APPENDIX C: Maps from the University GIS Database Depicting Mining Extent, Overburden and Surface Features

This appendix showcases the data created during the 3rd Assessment period. Maps presented show the locations of each mine with respect to roads and streams, the extent of mining during the 3rd Assessment period, University calculated overburden contours, and surface features such as structures and water supplies (referred to in the maps as watersources). The mines are organized alphabetically and each include four maps except for the following:

No “200-ft Buffer and Structure” map:
- Dunkard No.2
- TJS No.4

No “Watersources and RPZ” map:
- Crawdad No.1
- Dooley Run
- Rampside No.1
- TJS No.4

Glossary of Terms used in the Map Keys:

<table>
<thead>
<tr>
<th>Term</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Highways</td>
<td>Main highways over the mine. (labeled)</td>
</tr>
<tr>
<td>Streams</td>
<td>Stream network over the mine. (not labeled)</td>
</tr>
<tr>
<td>State Roads</td>
<td>State roads over the mine. (not labeled)</td>
</tr>
<tr>
<td>Room-and-Pillar</td>
<td>Area mined using room-and-pillar mining method.</td>
</tr>
<tr>
<td>Pillar Recovery</td>
<td>Area mined using the pillar recovery method.</td>
</tr>
<tr>
<td>Longwall Panel</td>
<td>Area mined using the longwall mining method.</td>
</tr>
<tr>
<td>Overburden Contour</td>
<td>University generated overburden contours.</td>
</tr>
<tr>
<td>Structures</td>
<td>No= No reported effects during the 3rd Assessment period.</td>
</tr>
<tr>
<td></td>
<td>Yes= There was a reported effect during the 3rd Assessment period.</td>
</tr>
<tr>
<td></td>
<td>*This includes ANY reported effect regardless of liable, non-liable,</td>
</tr>
<tr>
<td></td>
<td>interim resolution, unresolved, or other resolution status</td>
</tr>
<tr>
<td></td>
<td>*This also includes reported effects that were outstanding from the 2nd</td>
</tr>
<tr>
<td></td>
<td>Assessment.</td>
</tr>
<tr>
<td></td>
<td>*Yes (2) means there were two reported effects for this structure.</td>
</tr>
<tr>
<td>Watersources (Water Supplies)</td>
<td>No= No reported effects during the 3rd Assessment period.</td>
</tr>
<tr>
<td></td>
<td>Yes= There was a reported effect during the 3rd Assessment period.</td>
</tr>
<tr>
<td></td>
<td>*(This includes ANY reported effect regardless of liable, non-liable,</td>
</tr>
<tr>
<td></td>
<td>interim resolution, unresolved, or other resolution status)</td>
</tr>
<tr>
<td></td>
<td>*Yes (2) means there were two reported effects for this water supply.</td>
</tr>
<tr>
<td>200-ft Buffer</td>
<td>University inventory buffer</td>
</tr>
<tr>
<td>RPZ</td>
<td>Rebuttable Presumption Zone - This is a model of a complex boundary used by</td>
</tr>
<tr>
<td></td>
<td>the PA DEP regarding water supplies. The zone’s extent beyond mining is</td>
</tr>
<tr>
<td></td>
<td>dependant on overburden thickness at the edge of mining.</td>
</tr>
</tbody>
</table>

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

4 West Mine
Mining Areas, Major Roads and Streams

Map Key
- Highways
- Streams
- State Roads
- Pillar Recovery
- Room-and-Pillar

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh
4 West Mine
Mining Areas and Overburden Contours

Map Key
- Overburden Contour
- Pillar Recovery
- Room-and-Pillar

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh

Waynesburg
Greene County

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
4 West Mine
Mining Areas, 200-ft Buffer and Structures

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Map Key
- Pillar Recovery
- Room-and-Pillar
- 200-ft Buffer
- No=Structures with no reported effects

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh

C_4
4 West Mine
Mining Areas, Watersources and RPZ

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Map Key
- **Watersources with no reported effects**
- Pillar Recovery
- Room-and-Pillar
- RPZ

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh
Agustus Mine
Mining Areas, Major Roads and Streams

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Agustus Mine
Mining Areas and Overburden Contours

Map Key
- Overburden Contour
- Room-and-Pillar
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Agustus Mine
Mining Areas, 200-ft Buffer and Structures

Map Key
- No=Structures with no reported effects
- Room-and-Pillar
- 200-ft Buffer

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh

Somerset County
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Agustus Mine
Mining Areas, Watersources and RPZ

Map Key
- Watersource with reported effects
- Watersource with no reported effects
- Room-and-Pillar
- RPZ

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Bailey Mine
Mining Areas and Overburden Contours

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Bailey Mine
Mining Areas, 200-ft Buffer and Structures

Map Key
- No=Structures with no reported effects
- Yes=Structures with reported effects
- Room-and-Pillar
- Longwall Panel
- 200-ft Buffer

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh
Bailey Mine
Mining Areas, Watersources and RPZ

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Beaver Valley Mine
Mining Areas, Major Roads and Streams

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Beaver Valley Mine
Mining Areas and Overburden Contours

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Beaver Valley Mine
Mining Areas, 200-ft Buffer and Structures

Map Key
- No=Structures with no reported affects
- Room-and-Pillar
- 200-ft Buffer

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh
Beaver Valley Mine
Mining Areas, Watersources and RPZ

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Map Key

+ Watersources with reported effects
O Watersources with no reported effects
Room-and-Pillar
RPZ

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh
Blacksville No.2 Mine
Mining Areas, Major Roads and Streams

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Blacksville No.2 Mine
Mining Areas and Overburden Contours

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Blacksville No.2 Mine
Mining Areas, 200-ft Buffer and Structures

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Blacksville No.2 Mine
Mining Areas, Watersources and RPZ

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Cherry Tree Mine
Mining Areas, Major Roads and Streams
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Cherry Tree Mine
Mining Areas, 200-ft and Structures

Map Key
- No=Structures with no reported effects
- Room-and-Pillar
- 200-ft Buffer

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh
Cherry Tree Mine
Mining Areas, Watersources and RPZ

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Clementine No.1 Mine
Mining Areas and Overburden Contours

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Clementine No.1 Mine
Mining Areas, 200-ft Buffer and Structures

Map Key
- Yes=Structures with reported effects
- No=Structures with no reported effects
- Room-and-Pillar
- 200-ft Buffer

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Clementine No.1 Mine
Mining Areas, Watersources and RPZ

Map Key
- Watersources with reported effects
- Watersources with no reported effects
- Room-and-Pillar
- RPZ

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh

Armstrong County

Kittanning
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Crawdad No.1 Mine
Mining Areas, Major Roads and Streams

Map Key
- Highways
- Streams
- State Roads
- Pillar Recovery
- Room-and-Pillar

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh
Crawdad No.1 Mine
Mining Areas and Overburden Contours

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Crawdad No.1 Mine
Mining Areas, 200-ft Buffer and Structures

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Cumberland Mine
Mining Areas, Major Roads and Streams

Map Key
- Highways
- Streams
- State Roads
- Longwall Panel
- Room-and-Pillar

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh

C_33
Cumberland Mine
Mining Areas and Overburden Contours

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Cumberland Mine
Mining Areas, 200-ft Buffer and Structures

Map Key
- Yes=Structures with reported effects
- No=Structures with no reported effects
- Longwall Panel
- Room-and-Pillar
- 200-ft Buffer

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh
Cumberland Mine
Mining Areas, Watersources and RPZ

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Darmac No.2 Mine
Mining Areas, Major Roads and Streams

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Darmac No.2 Mine
Mining Areas, 200-ft Buffer and Structures

Map Key
- No=Structures with no reported effects
- Room-and-Pillar
- 200-ft Buffer

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh

Armstrong County
Kittanning

C_39
Darmac No.2 Mine

Mining Areas, Watersources and RPZ

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Darmac No.3 Mine
Mining Areas and Overburden Contours

Map Key
- Overburden Contour
- Room-and-Pillar

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh

Armstrong County

C_42
Darmac No.3 Mine
Mining Areas, 200-ft Buffer and Structures

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)
Prepared by:
University of Pittsburgh

Map Key
- No = Structures with no reported effects
- Room-and-Pillar
- 200-ft Buffer

Armstrong County
Kittanning

C_43
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Dooley Run Mine
Mining Areas, Major Roads and Streams

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Dooley Run Mine
Mining Areas and Overburden Contours

Map Key
- Overburden Contour
- Pillar Recovery
- Room-and-Pillar

Notes:
a) Due to the viewing extent of the maps, every feature will not show because of overlap;
b) Counts of reported effects include features that could not be located spatially;
c) Several features had two reported effects and will only show one location on the map.
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Dooley Run Mine
Mining Areas, 200-ft Buffer and Structures

Map Key

No=Structures with no reported effects
Pillar Recovery
Room-and-Pillar
200-ft Buffer

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh
Dora No.8 Mine
Mining Areas, Major Roads and Streams

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Dora No.8 Mine
Mining Areas, 200-ft Buffer and Structures

Map Key

- No=Structures with no reported effects
- Room-and-Pillar
- 200-ft Buffer

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh

Indiana County
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Dora No.8 Mine
Mining Areas, Watersources and RPZ

Map Key
- Watersources with no reported effects
- Watersources with reported effects
- Room-and-Pillar
- RPZ

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh

Indiana County
Indiana
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Dunkard No.2 Mine
Mining Areas and Overburden Contours

Map Key
- Overburden Contour
- Pillar Recovery

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh

Waynesburg
Greene County
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Dutch Run Mine
Mining Areas, Major Roads and Streams

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Dutch Run Mine
Mining Areas and Overburden Contours

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Dutch Run Mine
Mining Areas, 200-ft Buffer and Structures

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Dutch Run Mine
Mining Areas, Watersources and RPZ

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh

Map Key
+ Watersources with reported effects
O Watersources with no reported effects
Room-and-Pillar
RPZ

Indiana County
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Eighty-Four
Mining Areas and Overburden Contours

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Eighty-Four
Mining Areas, 200-ft Buffer and Structures

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh

Map Key

- Yes=Structures with reported effects
- No=Structures with no reported effects
- Longwall Panel
- Room-and-Pillar
- 200-ft Buffer
Eighty-Four Mining Areas, Watersources and RPZ

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Map Key
- + Watersources with reported effects
- ○ Watersources with no reported effects
- □ Longwall Panel
- ■ Room-and-Pillar
- □ RPZ

Note: There are six watersources with reported effects that are far from mining and are not included here for display purposes.

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh
Emerald Mine
Mining Areas, Major Roads and Streams

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Emerald Mine
Mining Areas, 200-ft Buffer and Structures

Map Key
- No=Structures with no reported effects
- Yes=Structures with reported effects
- Longwall Panel
- Room-and-Pillar
- 200-ft Buffer

Waynesburg
Greene County

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Emerald Mine
Mining Areas, Watersources and RPZ

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Enlow Fork Mine
Mining Areas and Overburden Contours

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Enlow Fork Mine
Mining Areas, 200-ft Buffer and Structures

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Genesis No.17 Mine
Mining Areas, Major Roads and Streams

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Genesis No.17 Mine
Mining Areas and Overburden Contours

Map Key
- Overburden Contour
- Room-and-Pillar

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Genesis No.17 Mine
Mining Areas, 200-ft Buffer and Structures

Map Key
- No=Structures with no reported effects
- Room-and-Pillar
- 200-ft Buffer

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh
Genesis No.17 Mine
Mining Areas, Watersources and RPZ

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Map Key

+ Watersources with reported effects
○ Watersources with no reported effects
Room-and-Pillar
RPZ

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh
Geronimo Mine
Mining Areas, Major Roads and Streams

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh

Map Key
- Highways
- Streams
- State Roads
- Room-and-Pillar

Somerset County
Somerset
Geronimo Mine
Mining Areas and Overburden Contours

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Map Key
- Overburden Contour
- Room-and-Pillar

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh

Somerset County

C_76
Geronimo Mine
Mining Areas, 200-ft Buffer and Structures

Map Key

- No=Structures with no reported effects
- Room-and-Pillar
- 200-ft Buffer

Notes:

a) Due to the viewing extent of the maps, every feature will not show because of overlap;
b) Counts of reported effects include features that could not be located spatially;
c) Several features had two reported effects and will only show one location on the map.
Geronimo Mine
Mining Areas, Watersources and RPZ

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Gillhouser Run Mine
Mining Areas, Major Roads and Streams

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Gillhouser Run Mine
Mining Areas and Overburden Contours

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Map Key
- Overburden Contour
- Room-and-Pillar

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh

Indiana County

C_80
Gillhouser Run Mine
Mining Areas, 200-ft Buffer and Structures

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Gillhouser Run Mine
Mining Areas, Watersources and RPZ

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Map Key
- Watersources with reported effects
- Watersources with no reported effects
- Room-and-Pillar
- RPZ

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh

Note: The second reported effect is located far from mining and is not depicted here for display purposes.

Indiana County
Indiana
High Quality Mine
Mining Areas, Major Roads and Streams

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
High Quality Mine
Mining Areas, 200-ft Buffer and Structures

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Map Key
- Yes=Structures with reported effects
- No=Structures with no reported effects

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh
High Quality Mine Mining Areas, Watersources and RPZ

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Map Key
- Watersources with reported effects
- Longwall Panel
- Room-and-Pillar
- RPZ

Prepared for: Pennsylvania Department of Environmental Protection (DEP)
Prepared by: University of Pittsburgh

Washington County
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Josephine No.3 Mine
Mining Areas and Overburden Contours

Map Key
- Overburden Contour
- Room-and-Pillar

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh

Indiana County
Yes
No
Josephine No.3 Mine
Mining Areas, 200-ft Buffer and Structures

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh

Map Key
- Yes=Structures with reported effects
- No=Structures with no reported effects
- Room-and-Pillar
- 200-ft Buffer
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Josephine No.3 Mine
Mining Areas, Watersources and RPZ

Map Key
- Watersources with reported effects
- Watersources with no reported effects
- Room-and-Pillar
- RPZ

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh

Indiana County
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Keystone East Mine
Mining Areas and Overburden Contours

Map Key
- Overburden Contour
- Room-and-Pillar

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh

Armstrong County
Keystone East Mine
Mining Areas, 200-ft Buffer and Structures

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Little Toby Mine
Mining Areas, Major Roads and Streams

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Prepared for: Pennsylvania Department of Environmental Protection (DEP)
Prepared by: University of Pittsburgh

Map Key
- Highways
- Streams
- State Roads
- Room-and-Pillar

Elk County

Ridgeway

C_95
Little Toby Mine
Mining Areas and Overburden Contours

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Little Toby Mine
Mining Areas, 200-ft Buffer and Structures

Map Key

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<thead>
<tr>
<th>Color</th>
<th>Legend</th>
</tr>
</thead>
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<tr>
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<td>Structures with no reported effects</td>
</tr>
<tr>
<td>Room-and-Pillar</td>
<td></td>
</tr>
<tr>
<td>200-ft Buffer</td>
<td></td>
</tr>
</tbody>
</table>

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh

Elk County

Ridgeway

C_97
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Logansport Mine
Mining Areas, Major Roads and Streams

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Logansport Mine
Mining Areas and Overburden Contours

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Prepared for: Pennsylvania Department of Environmental Protection (DEP)
Prepared by: University of Pittsburgh

Map Key
- Overburden Contour
- Room-and-Pillar

Armstrong County
Kittanning

C_100
Logansport Mine
Mining Areas, 200-ft Buffer and Structures

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Logansport Mine
Mining Areas, Watersources and RPZ

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Map Key
- Watersources with no reported effects
- Watersources with reported effects
- Room-and-Pillar RPZ
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Madison Mine
Mining Areas and Overburden Contours

Map Key
- Overburden Contour
- Room-and-Pillar

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh

Cambria County
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Madison Mine
Mining Areas, 200-ft Buffer and Structures

Map Key
- No=Structures with no reported effects
- Room-and-Pillar
- 200-ft Buffer

Prepared for: Pennsylvania Department of Environmental Protection (DEP)
Prepared by: University of Pittsburgh
Madison Mine
Mining Areas, Watersources and RPZ

Map Key

+ Watersources with reported effects
O Watersources with no reported effects

Room-and-Pillar
RPZ

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Miller Mine
Mining Areas, Major Roads and Streams

Map Key
- Highways
- Streams
- State Roads
- Room-and-Pillar

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh
Miller Mine
Mining Areas and Overburden Contours

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Miller Mine
Mining Areas, 200-ft Buffer and Structures

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Map Key

- No=Structures with no reported effects
- Room-and-Pillar
- 200-ft Buffer

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh

Somerset County

C_109
Miller Mine
Mining Areas, Watersources and RPZ

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Map Key

- Watersources with reported effects
- Watersources with no reported effects
- Room-and-Pillar
- RPZ

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh

C_110
Nolo Mine
Mining Areas, Major Roads and Streams

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Nolo Mine
Mining Areas and Overburden Contours

Map Key
- Overburden Contour
- Pillar Recovery
- Room-and-Pillar

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Nolo Mine
Mining Areas, 200-ft Buffer and Structures

Map Key
- No=Structures with no reported effects
- Pillar Recovery
- Room-and-Pillar
- 200-ft Buffer

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh

Indiana County
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Nolo Mine
Mining Areas, Watersources and RPZ

Map Key
- **+** Watersources with reported effects
- **○** Watersources with no reported effects
- **blue** Pillar Recovery
- **green** Room-and-Pillar
- **blue** RPZ

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh

Indiana

Indiana County
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Ondo Mine
Mining Areas, Major Roads and Streams

Map Key
- Highways
- Streams
- State Roads
- Room-and-Pillar

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Ondo Mine
Mining Areas, 200-ft Buffer and Structures

Map Key
- Yes=Structures with reported effects
- No=Structures with no reported effects
- Room-and-Pillar
- 200-ft Buffer

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh

Indiana County
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Ondo Mine
Mining Areas, Watersources and RPZ

Map Key
- Watersources with reported effects
- Watersources with no reported effects
- Room-and-Pillar
- RPZ

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh

Indiana County
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Parkwood Mine
Mining Areas and Overburden Contours

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Parkwood Mine
Mining Areas, 200-ft Buffer and Structures

Map Key
- No=Structures with no reported effects
- Room-and-Pillar
- 200-ft Buffer

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh

Armstrong County

Kittanning

C_121
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Penfield Mine
Mining Areas, Major Roads and Streams

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh

Map Key
- Highways
- Streams
- State Roads
- Room-and-Pillar

Clearfield County
Penfield Mine
Mining Areas and Overburden Contours

Map Key

- Overburden Contour
- Room-and-Pillar

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh

Clearfield County
Penfield Mine
Mining Areas, 200-ft Buffer and Structures

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Penfield Mine
Mining Areas, Watersources and RPZ

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Penfield Mine
Mining Areas, Watersources and RPZ

Map Key

- Watersources with no reported effects
- Room-and-Pillar
- RPZ

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Penn View Mine
Mining Areas, Major Roads and Streams

Map Key
- Highways
- Streams
- State Roads
- Room-and-Pillar
Penn View Mine
Mining Areas and Overburden Contours

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh

Map Key
- Overburden Contour
- Room-and-Pillar
Penn View Mine
Mining Areas, 200-ft Buffer and Structures

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Map Key

- No=Structures with no reported effects
- Room-and-Pillar
- 200-ft Buffer

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh

Indiana County

C_129
Penn View Mine
Mining Areas, Watersources and RPZ

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Quecreek No.1 Mine
Mining Areas, Major Roads and Streams

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Quecreek No.1 Mine
Mining Areas and Overburden Contours

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Map Key
- Overburden Contour
- Room-and-Pillar

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Quecreek No.1 Mine
Mining Areas, Watersources and RPZ

Map Key
- Watersources with no reported effects
- Watersources with reported effects
- Room-and-Pillar
- RPZ

Prepared for: Pennsylvania Department of Environmental Protection (DEP)
Prepared by: University of Pittsburgh
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Rampside No.1 Mine
Mining Areas, 200-ft Buffer and Structures

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Ridge Mine
Mining Areas, Major Roads and Streams

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Ridge Mine
Mining Areas and Overburden Contours

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Map Key
- Overburden Contour
- Room-and-Pillar

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Ridge Mine
Mining Areas, 200-ft Buffer and Structures

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Rossmoyne No. 1 Mine
Mining Areas, Major Roads and Streams

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Rossmoyne No.1 Mine
Mining Areas, 200-ft Buffer and Structures

Map Key
- No=Structures with no reported effects
- Room-and-Pillar
- 200-ft Buffer

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh
Rossmoyne No.1 Mine
Mining Areas, Watersources and RPZ

Map Key

- Watersources with reported effects
- Watersources with no reported effects
- Room-and-Pillar
- RPZ

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Roystown Mine
Mining Areas, Major Roads and Streams

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Roystown Mine
Mining Areas and Overburden Contours

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Map Key

- Overburden Contour
- Room-and-Pillar

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Roytown Mine
Mining Areas, Watersources and RPZ

Map Key
- Watersources with no reported effects
- Watersources with reported effects
- Room-and-Pillar
- RPZ

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh
Sarah Mine
Mining Areas, Major Roads and Streams

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh

Map Key
- Highways
- Streams
- State Roads
- Room-and-Pillar
Sarah Mine
Mining Areas, 200-ft Buffer and Structures

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
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Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Shoemaker Mine
Mining Areas and Overburden Contours

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Shoemaker Mine
Mining Areas, 200-ft Buffer and Structures

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Shoemaker Mine
Mining Areas, Watersources and RPZ

Map Key
- Watersources with no reported effects
- Longwall Panel
- Room-and-Pillar
- RPZ

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Stitt Mine
Mining Areas, Major Roads and Streams

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Stitt Mine
Mining Areas, 200-ft Buffer and Structures

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Map Key
- Yes=Structures with reported effects
- No=Structures with no reported effects
- Room-and-Pillar
- 200-ft Buffer

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh

Armstrong County
Kittanning
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Titus Mine
Mining Areas, Major Roads and Streams

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Titus Mine
Mining Areas and Overburden Contours

Map Key
- Overburden Contour
- Pillar Recovery
- Room-and-Pillar

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh
Titus Mine
Mining Areas, 200-ft Buffer and Structures

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
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TJS No.5 Mine
Mining Areas and Overburden Contours

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh

Map Key
- Overburden Contour
- Room-and-Pillar

Armstrong County
TJS No.5 Mine
Mining Areas, 200-ft Buffer and Structures

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Map Key
- □ No=Structures with no reported effects
- □ Room-and-Pillar
- □ 200-ft Buffer

Armstrong County
TJS No.5 Mine
Mining Areas, Watersources and RPZ

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Map Key
- Watersources with no reported effects
- Room-and-Pillar
- RPZ

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh

Armstrong County
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
TJS No.6 Mine
Mining Areas and Overburden Contours

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Map Key
- Overburden Contour
- Room-and-Pillar

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh
TJS No.6 Mine
Mining Areas, 200-ft Buffer and Structures

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Map Key
- No=Structures with no reported affects
- Room-and-Pillar
- 200-ft Buffer

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh

Armstrong County

Kittanning

C_174
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Toms Run Mine
Mining Areas and Overburden Contours

Map Key
- Overburden Contour
- Room-and-Pillar

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh

Indiana County

C_177
Toms Run Mine
Mining Areas, 200-ft Buffer and Structures

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Toms Run Mine
Mining Areas, Watersources and RPZ

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
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Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Tracy Lynne Mine
Mining Areas, Watersources and RPZ

Note: Two water supplies with reported effects are far from mining and are not shown for display purposes.

Map Key
- Watersources with no reported effects
- Watersources with reported effects
- Room-and-Pillar
- RPZ

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh

Armstrong County

Kittanning

C_183
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Triple K No.1 Mine
Mining Areas and Overburden Contours

Map Key
- Overburden Contour
- Room-and-Pillar

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh

Armstrong County

Kittanning

C_185
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Triple K No.1 Mine
Mining Areas, 200-ft Buffer and Structures

Map Key
- Yes=Structures with reported effects
- No=Structures with no reported effects
- Room-and-Pillar
- 200-ft Buffer

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh

Armstrong County

Kittanning

C_186
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Twin Rocks Mine
Mining Areas, Major Roads and Streams

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
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Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Windber No.78 Mine
Mining Areas, Major Roads and Streams

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.
Windber No.78 Mine
Mining Areas, 200-ft Buffer and Structures

Map Key

- No=Structures with no reported effects
- Room-and-Pillar
- 200-ft Buffer

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.

Prepared for:
Pennsylvania Department of Environmental Protection (DEP)

Prepared by:
University of Pittsburgh

Cambria County

Ebensburg
Windber No.78 Mine
Mining Areas, Watersources and RPZ

Notes: a) Due to the viewing extent of the maps, every feature will not show because of overlap; b) Counts of reported effects include features that could not be located spatially; c) Several features had two reported effects and will only show one location on the map.