

ARRI Demonstration Projects

- Amerikohl Indiana County 2007
- SGL 100 Centre County 2008
- Bernice Site Sullivan County 2008
- Fisher Mining Lycoming County 2008

Amerikohl Indiana County

- ~140 acres, issued in 2000.
- ~137 acres planted in grasses, grains, legumes & tree seedlings in April 2007.
- ~3 acres owned by permittee hand planted *only* in hard wood seedlings *in 2007*.
- Great place to show case ARRI because in middle of county & permit straddles township road

Concerns Indiana County

- To save money on reclamation – ARRI must be planned early
- Very expensive to bring trucks (50 ton end dumps) back to site
- Sheet flow from upslope will be channelized when converges through ARRI
- Adjacent & public reaction

Survival Rates Indiana County

- High Survival Rate in ARRI 80%
- Seedling Mortality in adjacent 100%
- Additional Trees from “natural planting” into ARRI

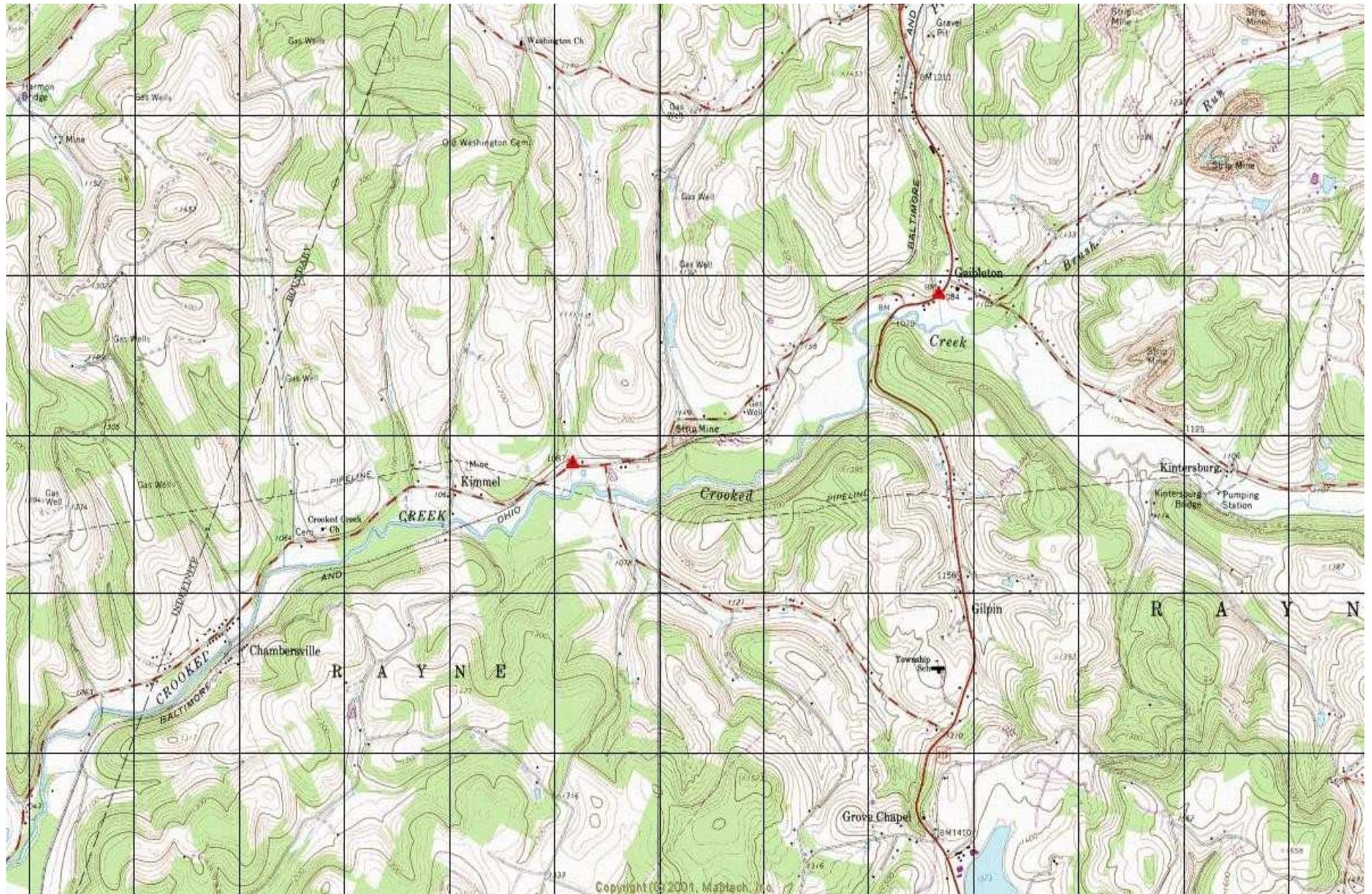
AMERIKOHL MINING INC



202 SUNSET DR
BUTLER PA 16001
PH: 724-282-2339

SMP #32000101
MSHA #36-08722

RAYNE TOWNSHIP
INDIANA COUNTY
ERNEST #5 MINE



May 8, 2008



May 8, 2008





May 8, 2008



May 2008



May 8, 2008





































SGL 100

Near Snow Shoe PA.

- Abandoned Mine Land
- Reaffected by 3rd party –
 - passive treatment & small backfill project
 - Interest area was borrow pit
- Used as “control”
- Planted to Chestnut tree nuts











MAY 14 2008

June 3, 2010



June 3, 2010



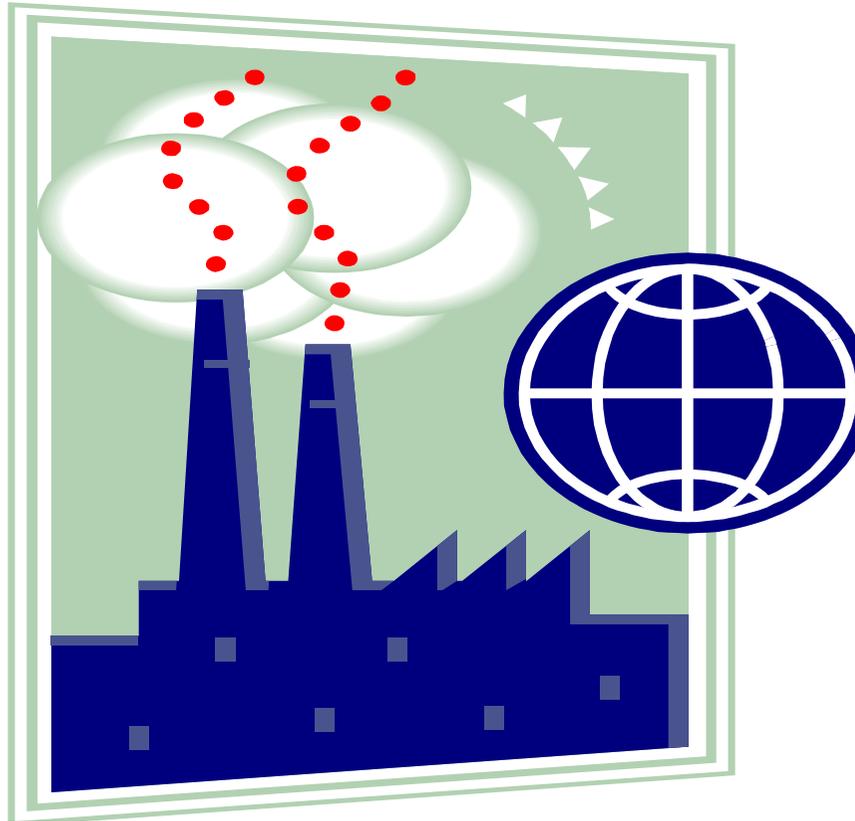
June 3, 2010



June 3, 2010



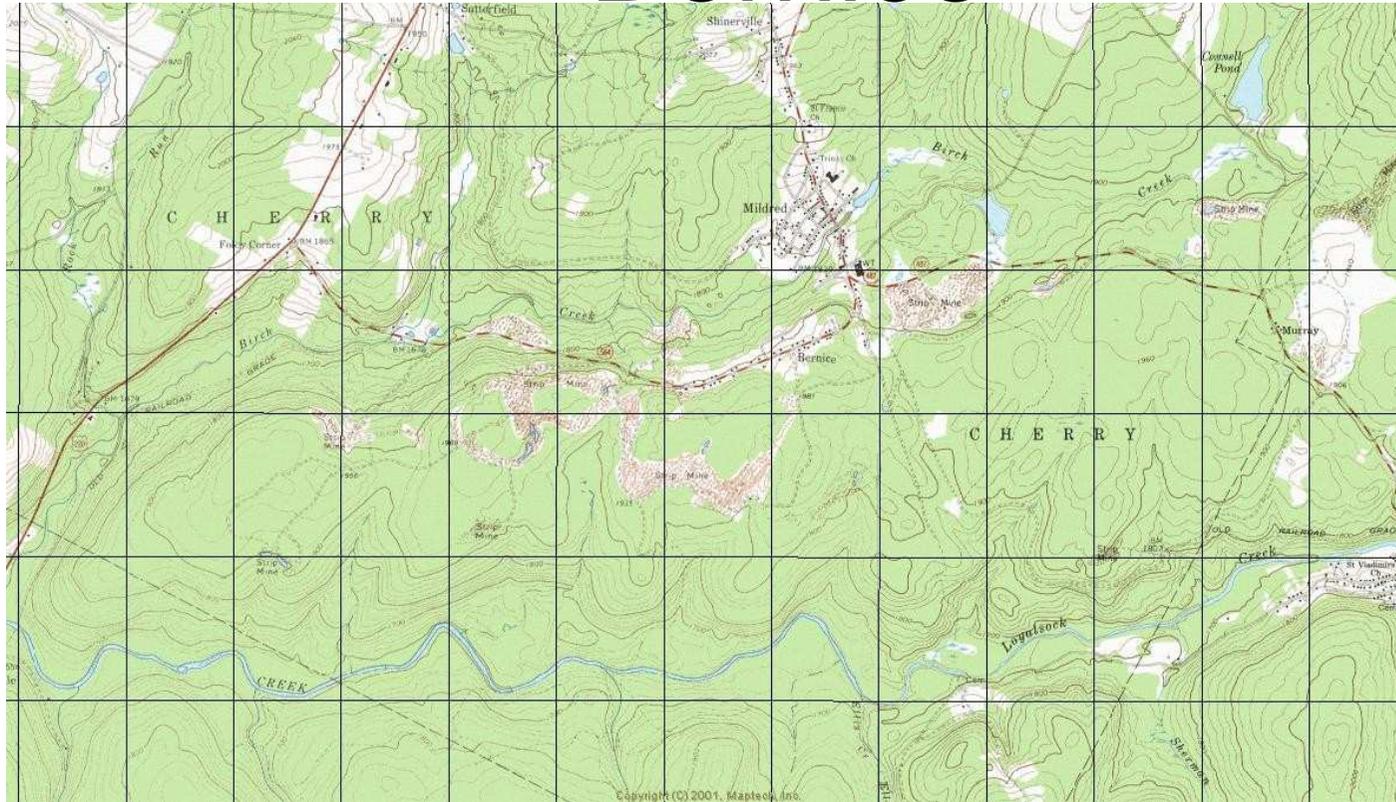
May 2008 Bernice



Bernice Concerns / Lessons

- Abandoned Mine Land / Forfeited Site
- Very poor operator
- Site being reclaimed by 3rd Party so can “use biosolids”
- Site very flat with very high clay content
- Biosolids added at 60 tons/acre
- A few neighbors (2-4 miles away) unhappy
- Too wet & too much clay for Chestnuts

Bernice



May 2008 Bernice



May 2008 Bernice



May 2008 Bernice



May 2008 Bernice



May 2008 Bernice



May 2008 Bernice



May 2008 Bernice





Concerns Lycoming County

- Land owner – wants grasslands & wild life habitat
- Sheet flow from upland channelized through lumpy dump
- Looks bad early on
- Deer browse on seedlings

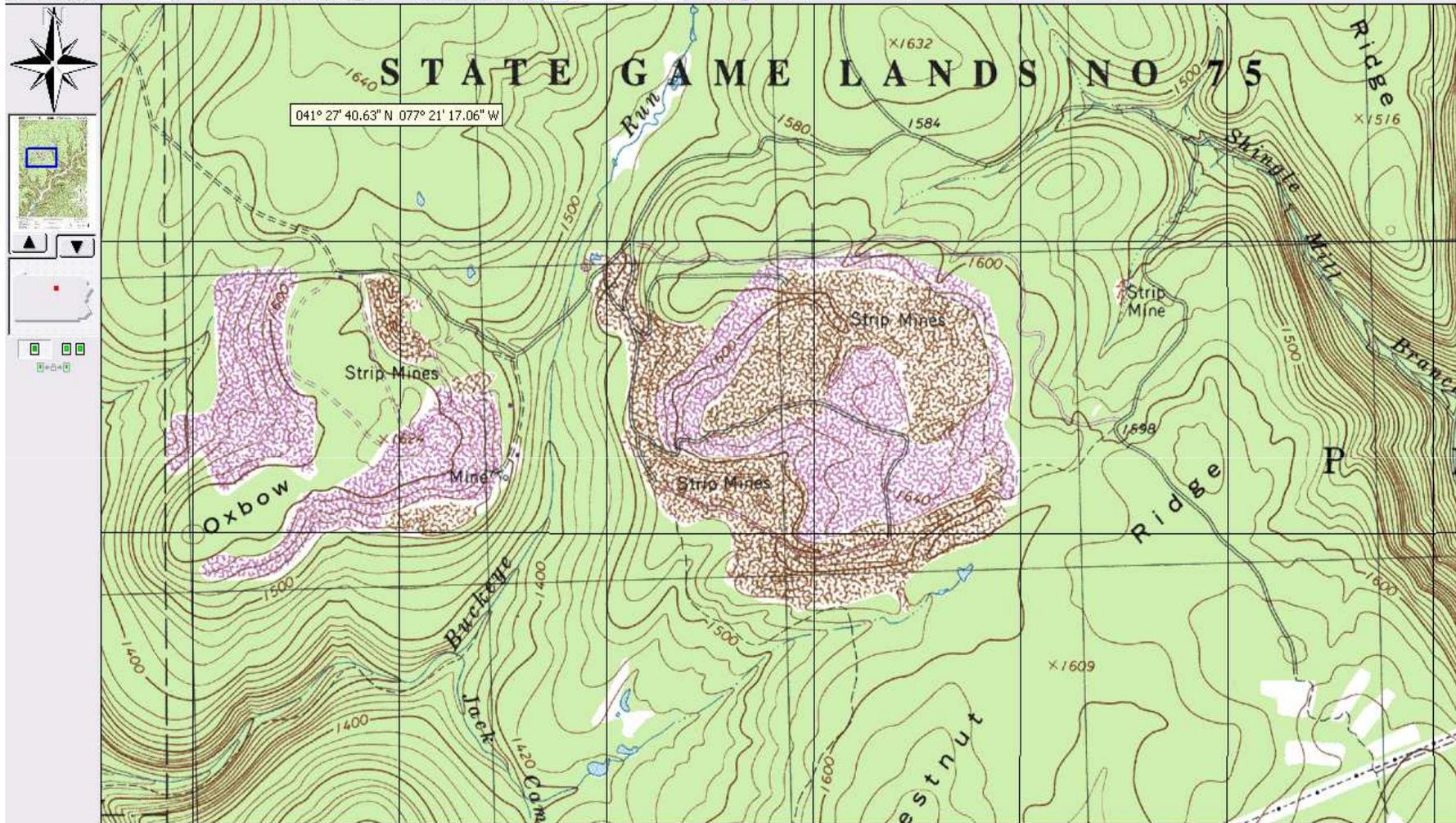
Positives Lycoming County

- Operator saves lots of money
 - Scoop up topsoil – stumps & all for live handling
- Minimize Compaction Placing Stumps & Rocks
- Seedlings Thrive



Name	Length	Moving Time	Climbing Elev.	Avg. Speed	Color	Date	Max S
<input checked="" type="checkbox"/> F A overview	0 ft	No time data	No Data	0.0 mph			0.0 m
<input checked="" type="checkbox"/> 7983	0.88 mi	0:06:31	511 ft	8.1 mph			5.1 m
<input checked="" type="checkbox"/> Shuler	0 ft	No time data	No Data	0.0 mph			0.0 m
<input checked="" type="checkbox"/> Untitled	0 ft	No time data	No Data	0.0 mph			0.0 m
<input checked="" type="checkbox"/> Farm	0 ft	No time data	No Data	0.0 mph			0.0 m
<input checked="" type="checkbox"/> farm1	0 ft	No time data	No Data	0.0 mph			0.0 m

Click on map to pan. Right click selects tracks and waypoints.



Click and drag to move map [Shift: Zoom Out] [Shift+Ctrl: Center Tool]













May 2008 Fisher



May 2008 Fisher



May 2008 Fisher



May 2008 Fisher



May 2008 Fisher





























































Amerikohl Standard Practice June 2010



Amerikohl ARRI June 2010



Amerikohl ARRI June 2010



SGL 100 June 3, 2010



Fisher ARRI June 2010



Joint Mining & Reclamation Conference

John Meehan, Reclamation Coordinator
Department of Environmental Protection
Bureau of Mining and Reclamation
Harrisburg, Pa

717-783-9388 johmeehan@state.pa.us