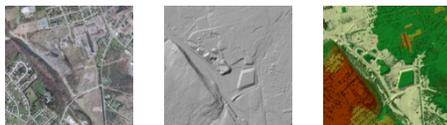
March 25 - 27, 2008

Atlanta, Georgia

Title 5 - Regulation of Surface Coal Mining and Reclamation Operations

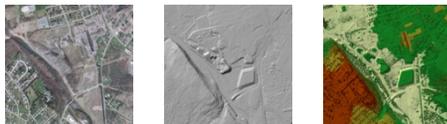
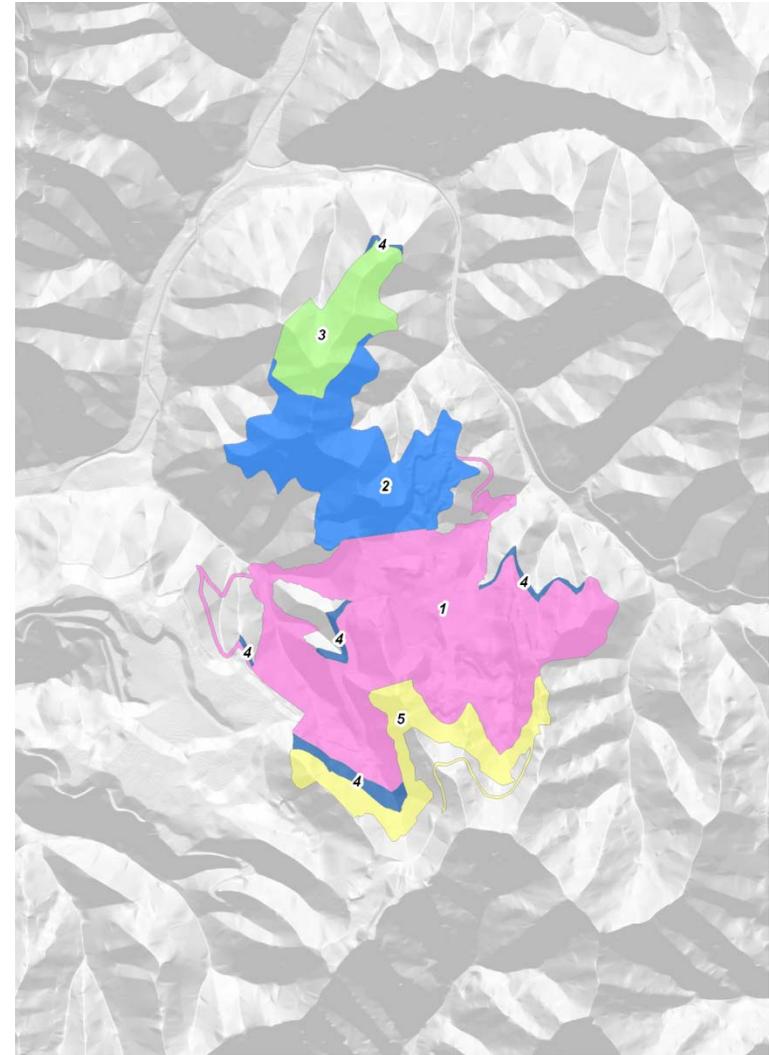
The development of 21st. century voluntary geospatial practices will support **better understanding** and **more accurate** assessment of coal mining reclamation success.

Spatial datasets **proposed** for **standards development** to support Title V activities include:



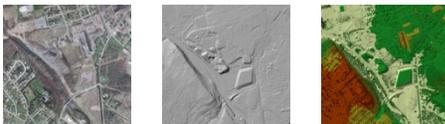
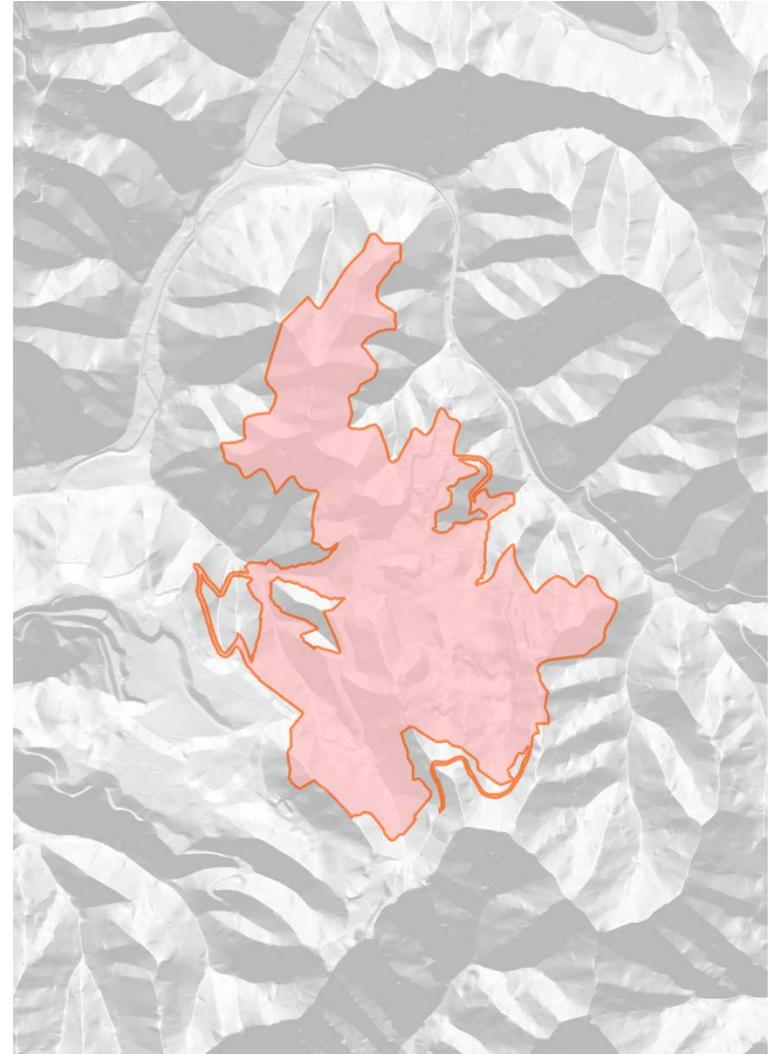
Bond Increments

A closed polygon defining the boundary of the land within the permit area for which the regulatory authority has accepted a performance bond from a coal mining operator who will conduct surface coal mining and reclamation operations within the term of a permit.



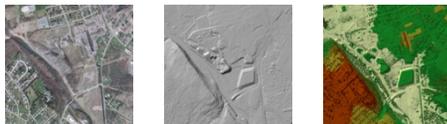
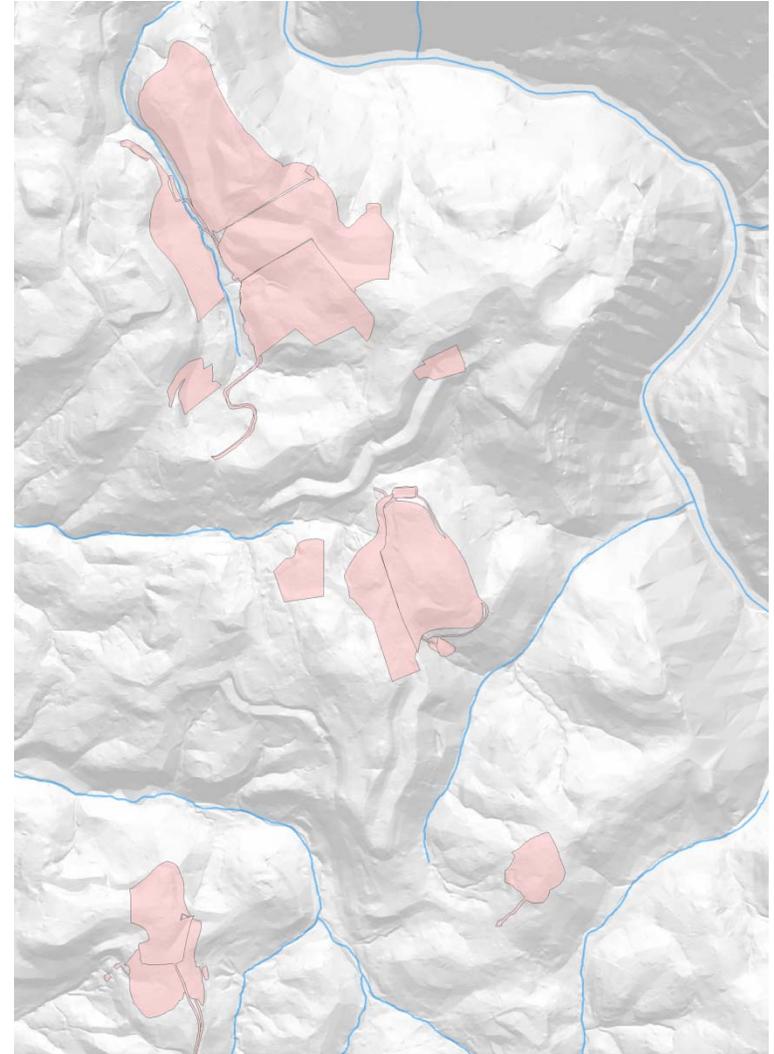
Disturbed Areas

A closed polygon defining the boundary of the land within the bonded increment of a permit area which has been disturbed or affected by surface coal mining operations as defined by applicable regulations and/or SMCRA.



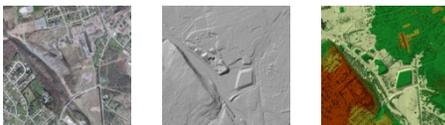
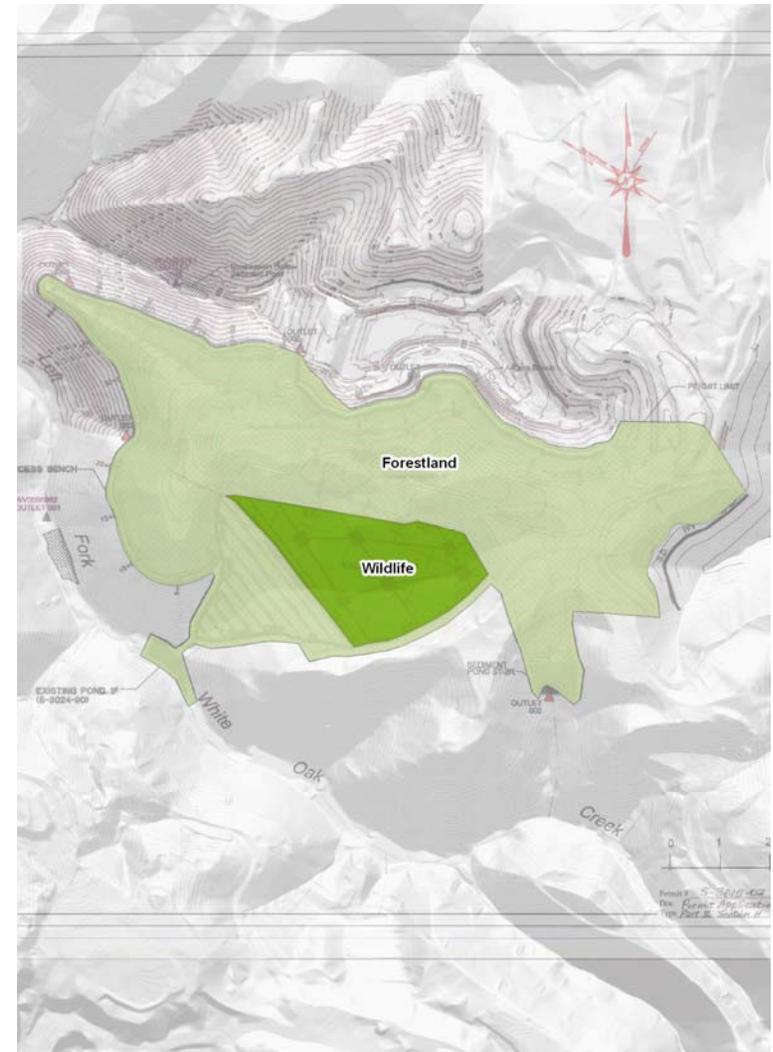
Forfeited Mine Areas

A closed polygon defining the boundary of the permit area for which the performance bond has been forfeited and collected by the RA.



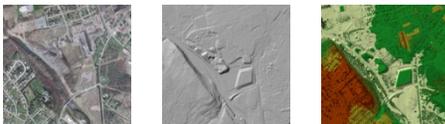
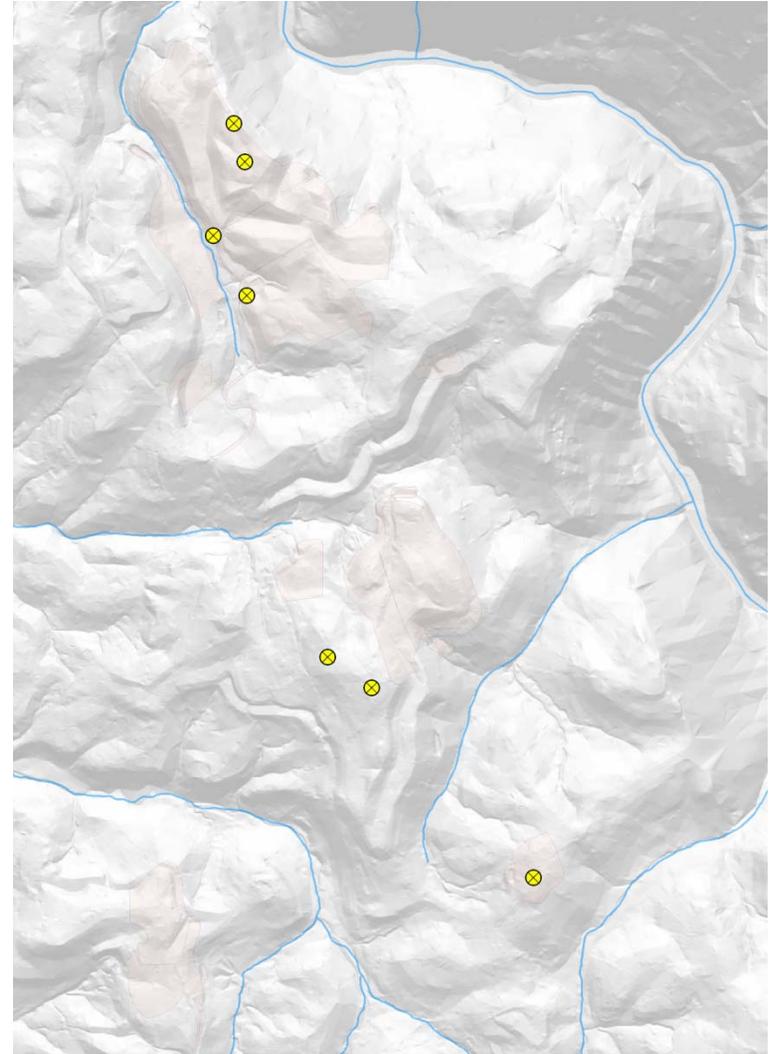
Post Mining Land Use

A closed polygon defining the boundary of the area of land within the bonded increment of the permit area for which a post mining land use has been approved by the RA.



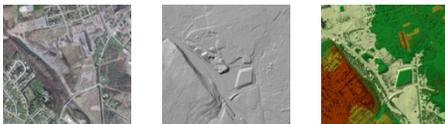
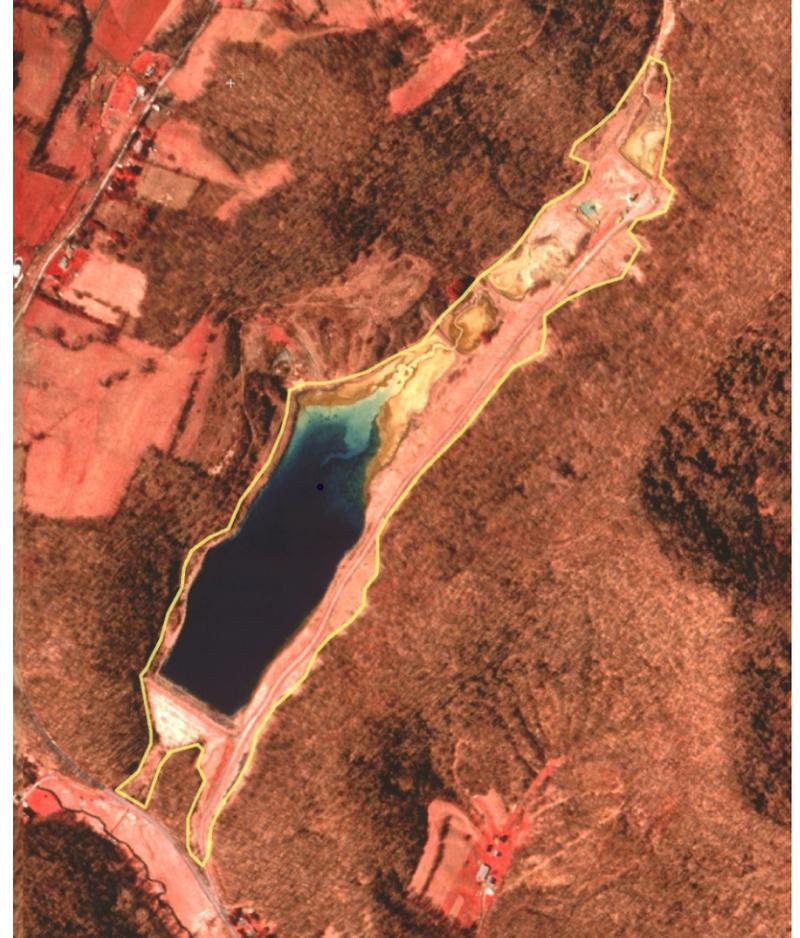
AMD Inventory

A point defining the geographic location of a discharging source of untreated Acid Mine Drainage (AMD) within the coalfield of an approved state regulatory program.



AMD Treatment Facilities

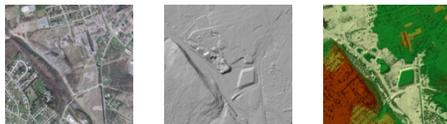
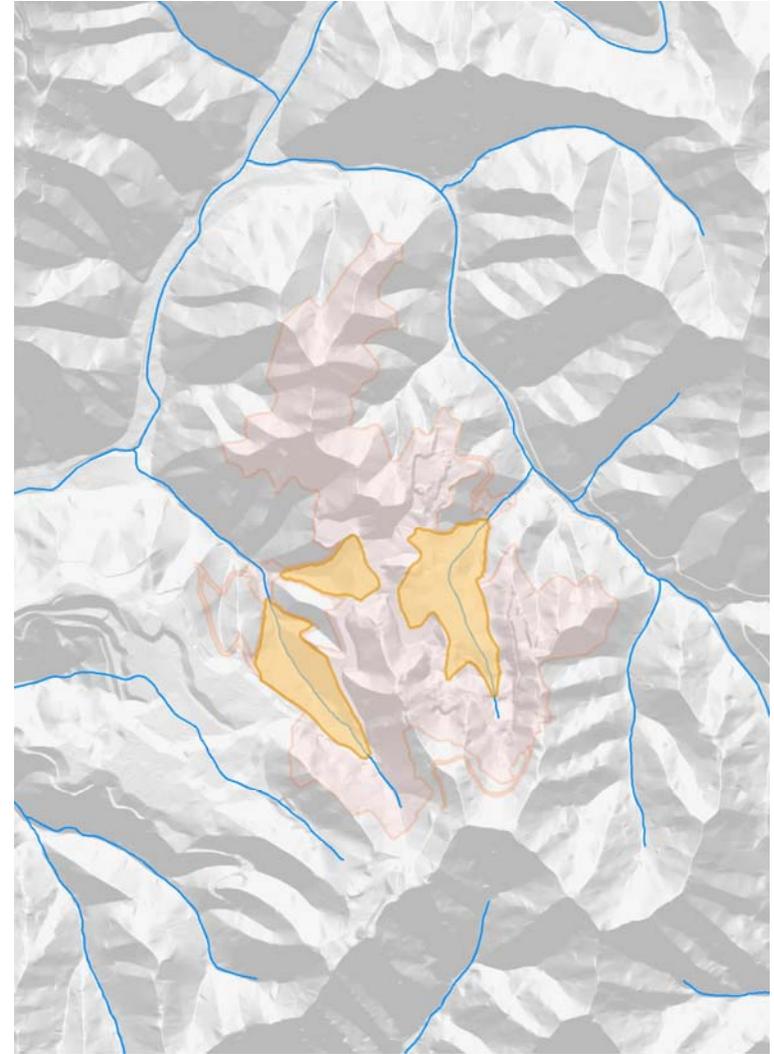
A polygon defining the boundary of an area of land on which is located a treatment facility constructed to remediate discharging sources of Acid Mine Drainage (AMD) and operated under the jurisdiction of the RA of an approved state regulatory program.



Critical Earth Fills

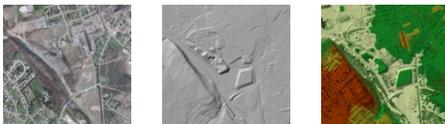
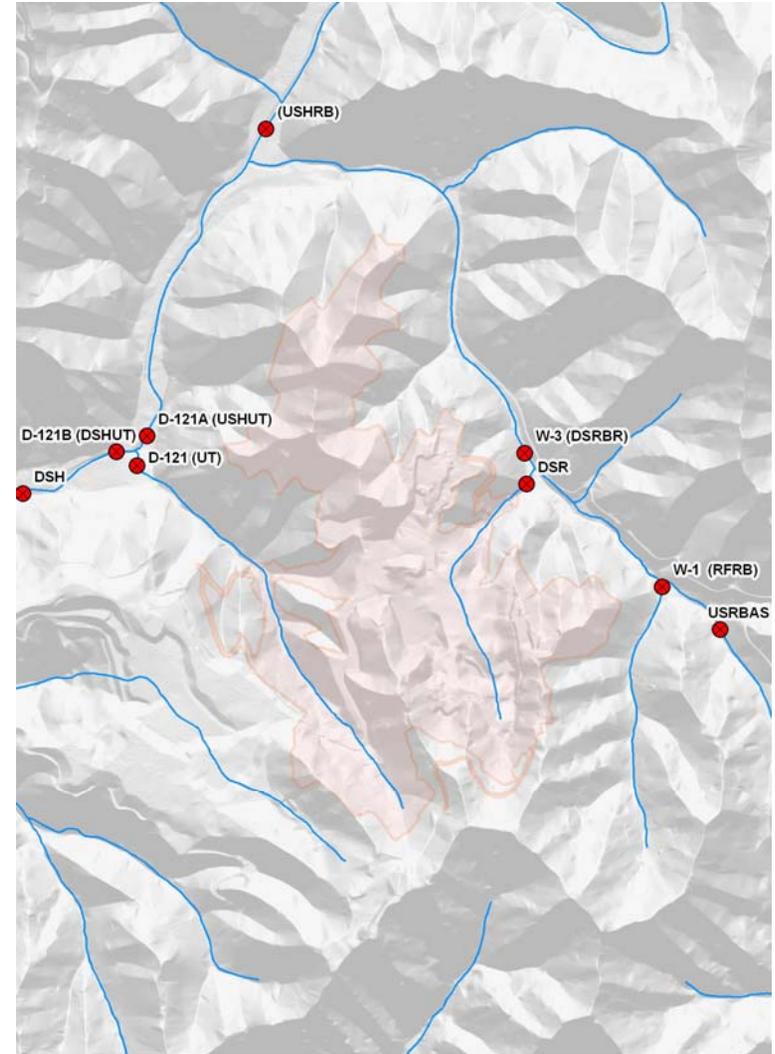
A closed polygon defining the boundary of the area of land on which a permanent earth fill is proposed to be located as described in an approved permit to conduct surface coal mining operations.

Remotely sensed?



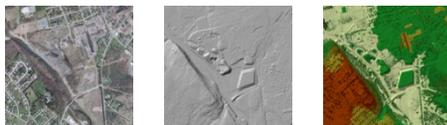
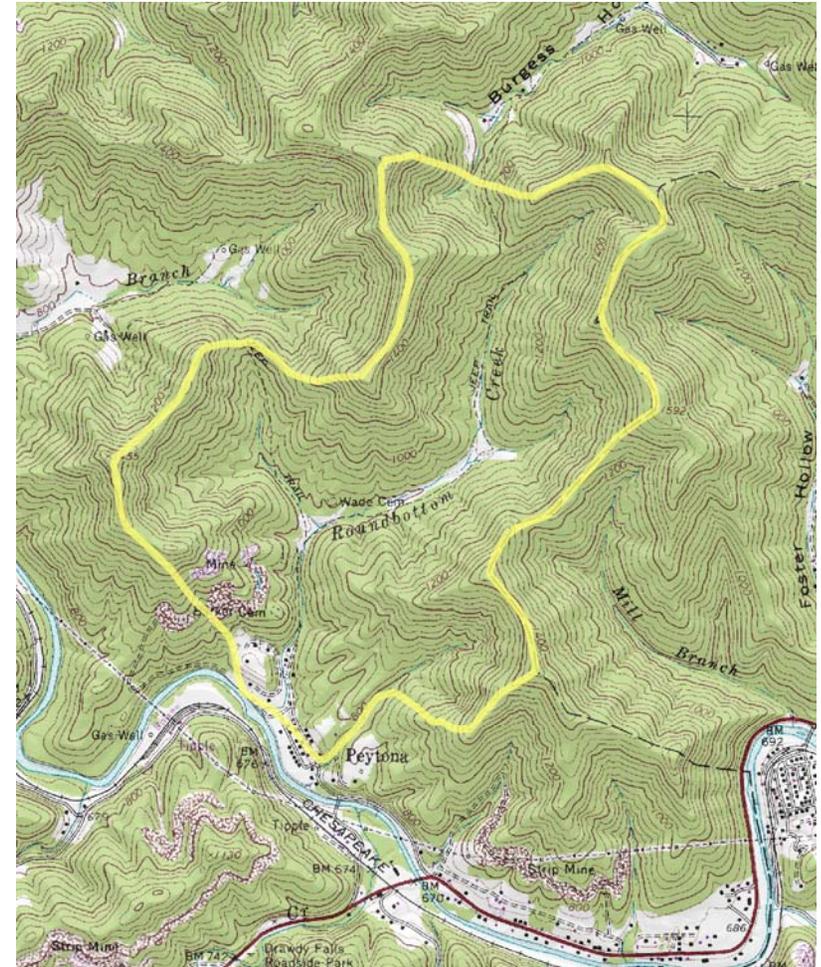
Water Monitoring Locations

A point defining the geographic location of a monitoring point for which water samples have been collected and analyzed by industry and the results have been submitted to the RA for review and analysis.



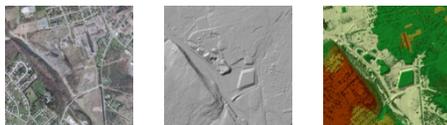
Lands Unsuitable for Mining Petition (LUMP) Areas

A closed polygon defining the boundary of the area of land for which a petition has been filed under applicable regulations and accepted by the RA for processing and possible declaration as Land Unsuitable for Mining.

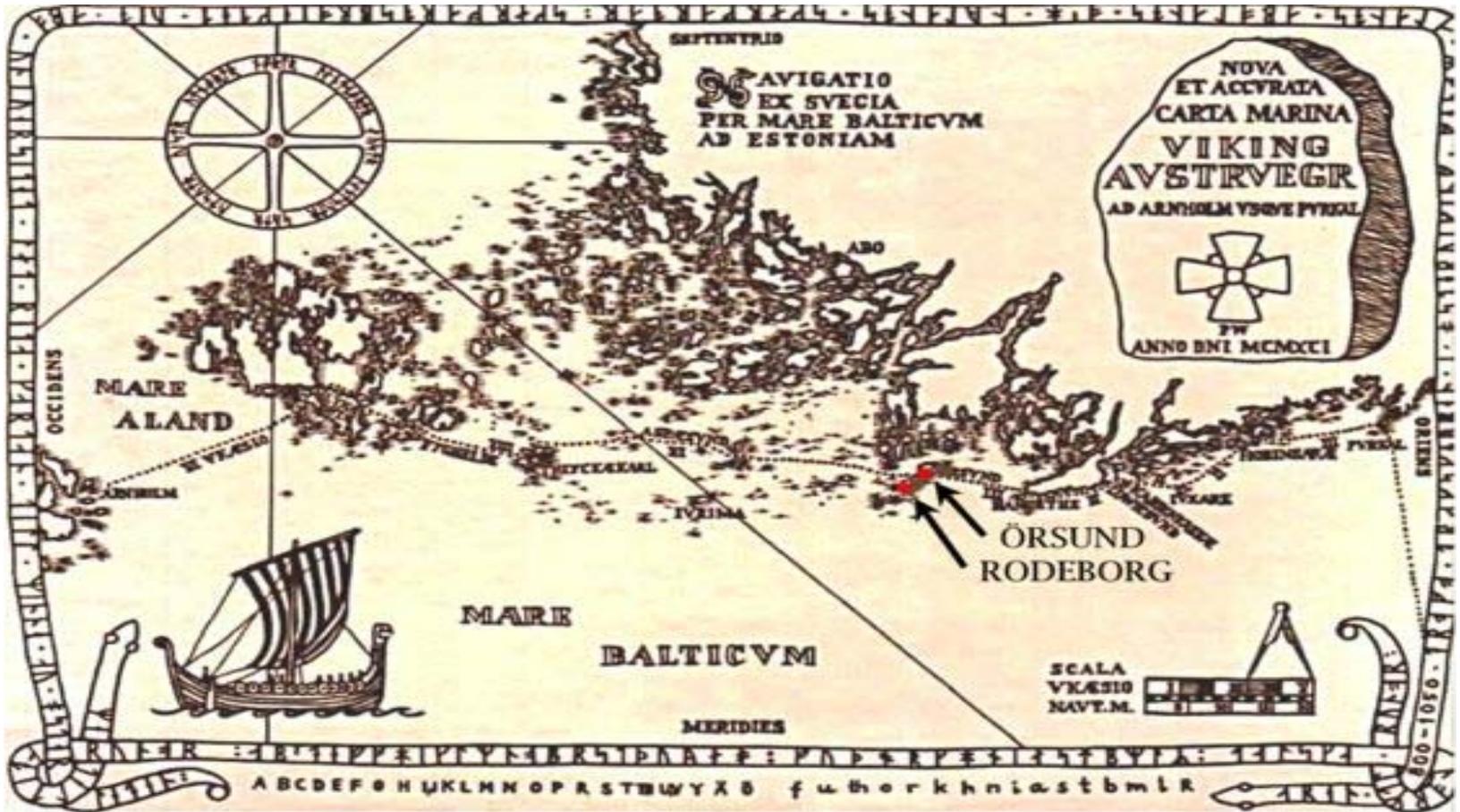


Lands Unsuitable for Mining (LUM) Areas

- A closed polygon defining the boundary of the area of land for which the RA has declared to be Land Unsuitable for Mining.



The end



Today's SMCRA permitting map

