

# Appendix 1:

## 2D Profiles – Full for the Tolna Area

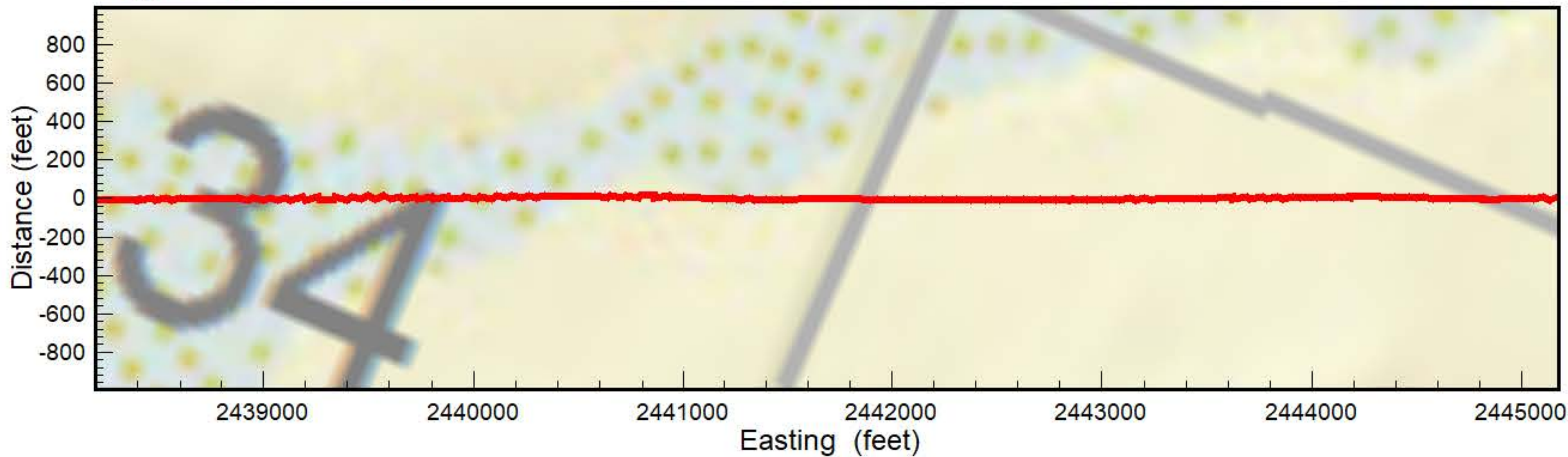
### Page

A1C-Final-2 – A1C-Final-63

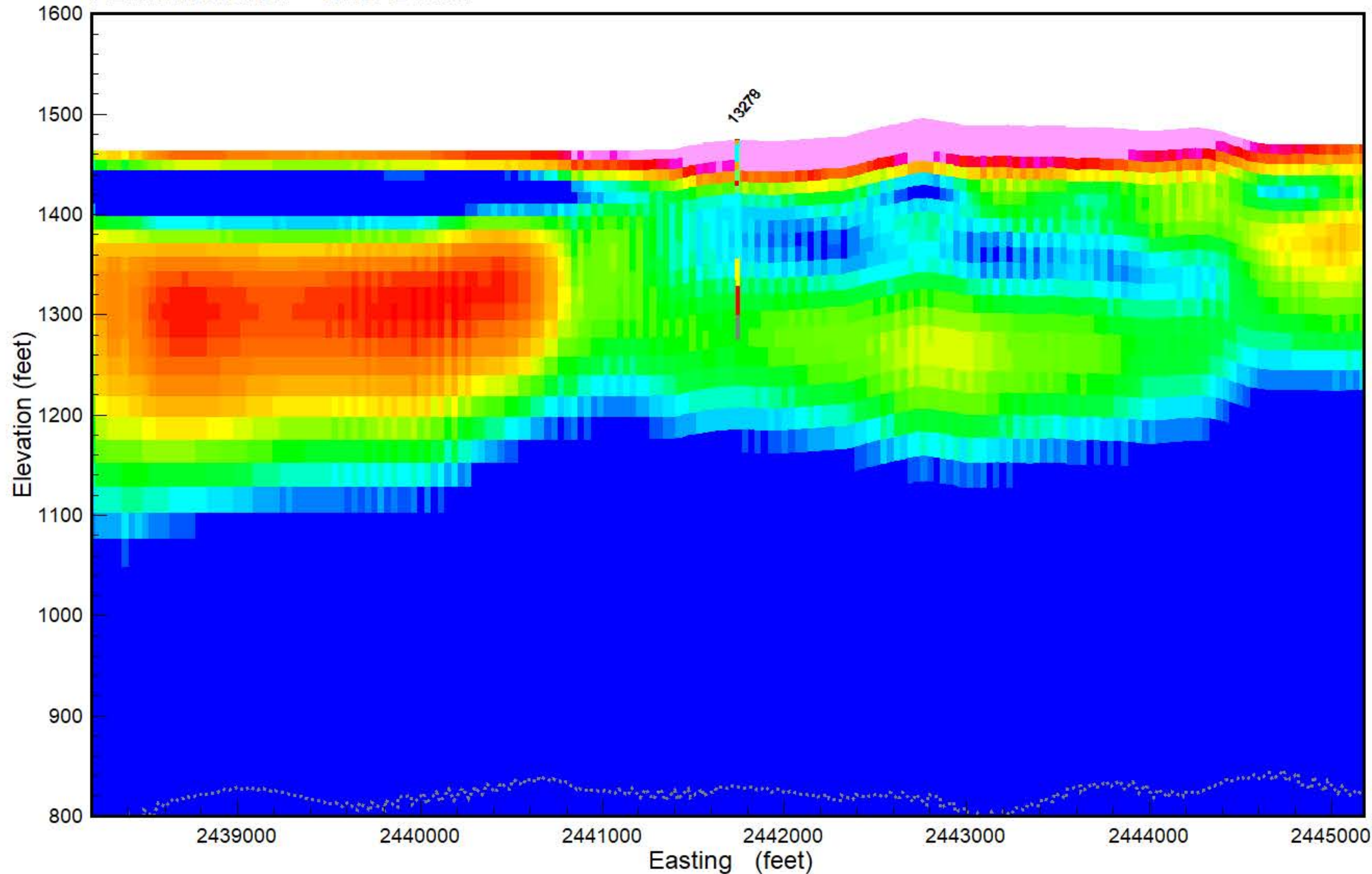
2D profiles for the Tolna AEM survey area with inverted resistivity profile, flight location map, and survey path map.



**Flight Path Line L1004**

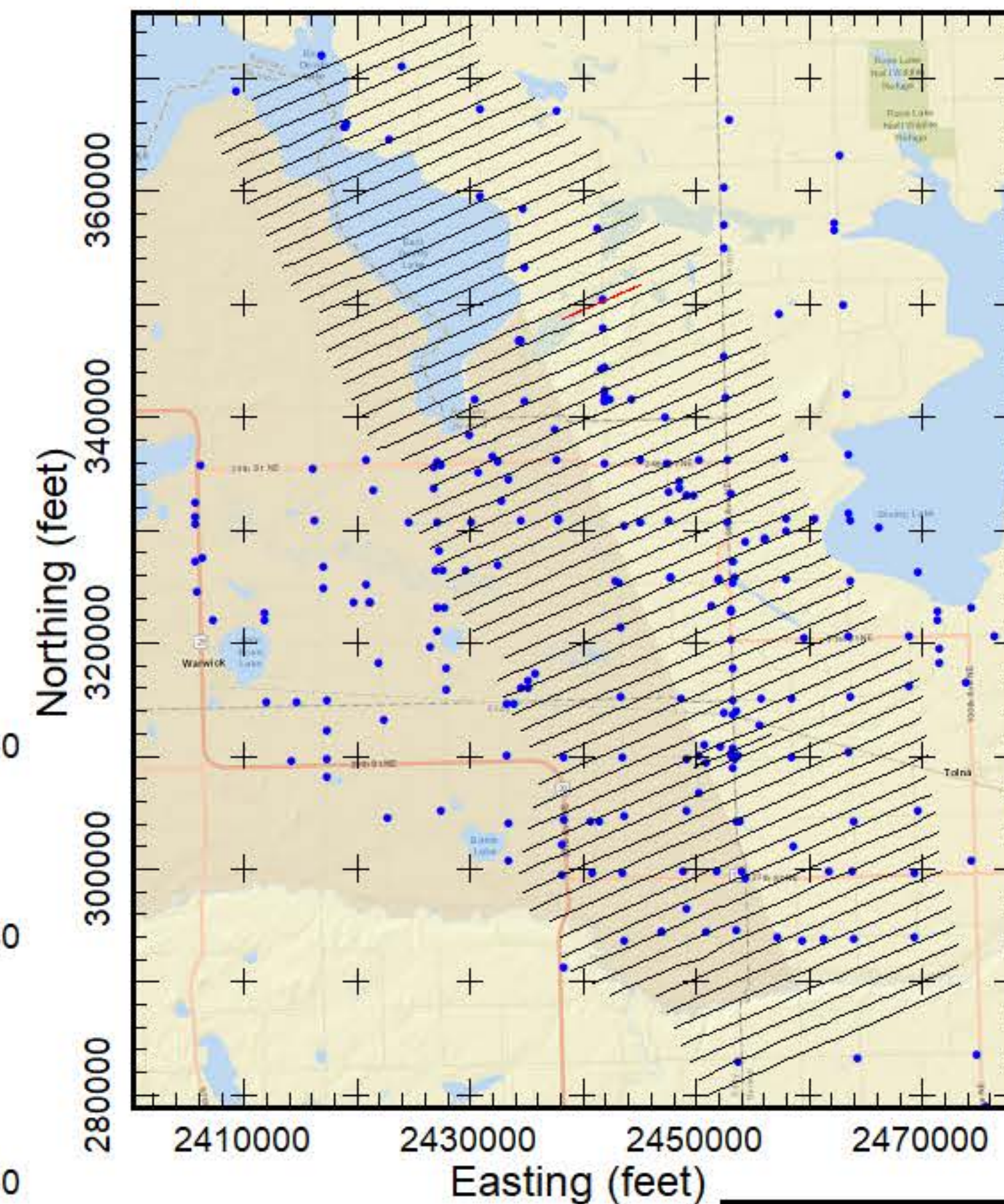


**AEM Inversion Line L1004**



**Flight Area Tolna**

**NORTH DAKOTA STATE WATER COMMISSION**  
 900 EAST BOULEVARD AVE, DEPT. 770  
 BISMARCK, ND 58505-0850



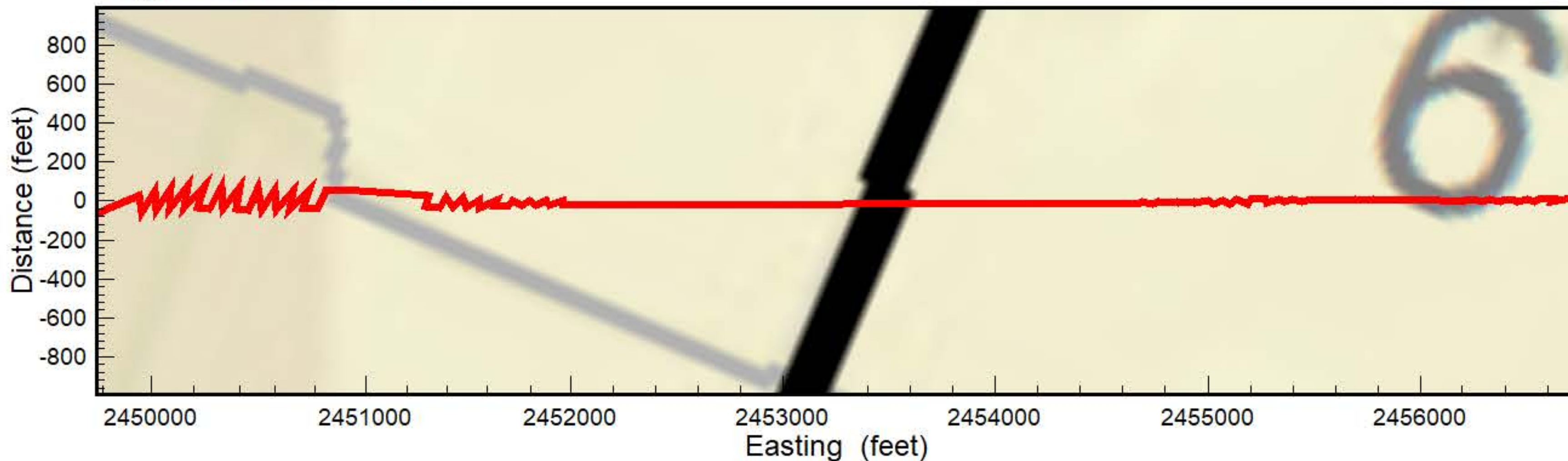
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- COBBLES
- BOULDER
- ROCK
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Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Tolna flight area from March 15-17, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 5.8.3. Boreholes are from the North Dakota State Water Commission Map service download October 2018 and are plotted within 1/4 mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

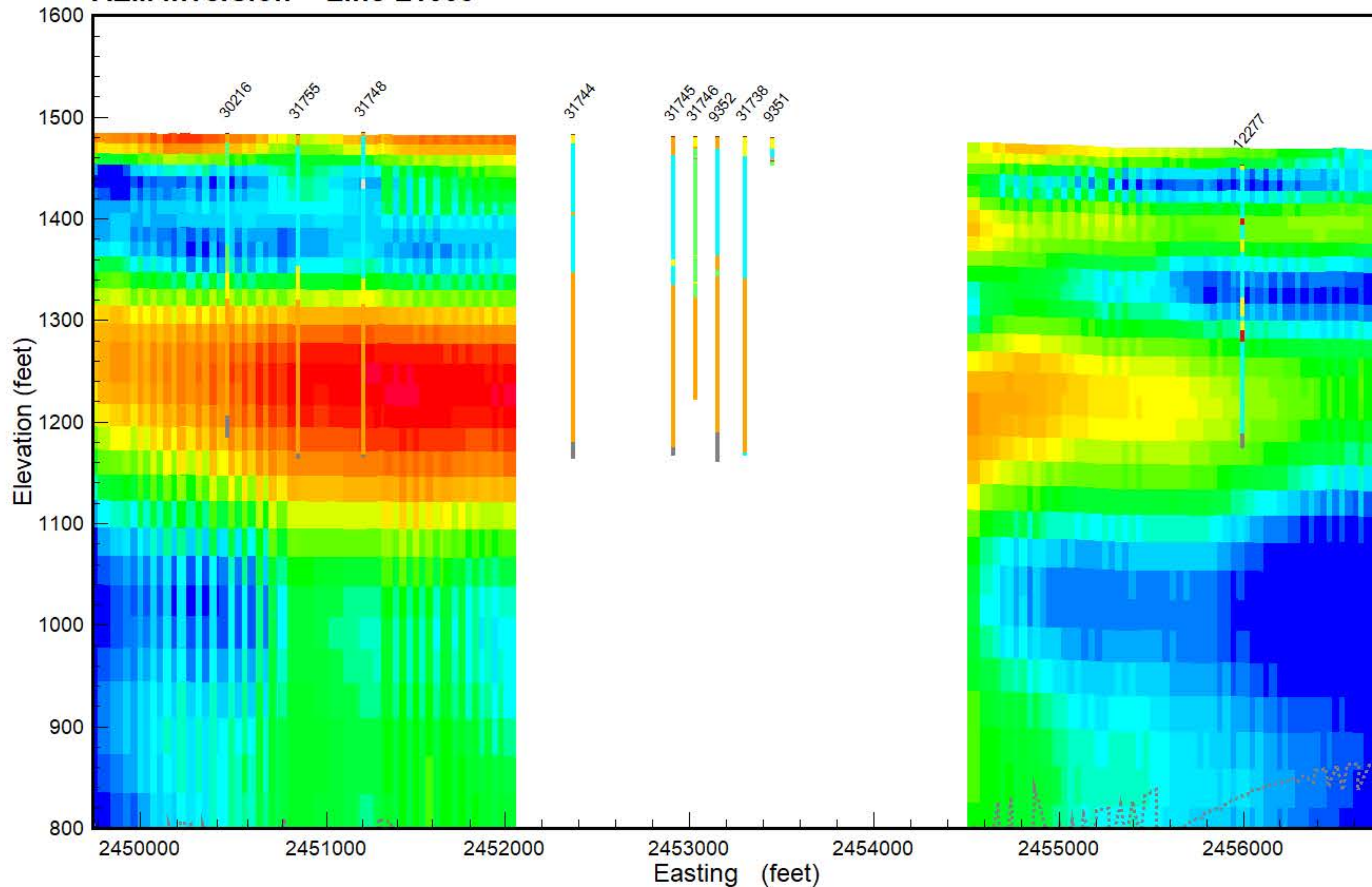




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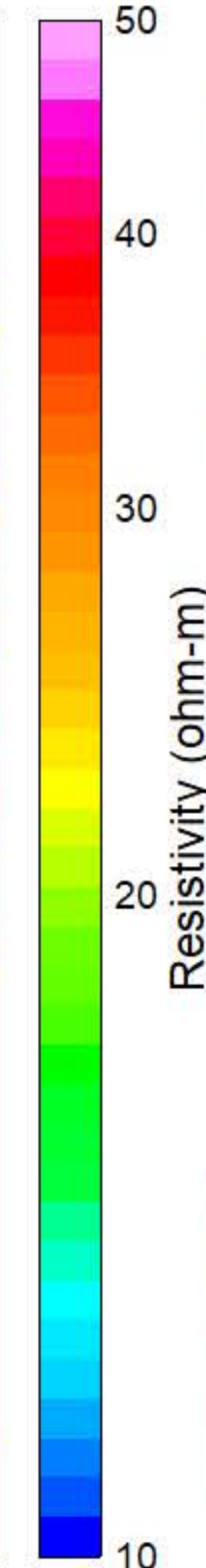
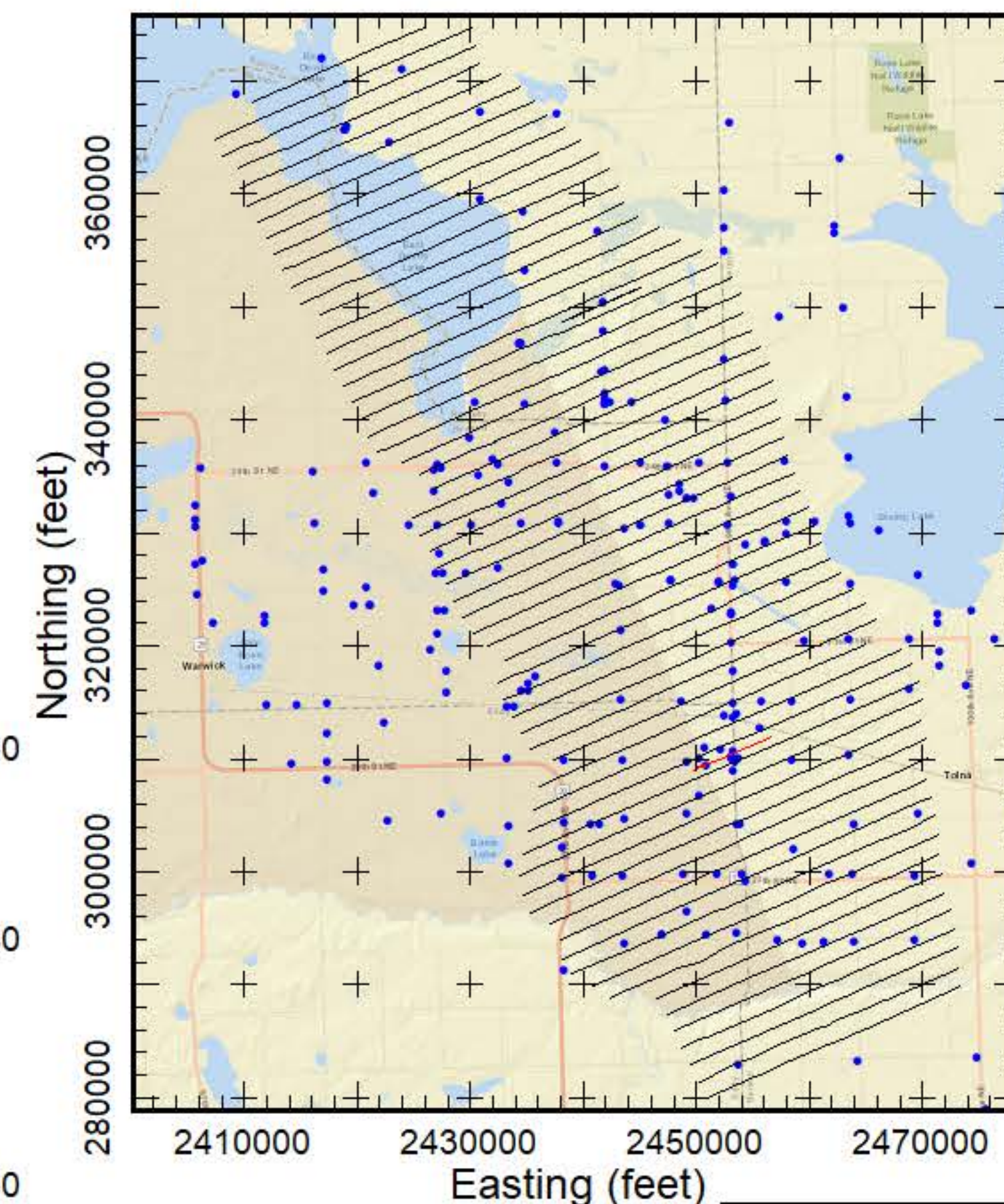


**AEM Inversion Line L1005**



**Flight Area Tolna**

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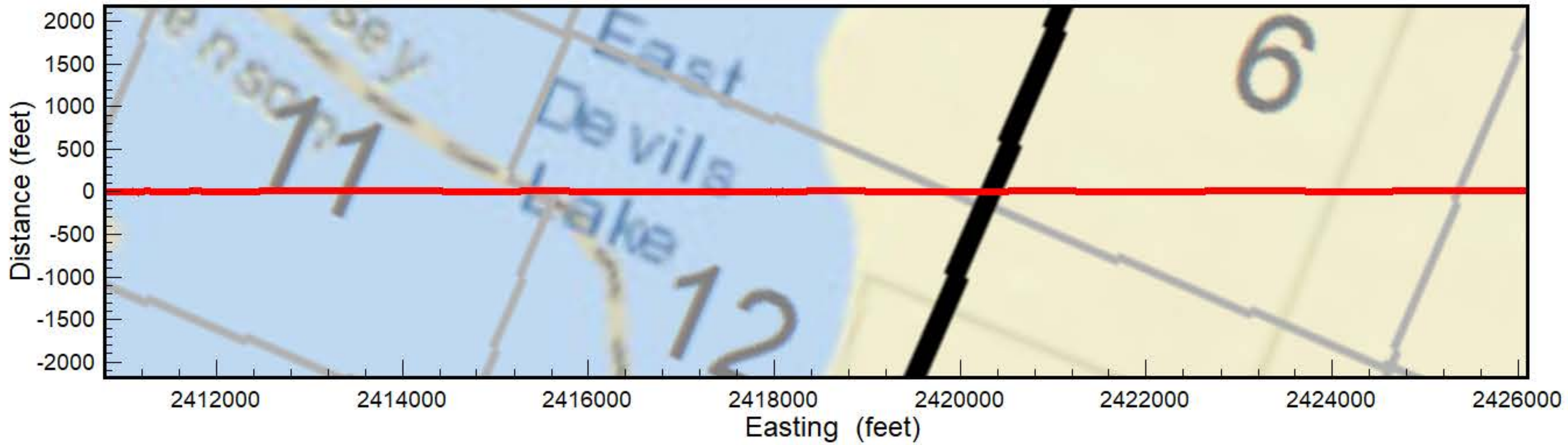
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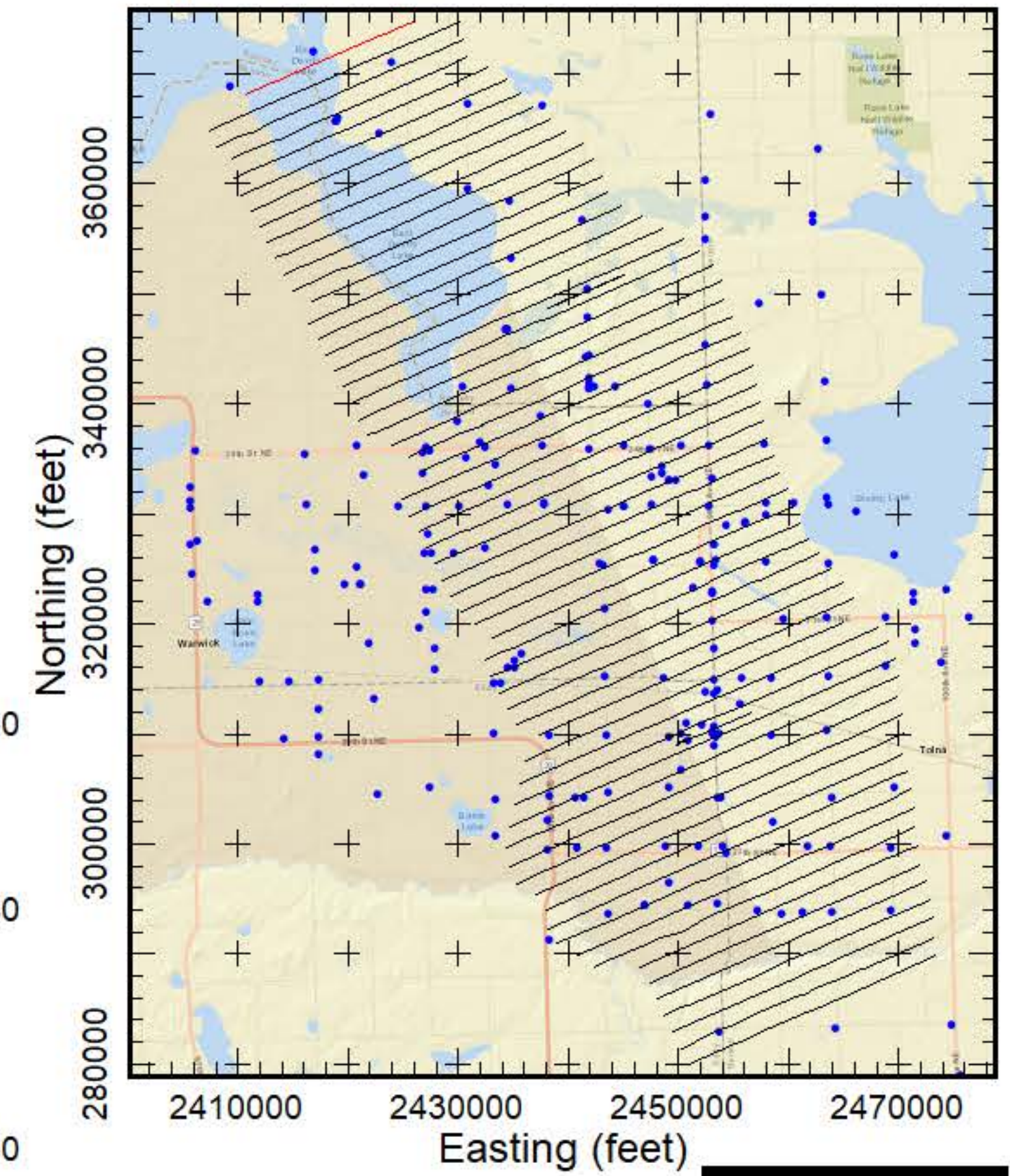




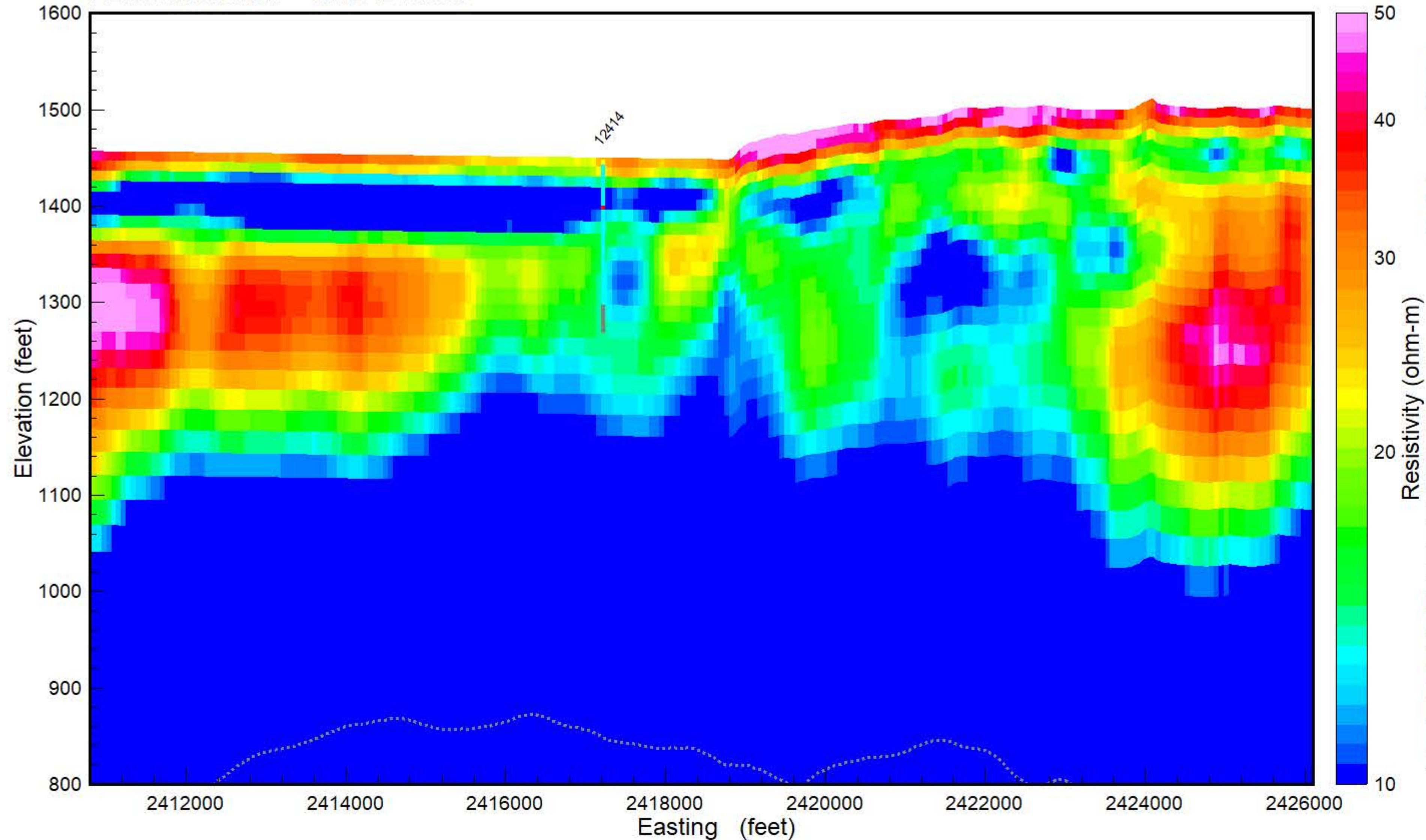
**Flight Path Line L10000**



**Flight Area Tolna**



**AEM Inversion Line L10000**



**GEOTECH**

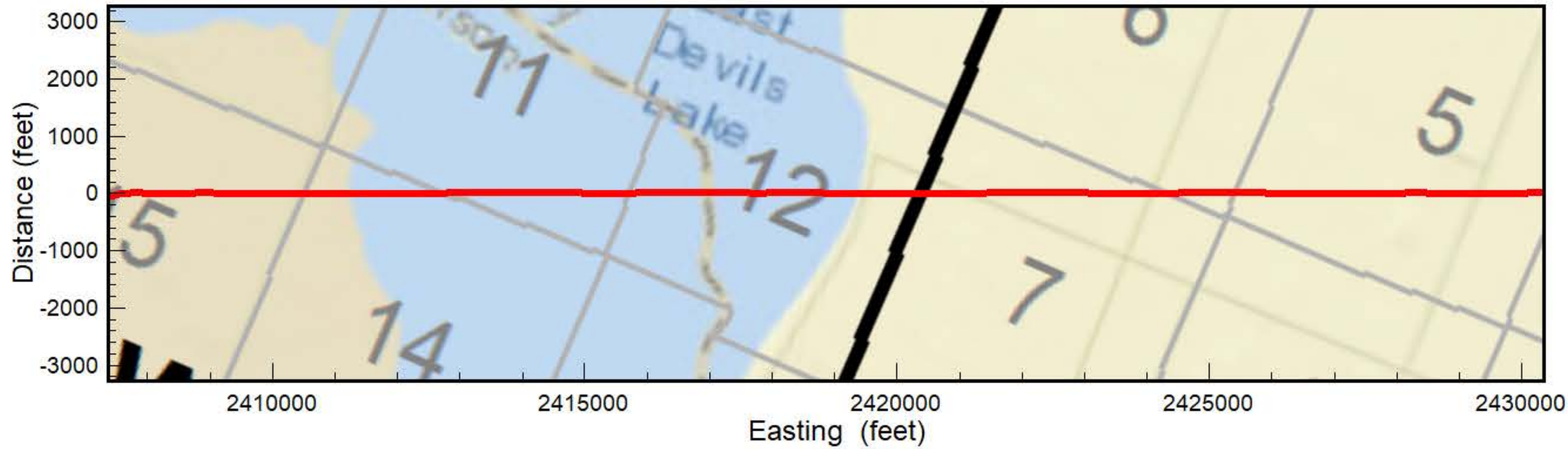
Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Tolna flight area from March 15-17, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 5.8.3. Boreholes are from the North Dakota State Water Commission Map service download October 2018 and are plotted within 1/4 mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

**AGF**  
 Aqua Geo Frameworks

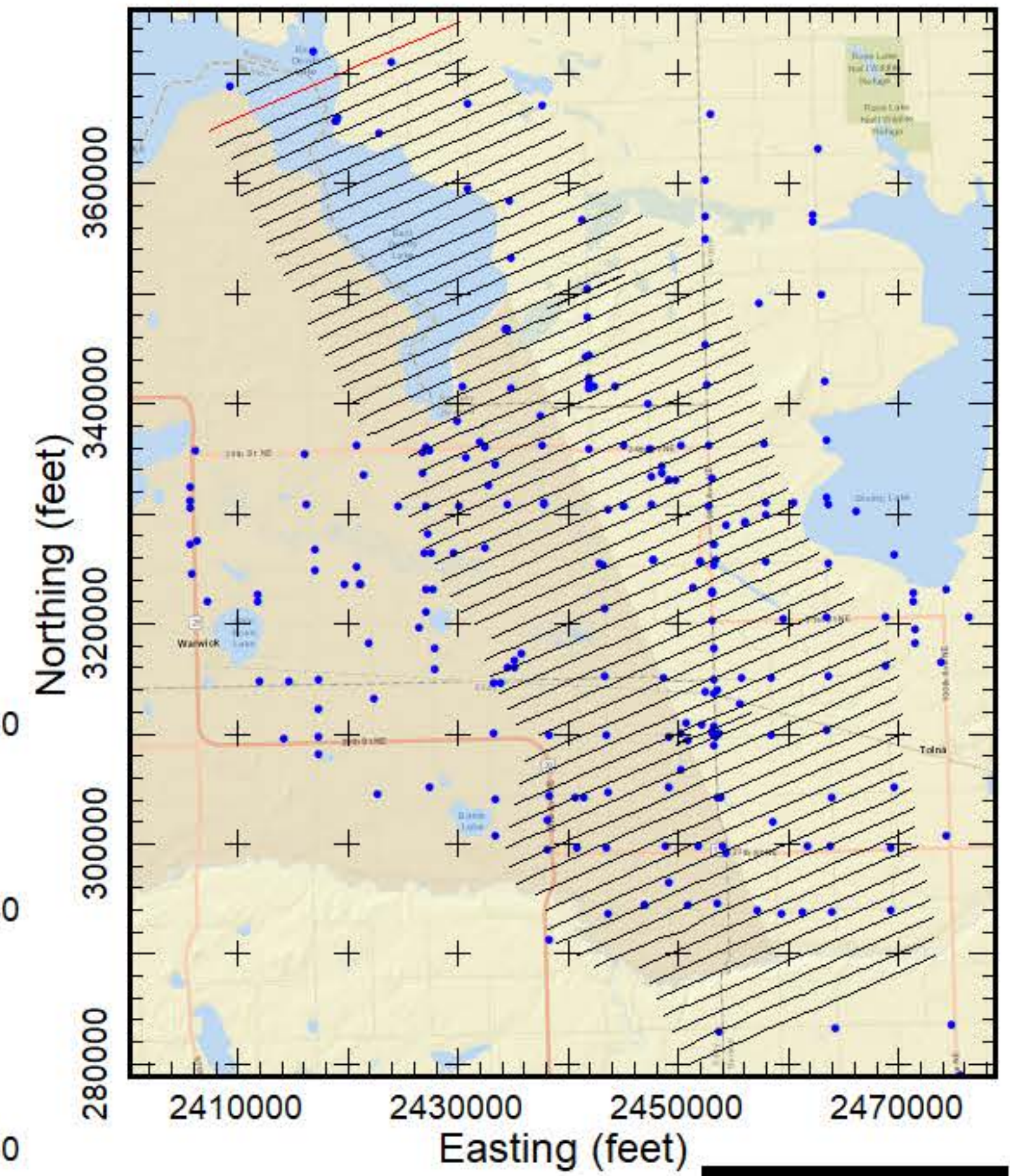
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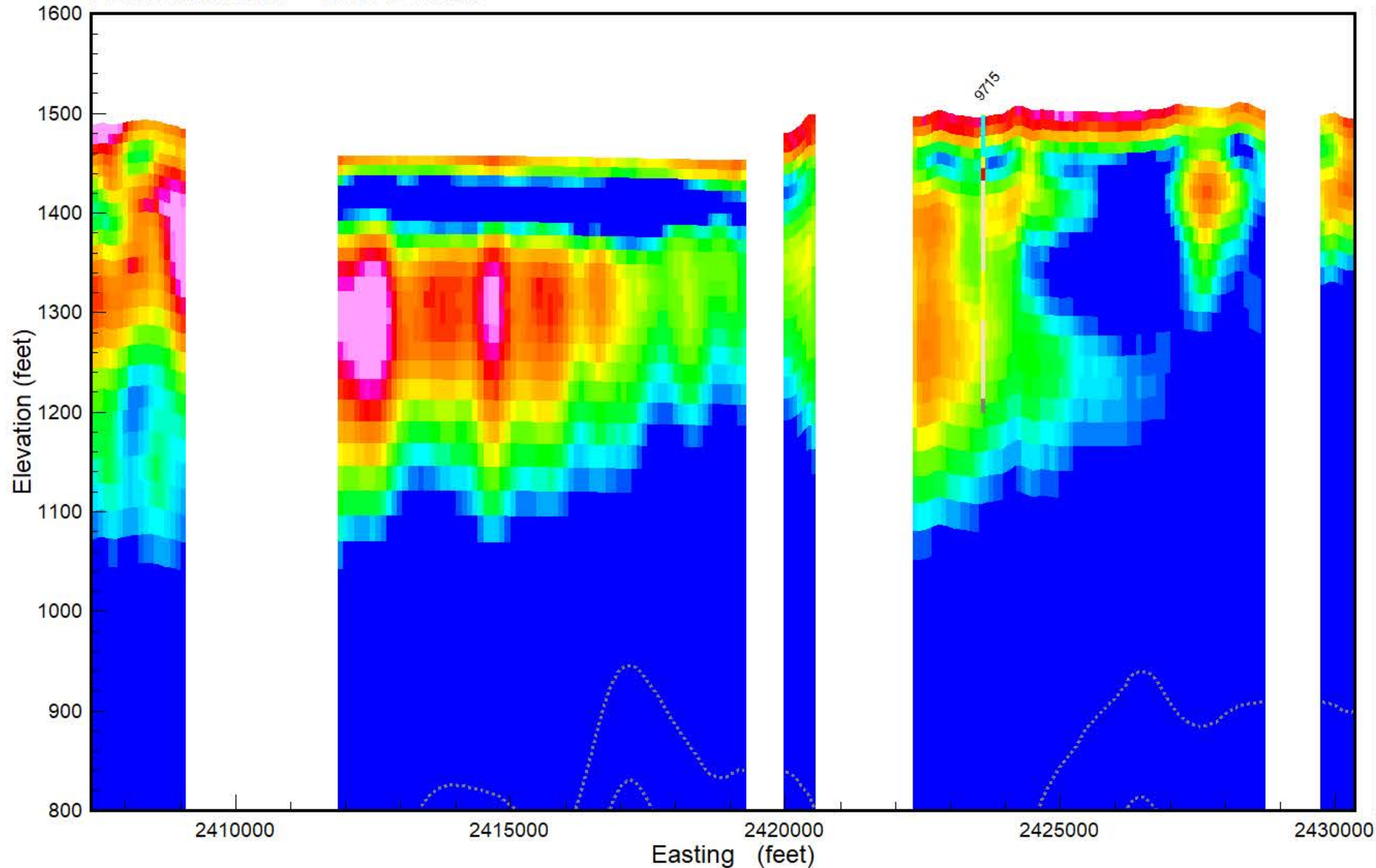
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**Flight Area Tolna**



**AEM Inversion Line L10010**

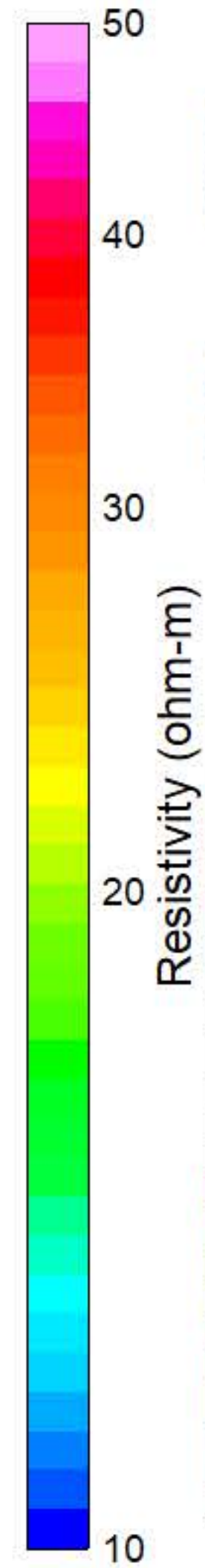
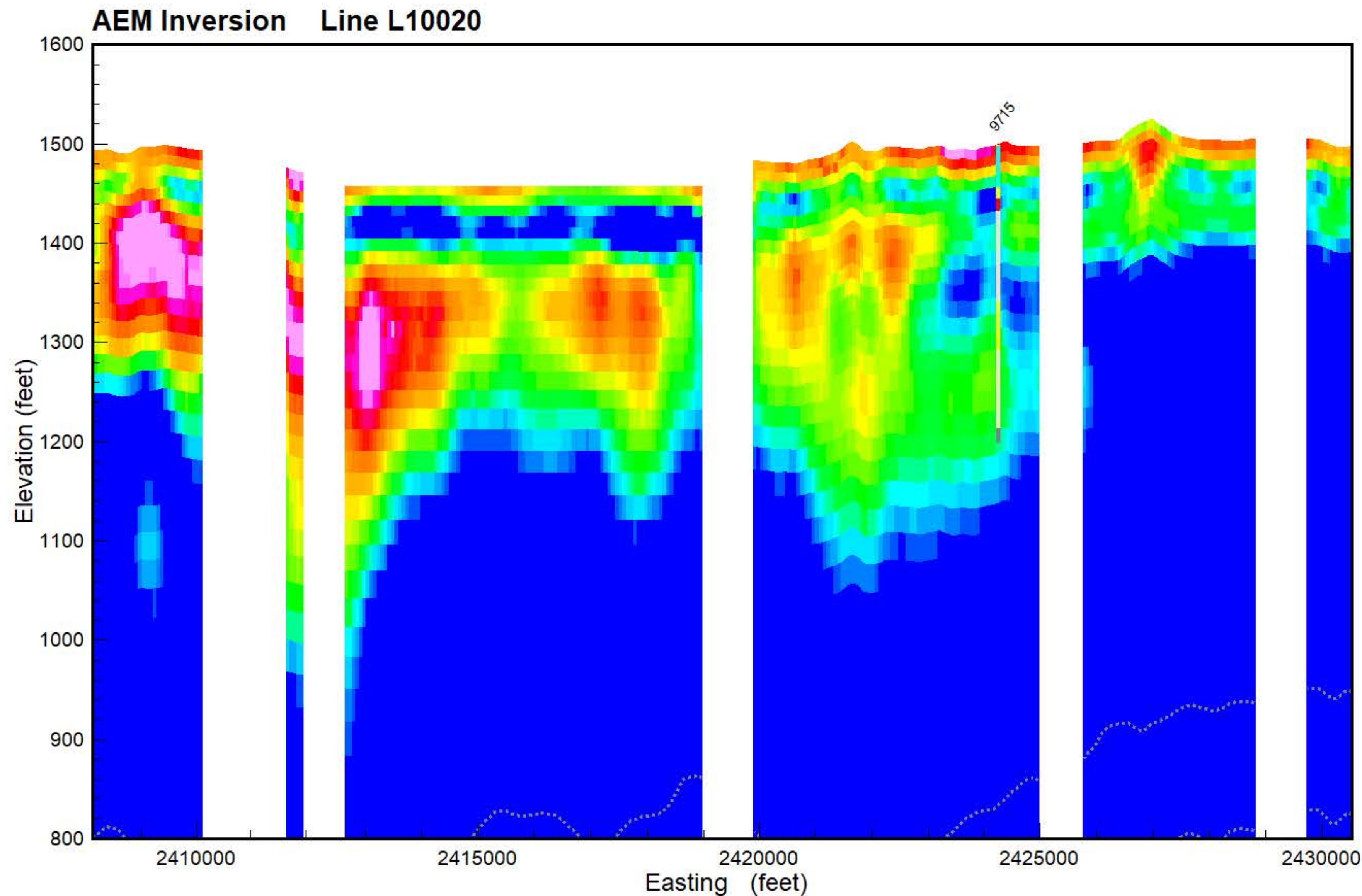
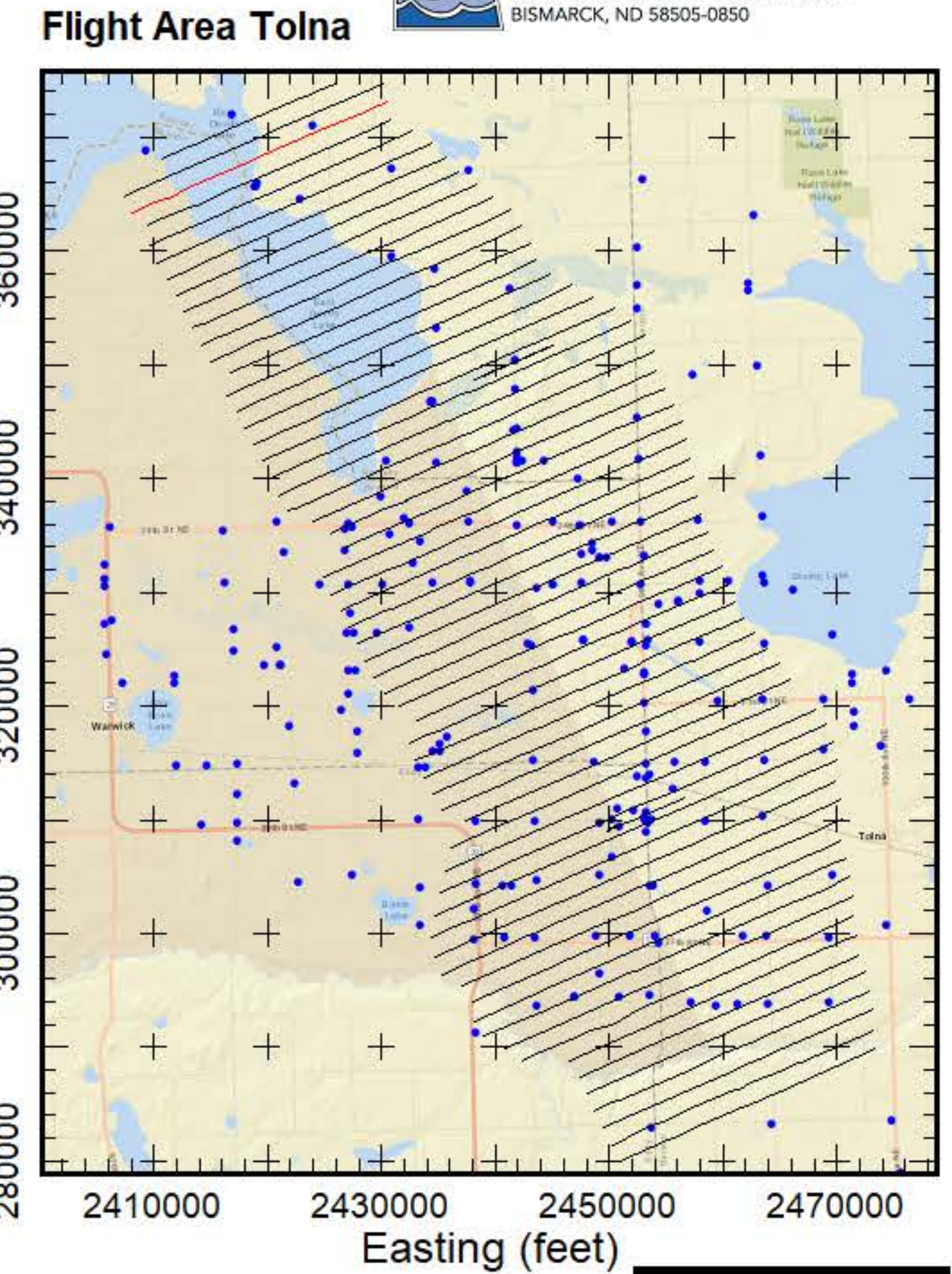
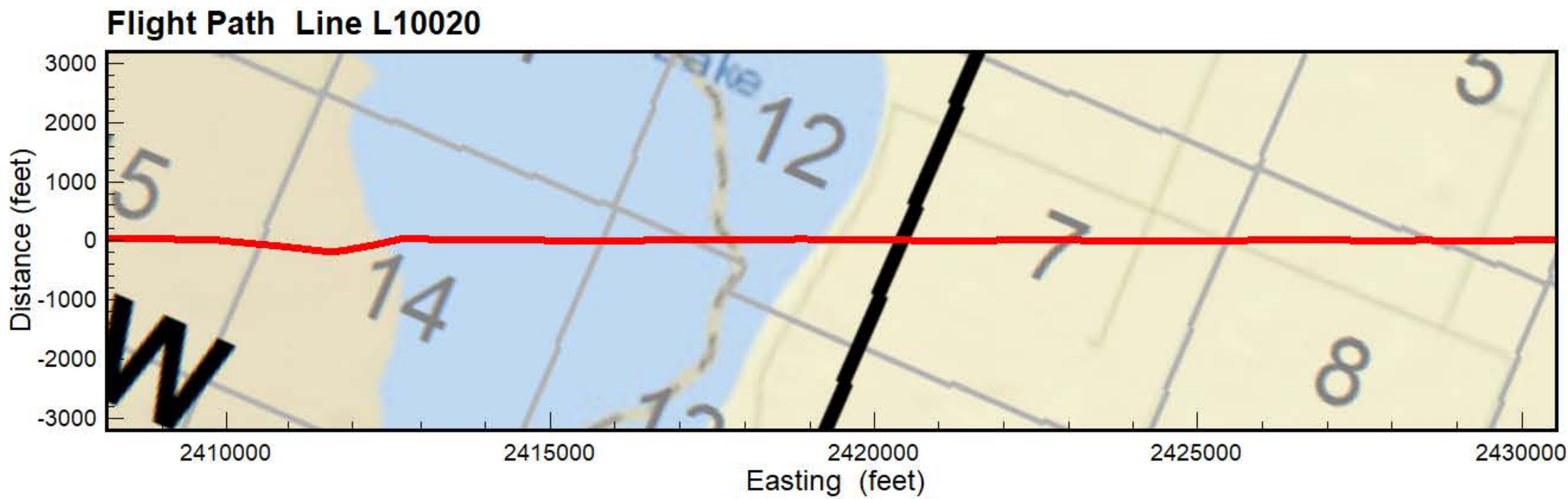


**GEOTECH**

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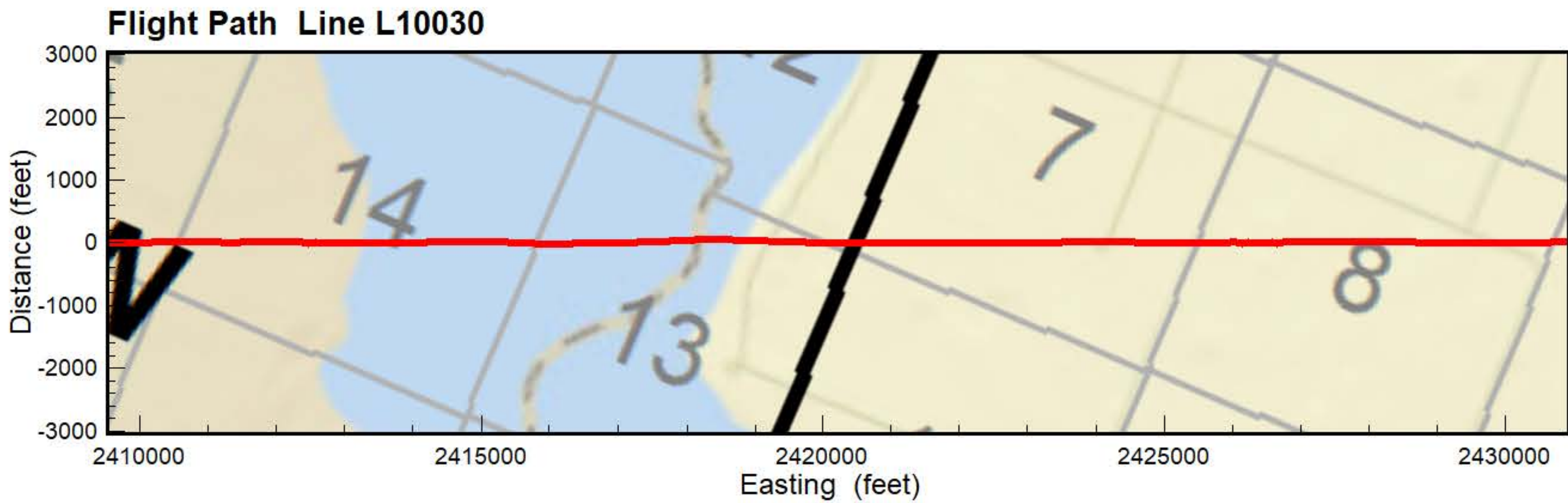


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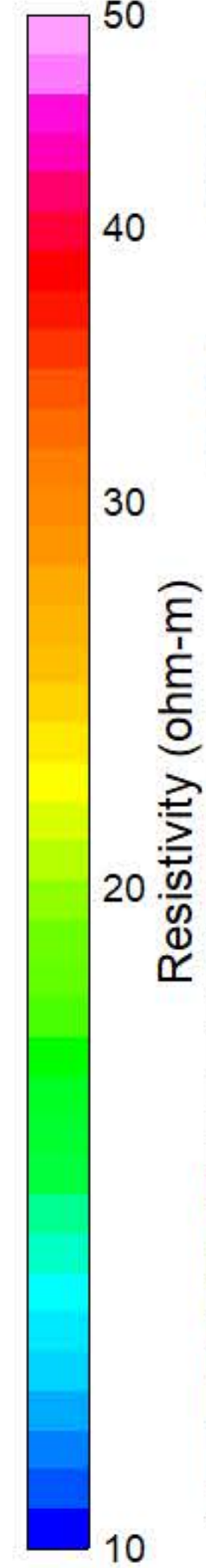
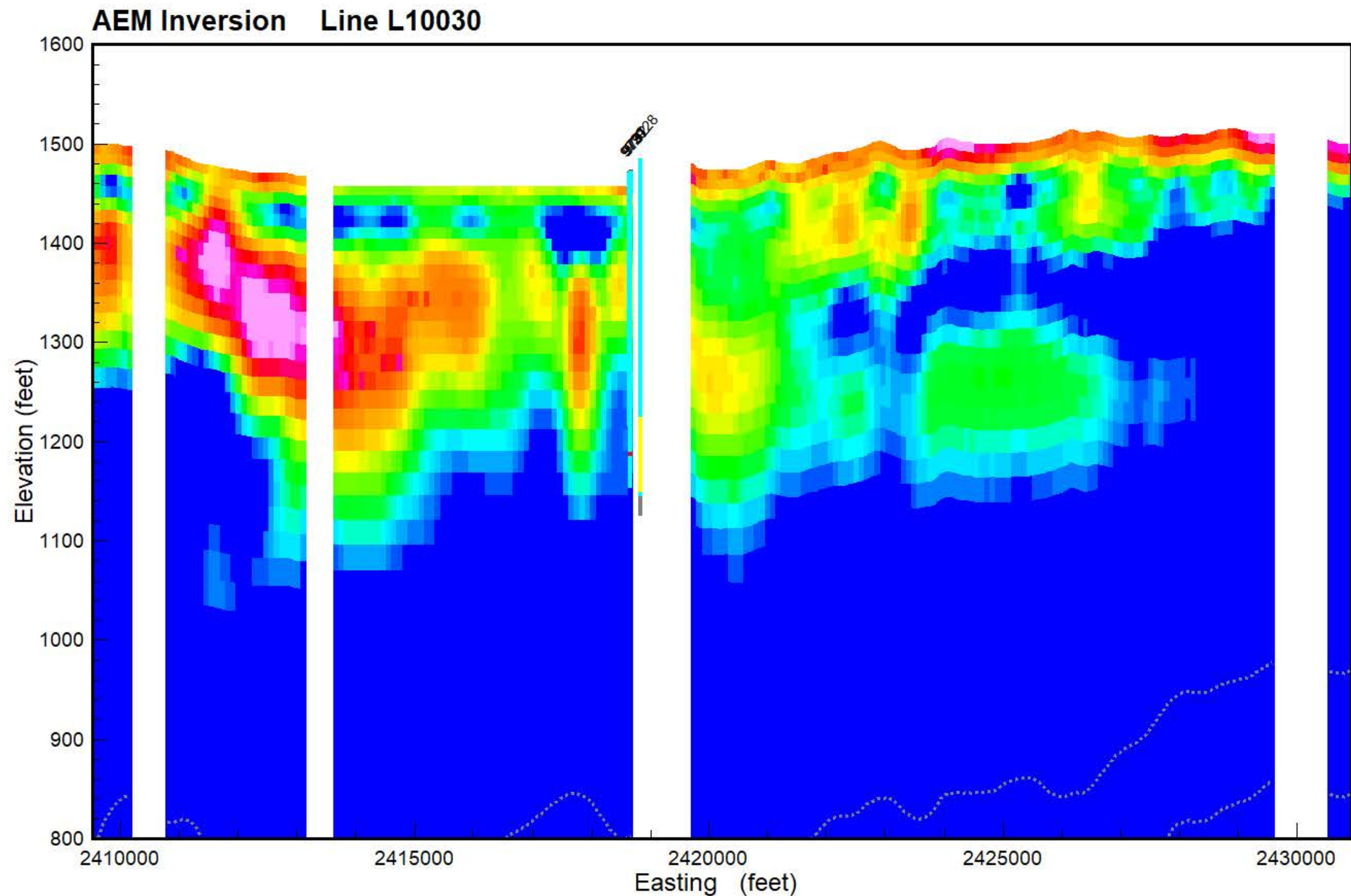
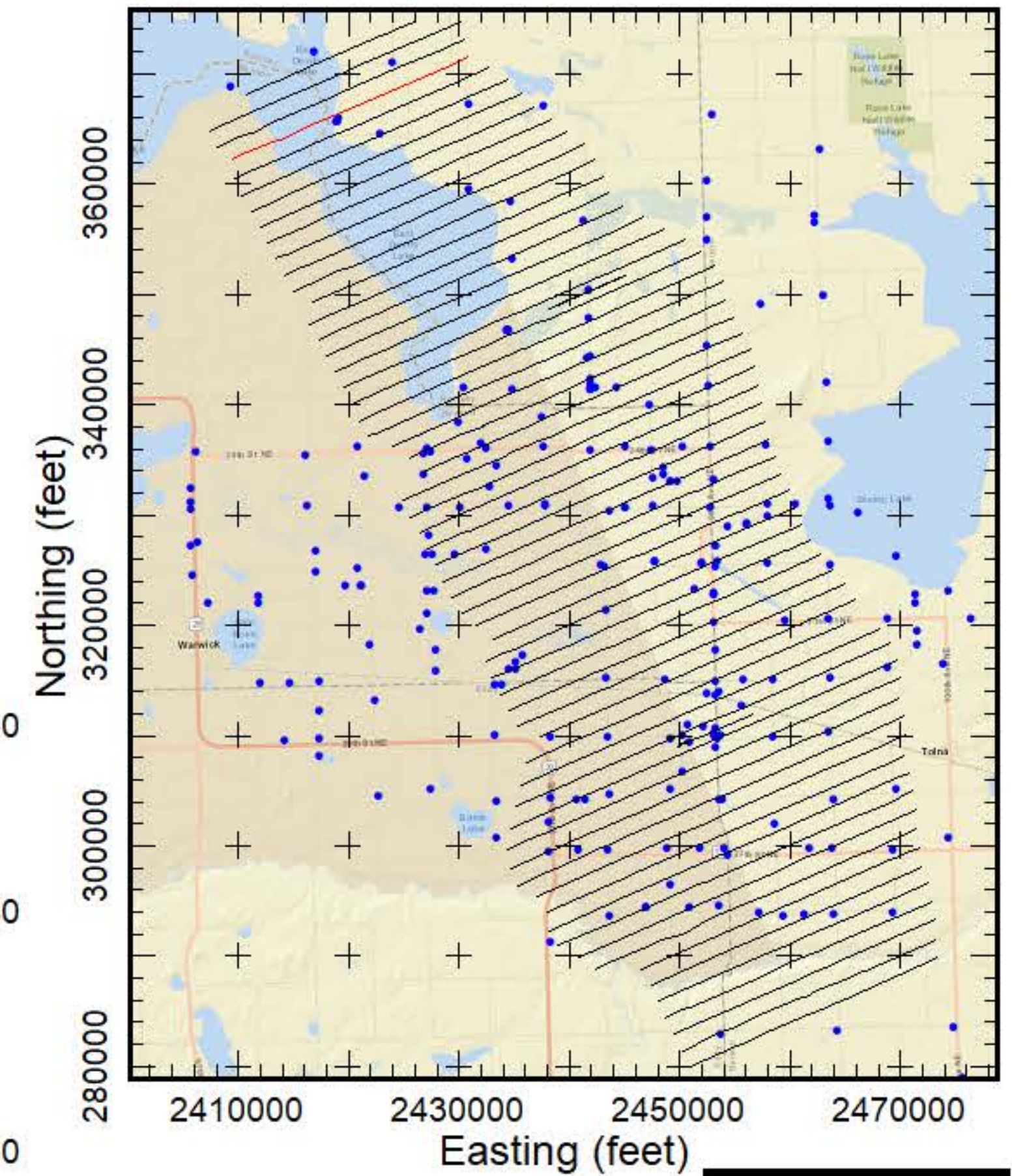
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### Flight Area Tolna

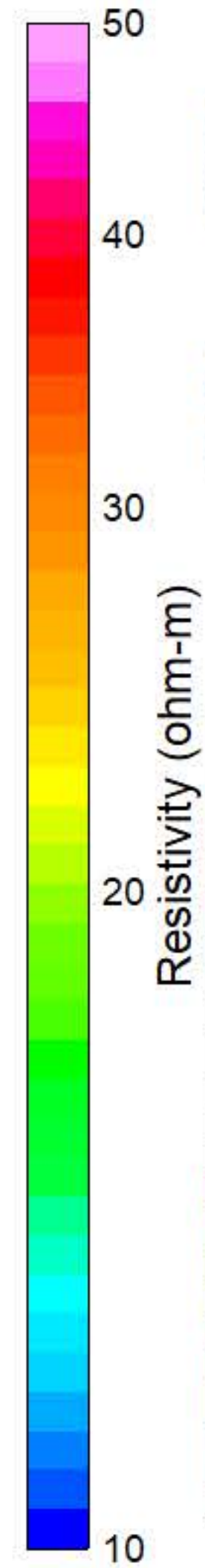
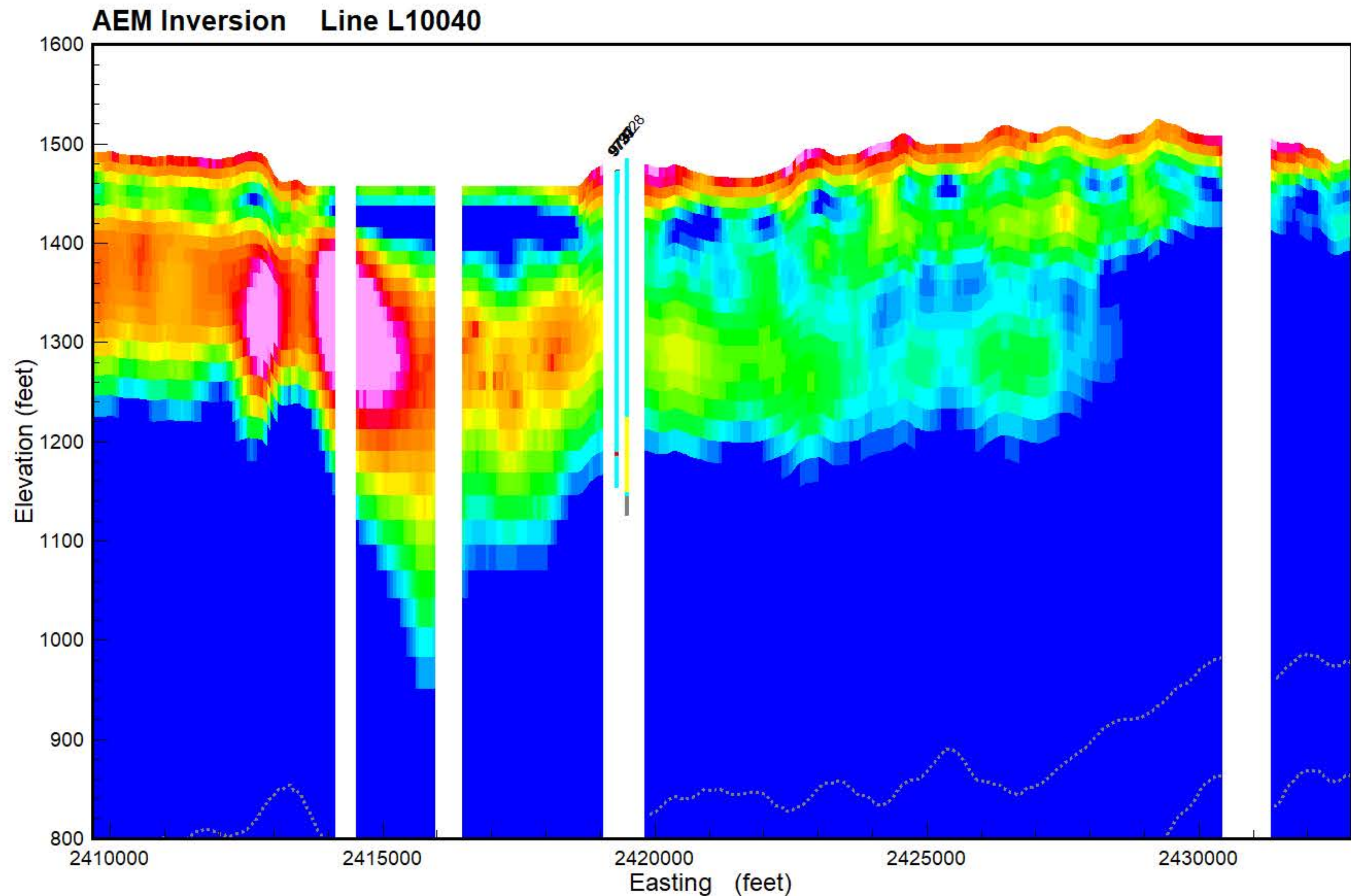
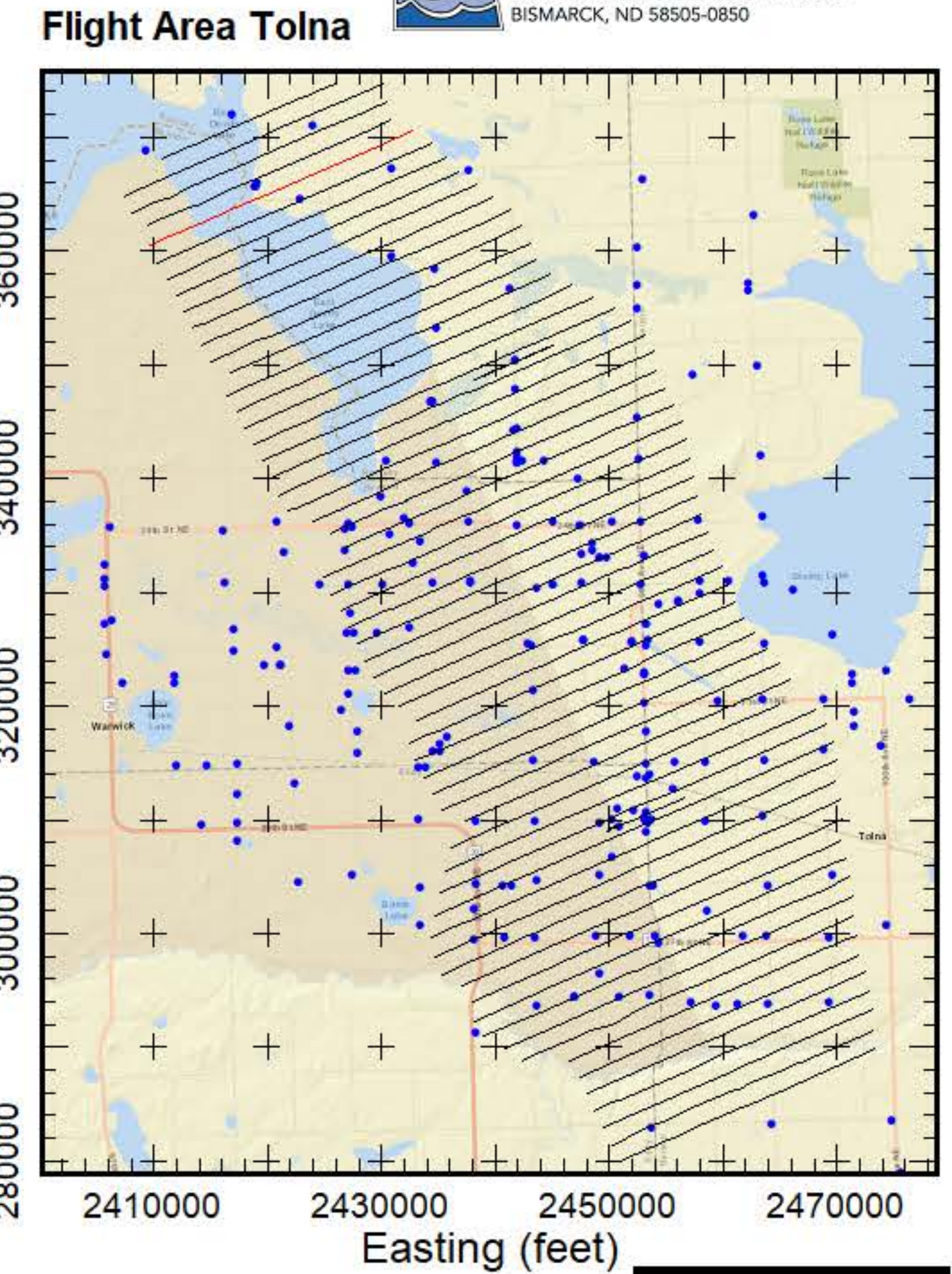
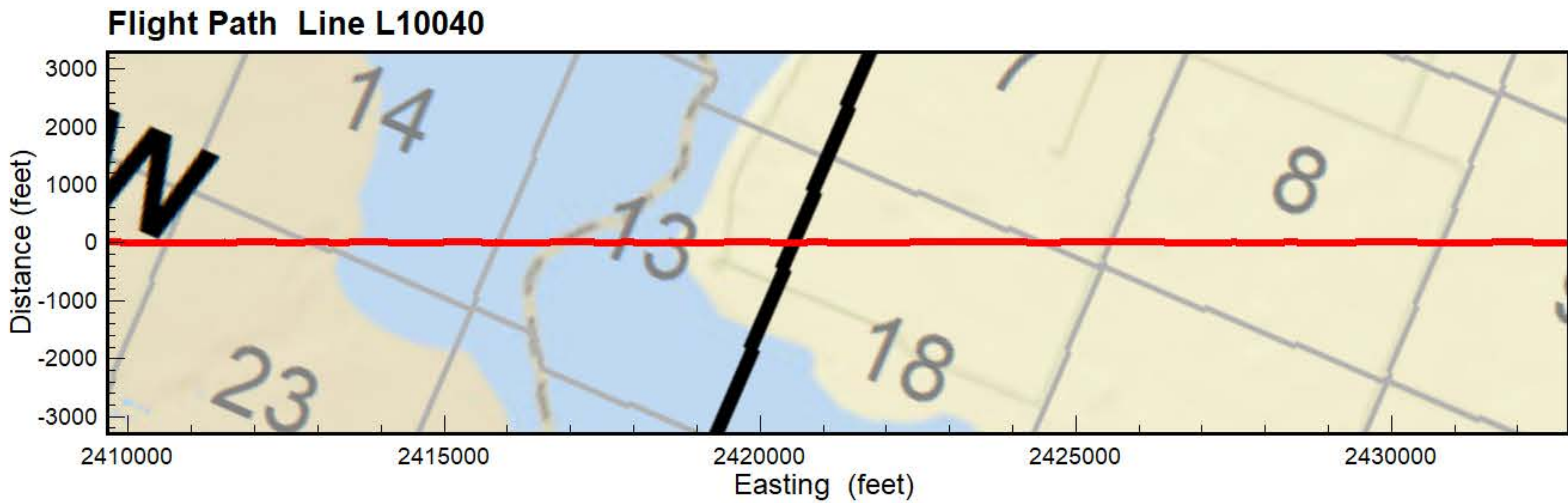


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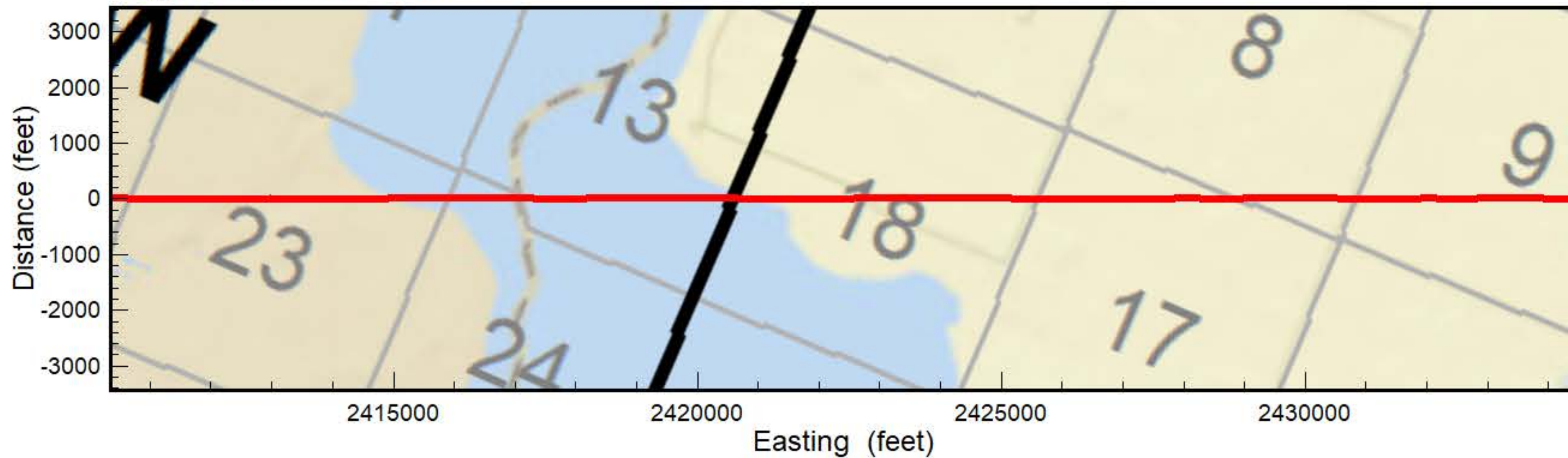
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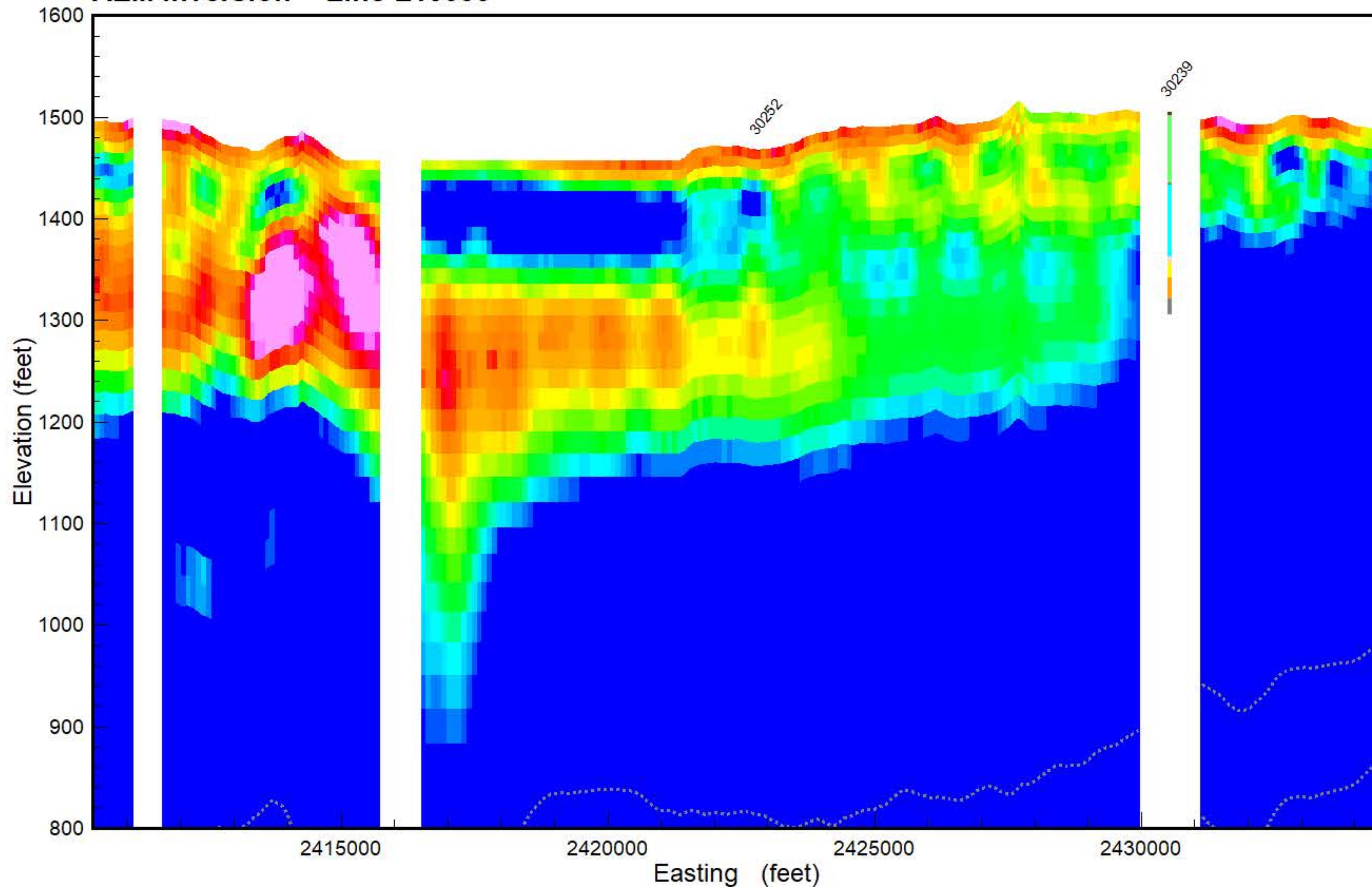




**Flight Path Line L10050**

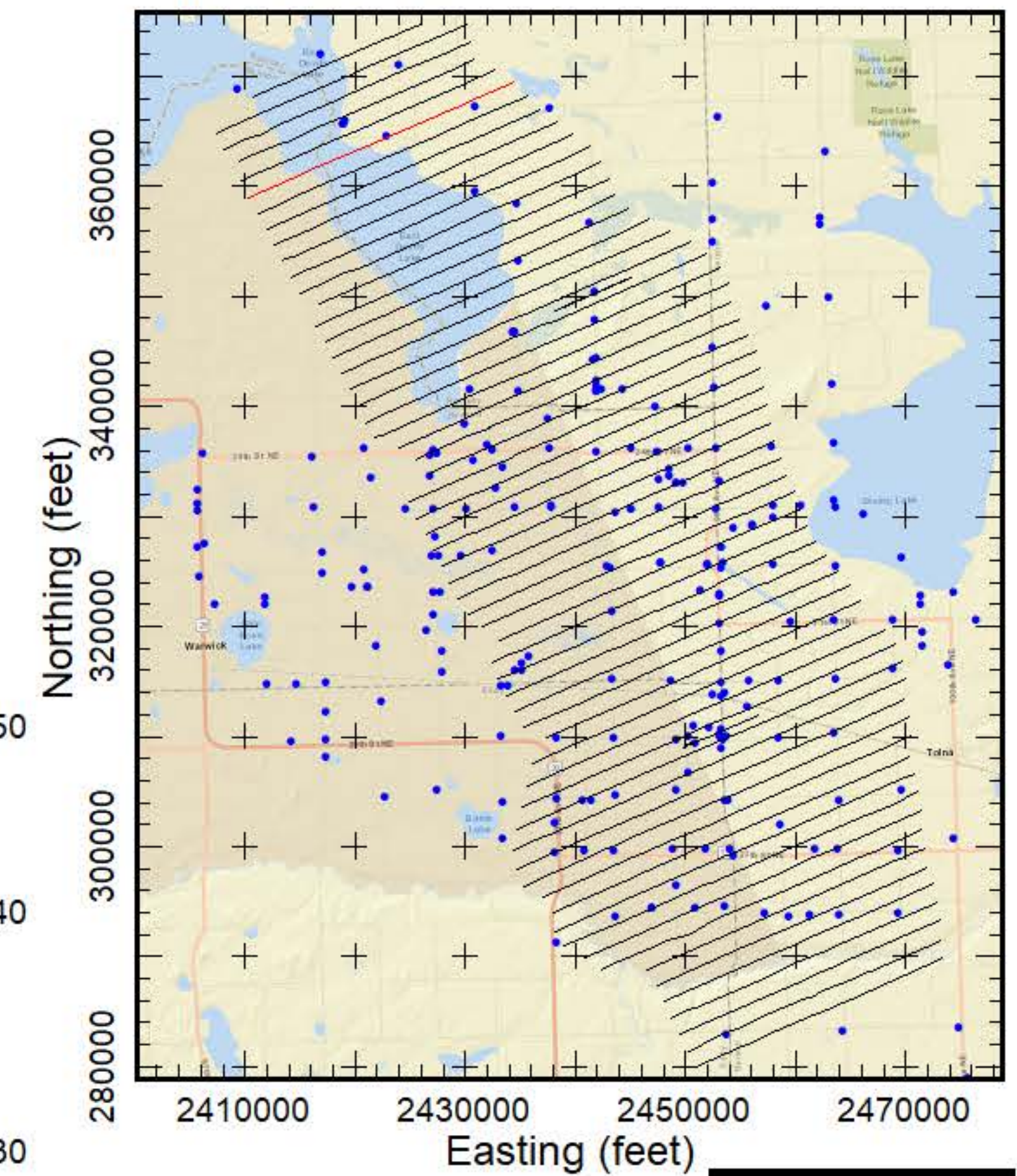


**AEM Inversion Line L10050**



**Flight Area Tolna**

**NORTH DAKOTA STATE WATER COMMISSION**  
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 BISMARCK, ND 58505-0850



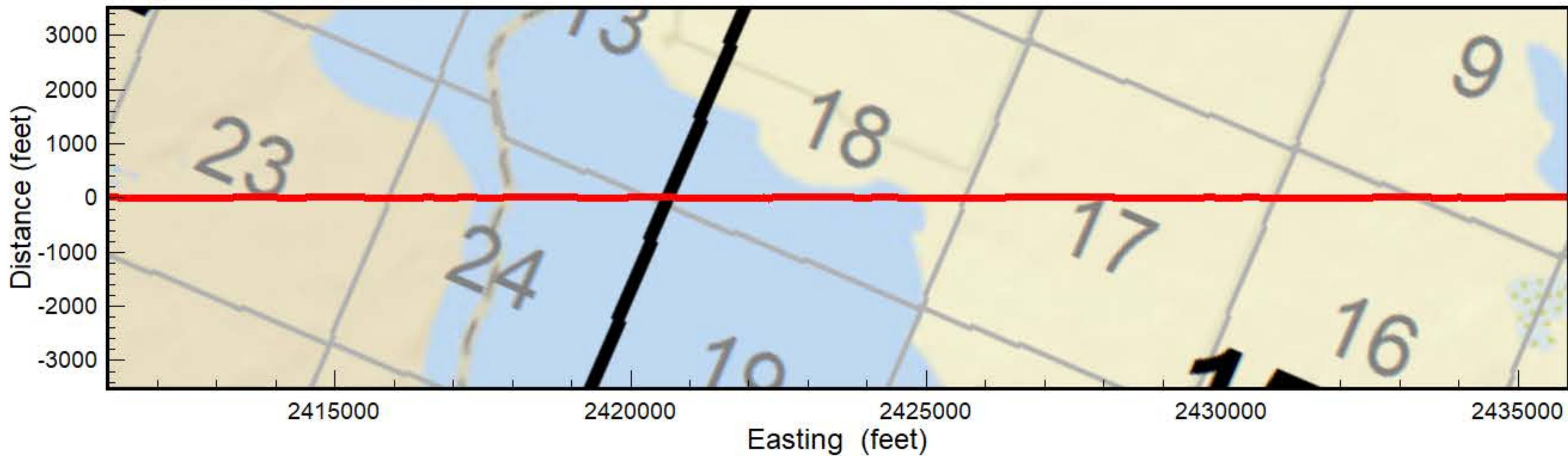
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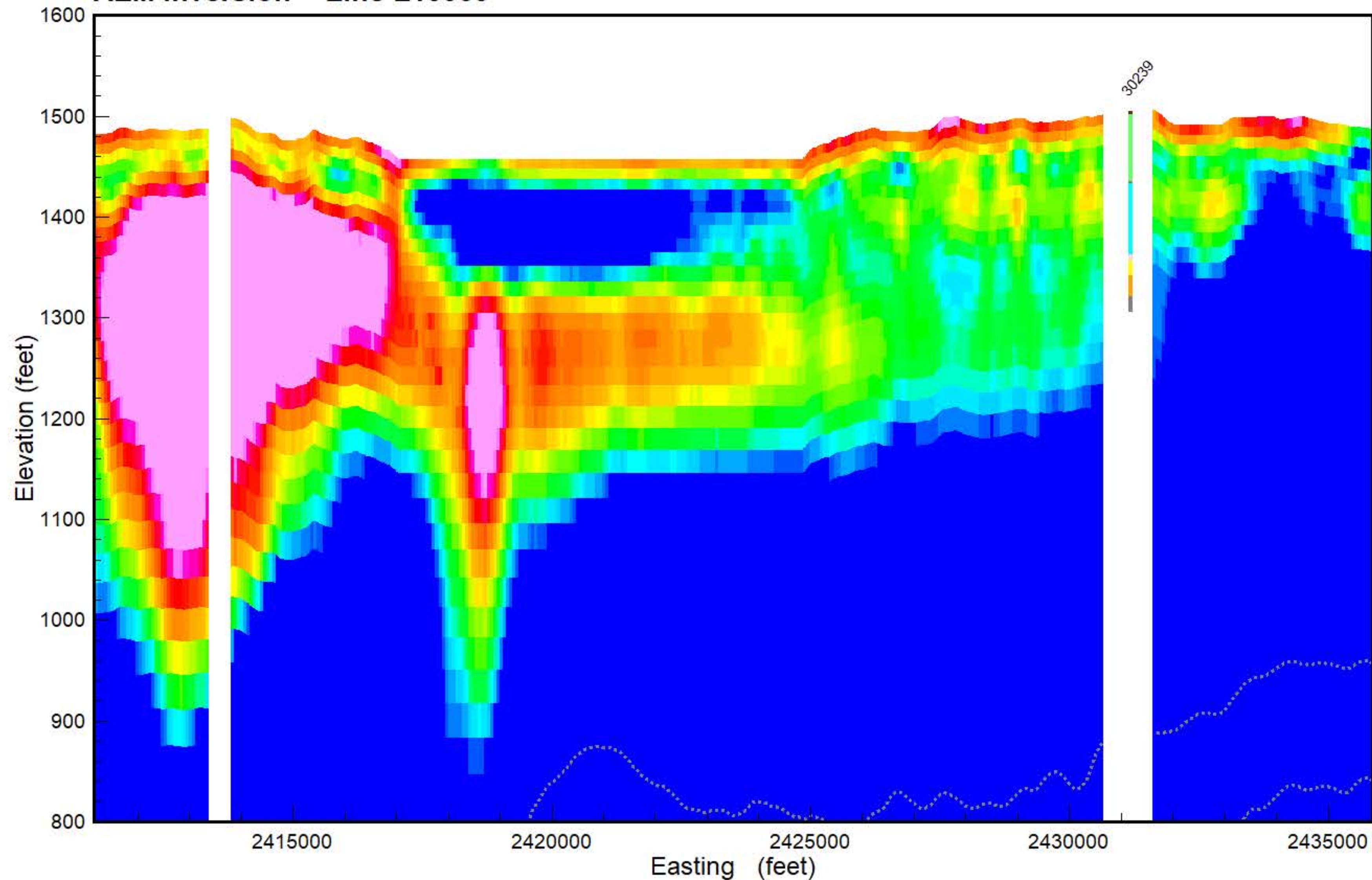




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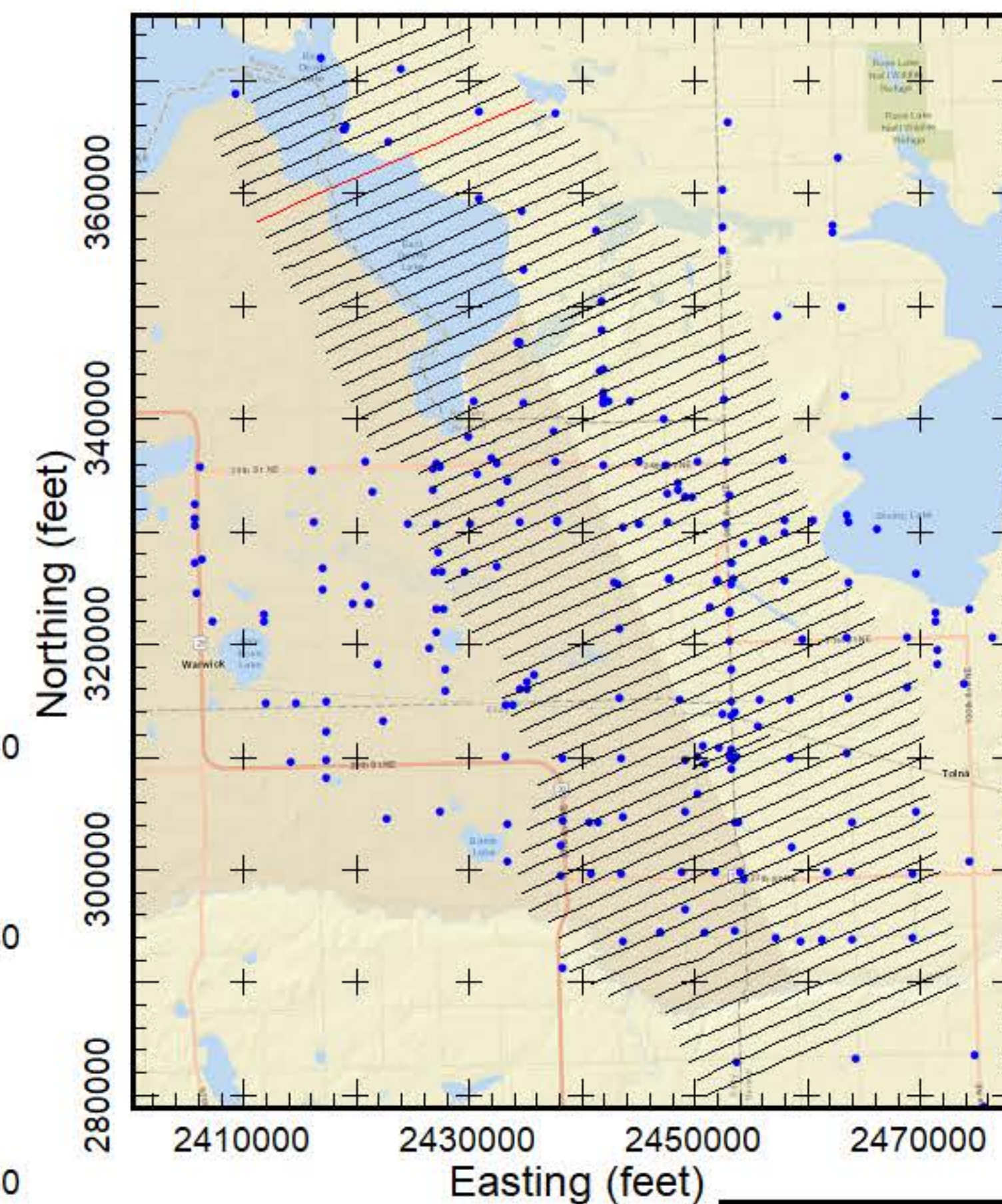


**AEM Inversion Line L10060**



**Flight Area Tolna**

**NORTH DAKOTA STATE WATER COMMISSION**  
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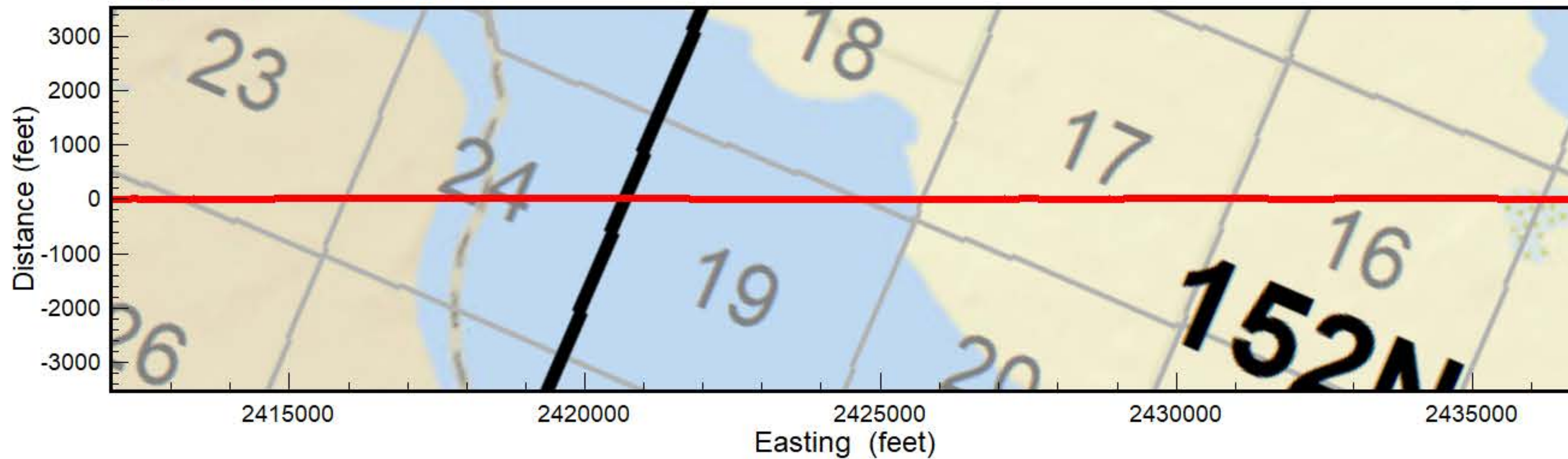
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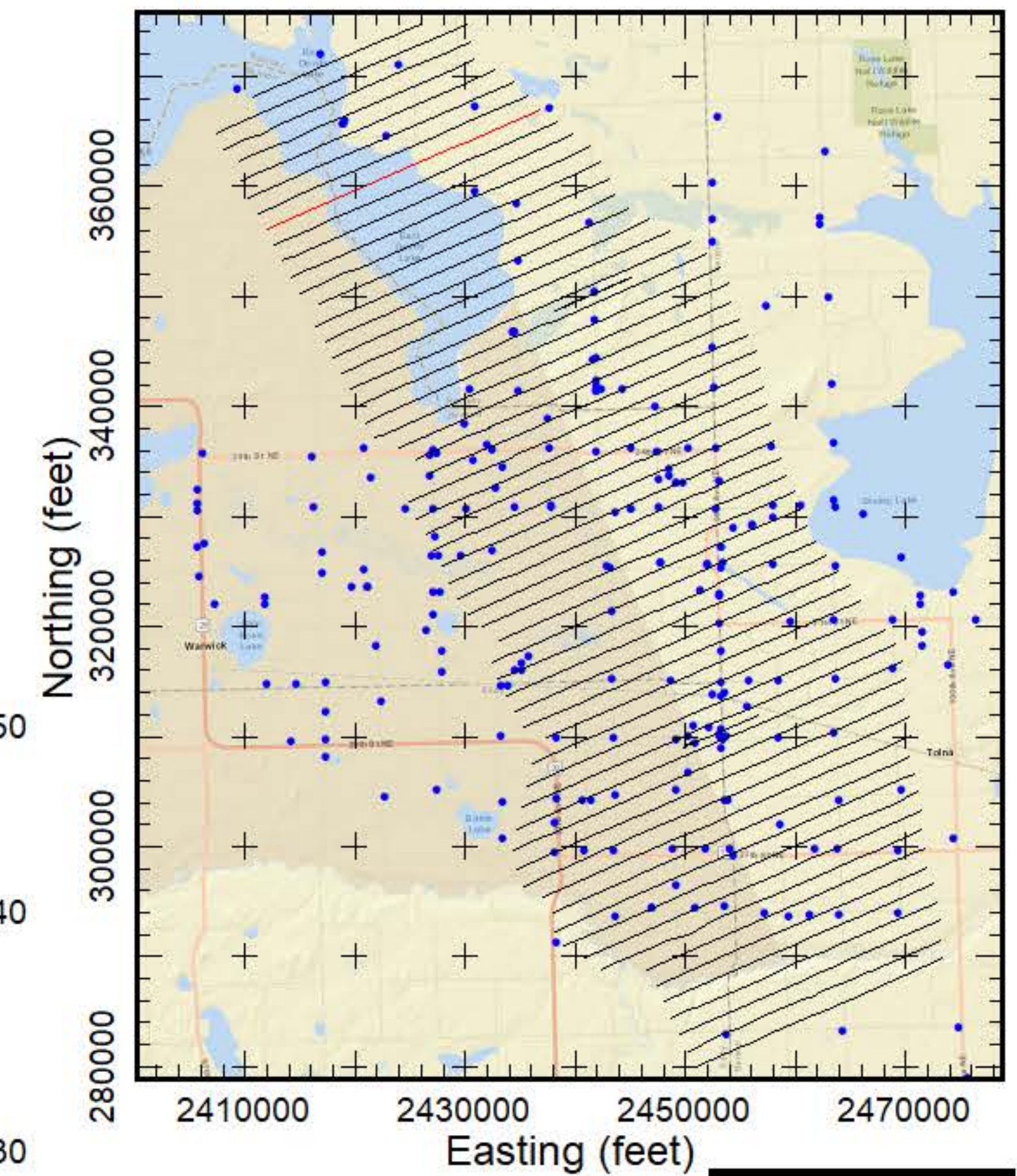




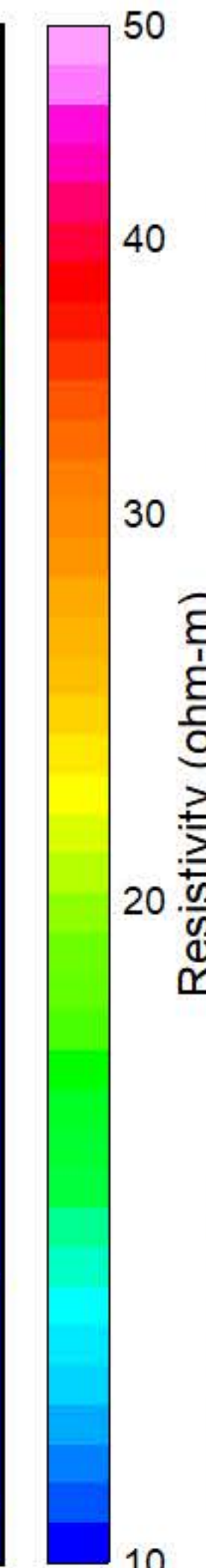
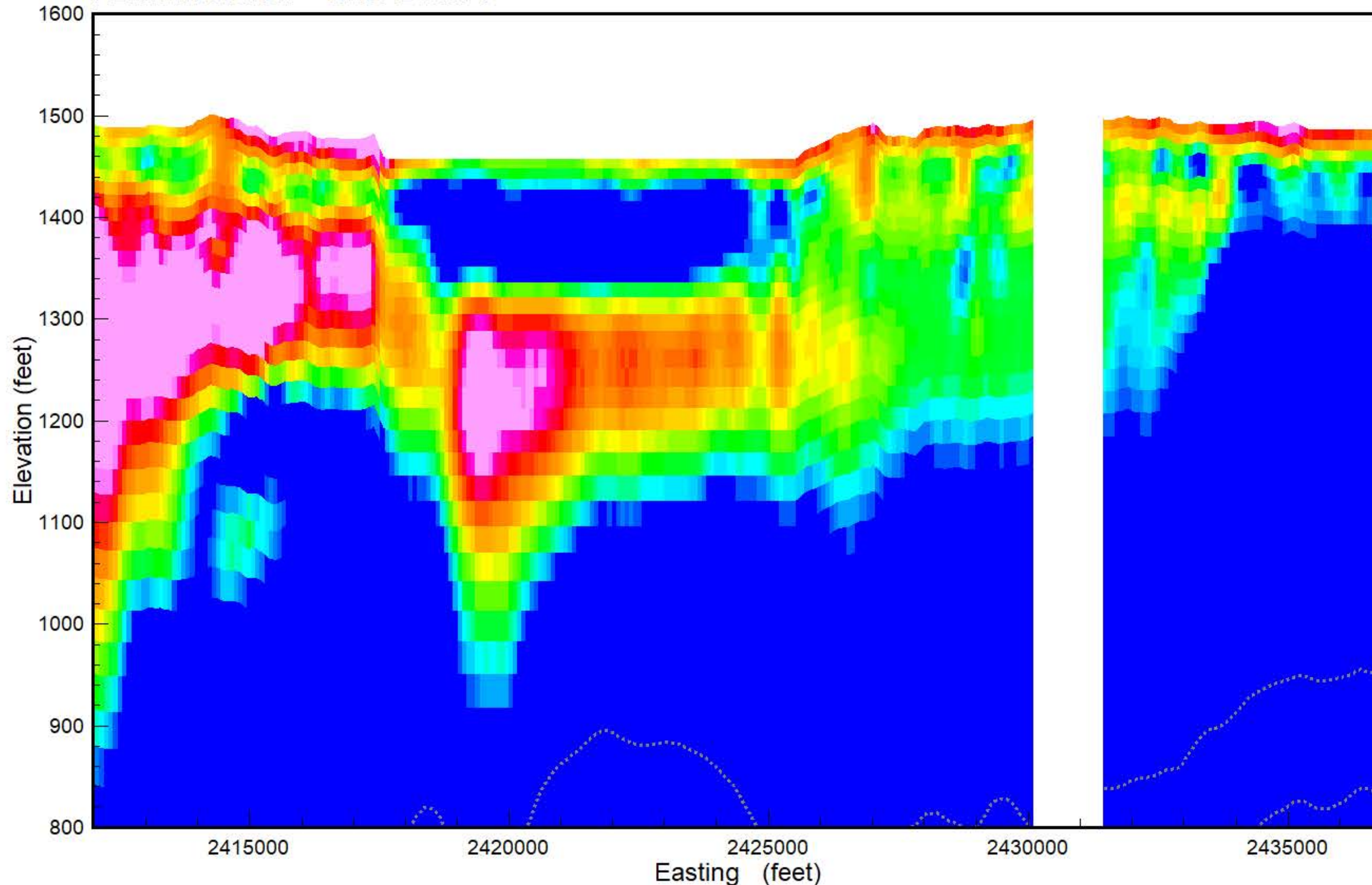
Flight Path Line L10070



Flight Area Tolna



AEM Inversion Line L10070



- PEAT
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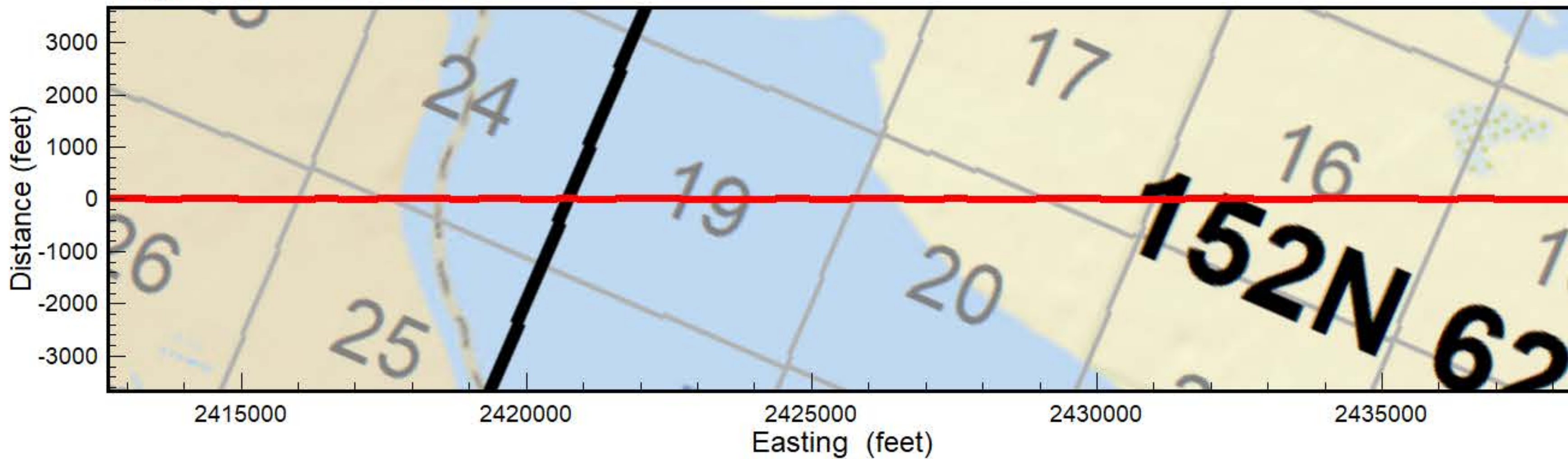


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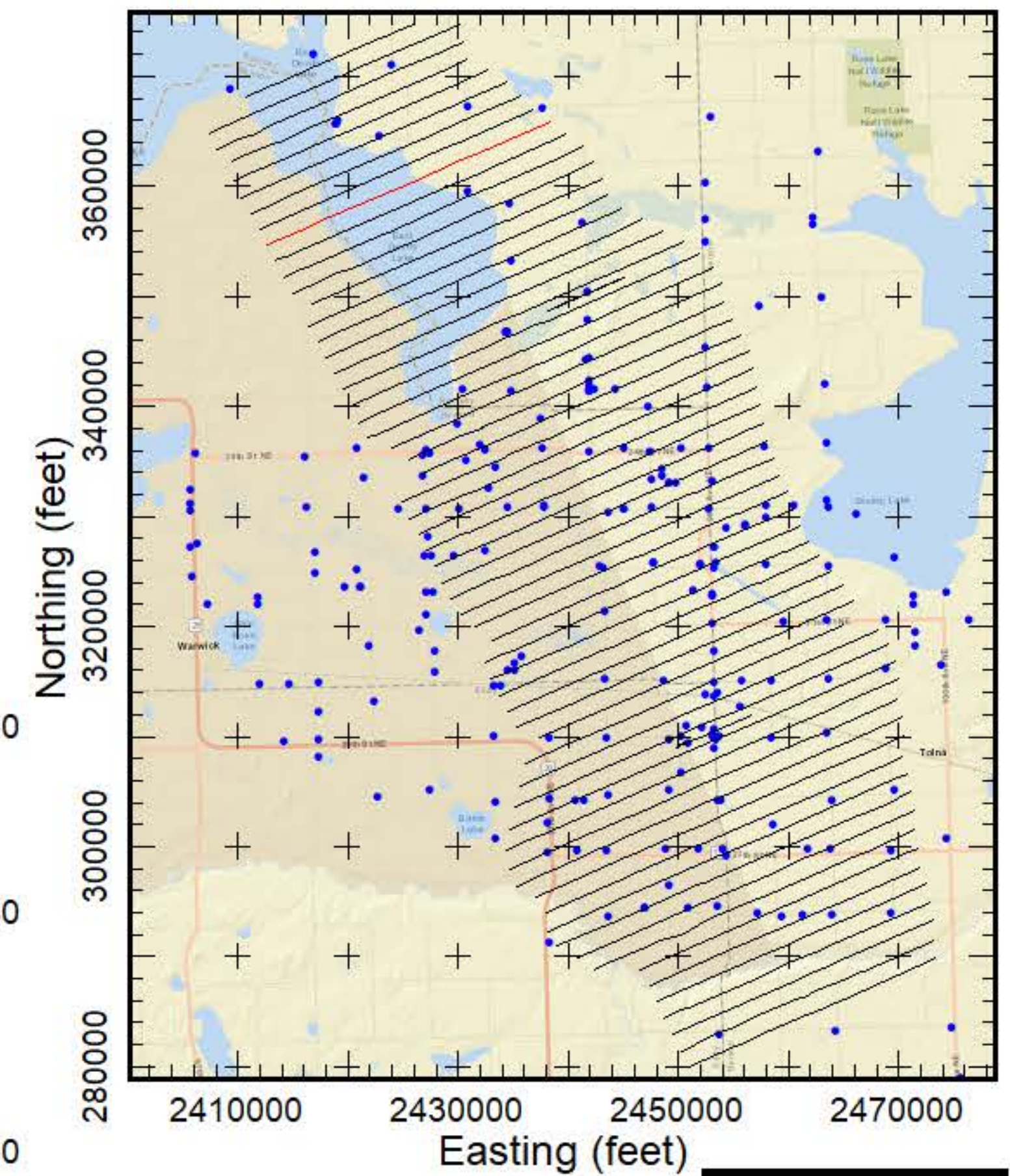




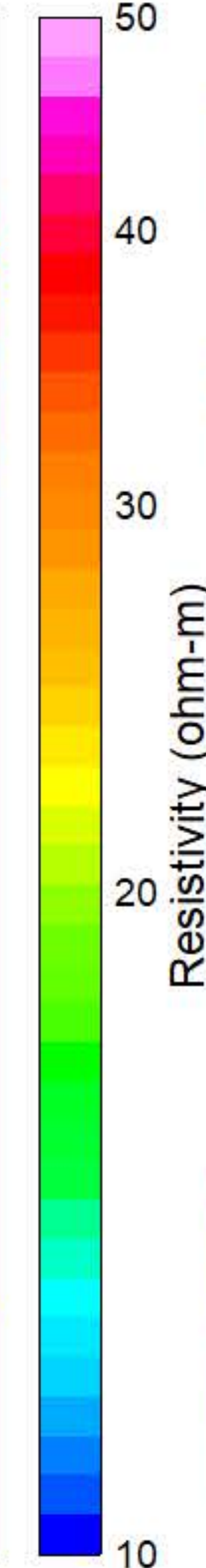
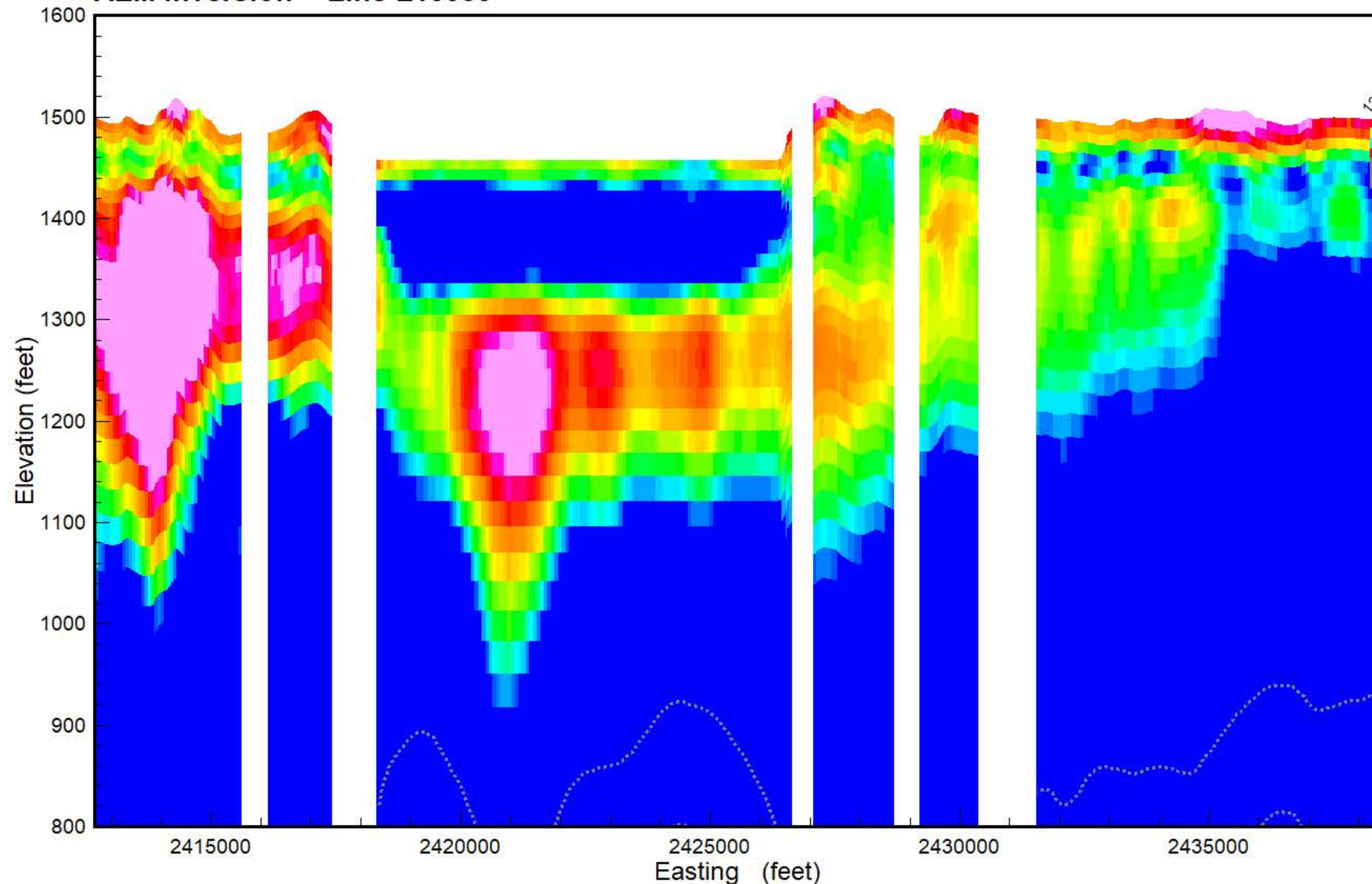
**Flight Path Line L10080**



**Flight Area Tolna**



**AEM Inversion Line L10080**



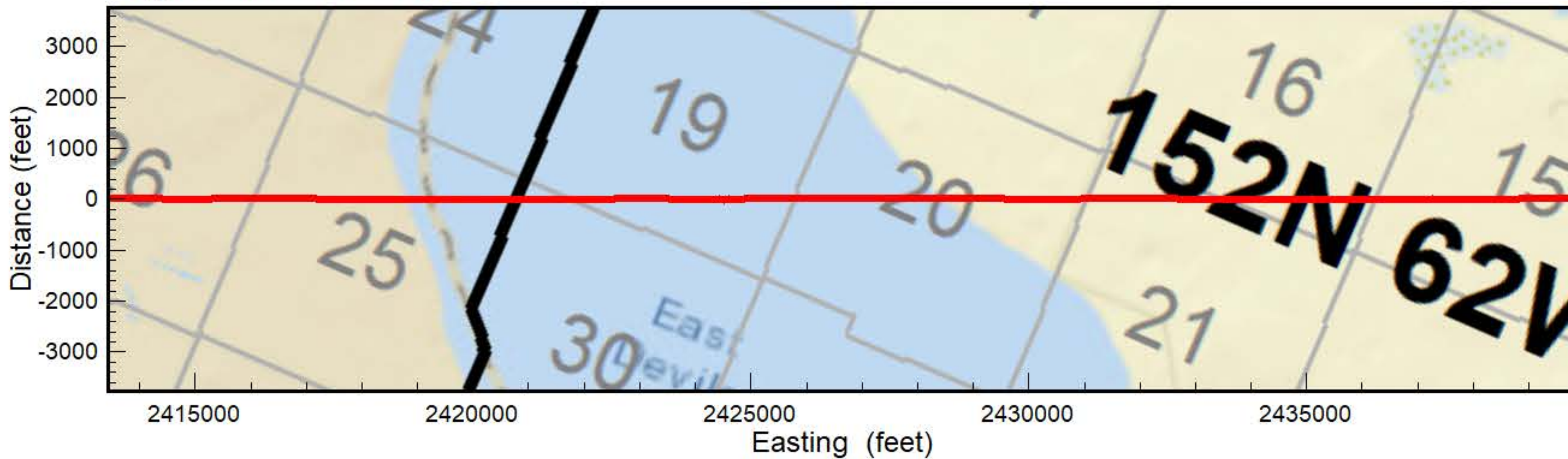
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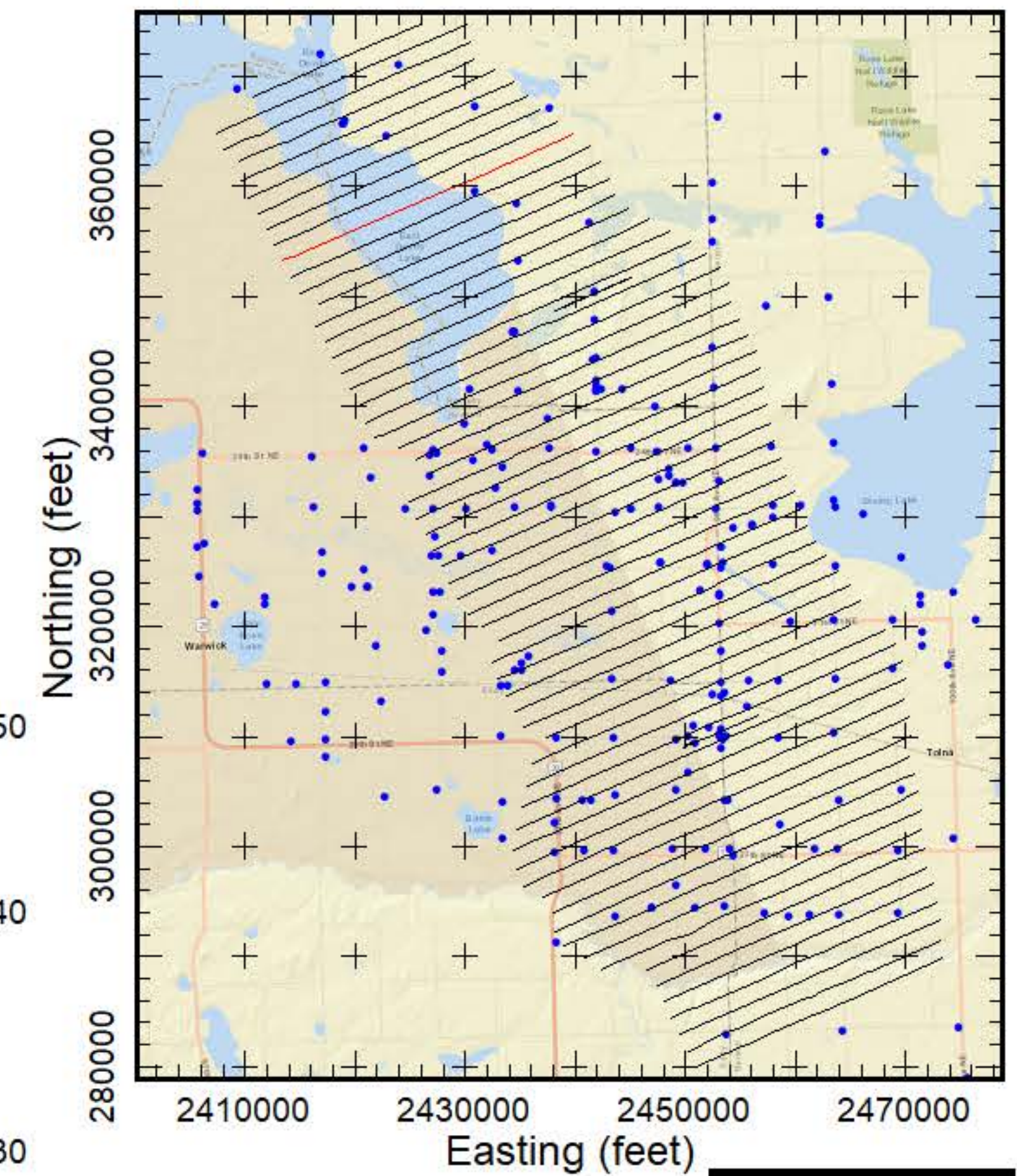


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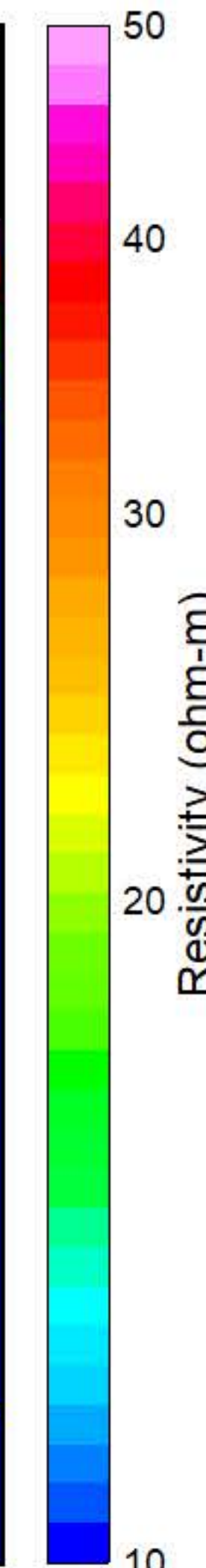
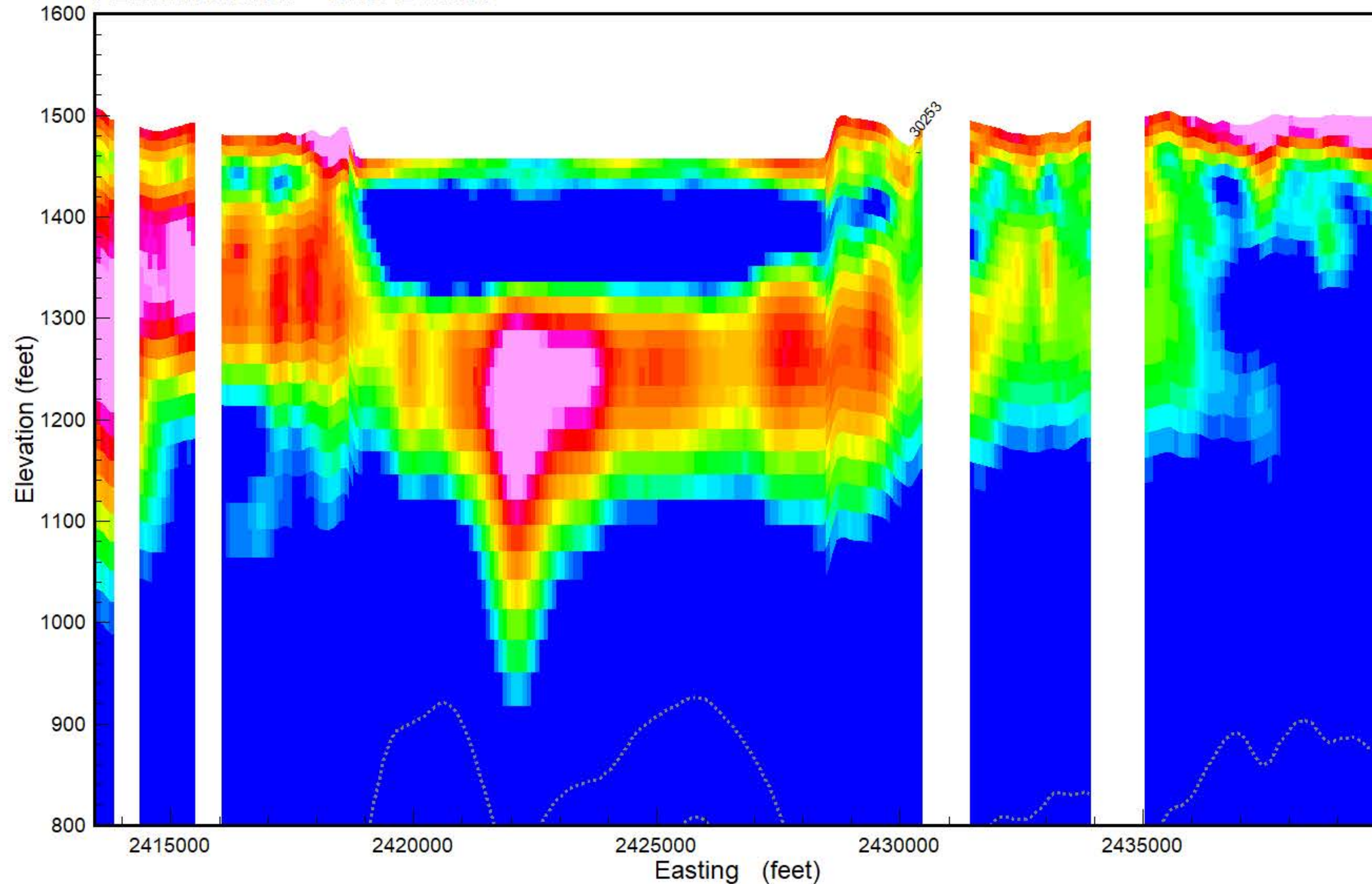


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**Flight Area Tolna**



**AEM Inversion Line L10090**



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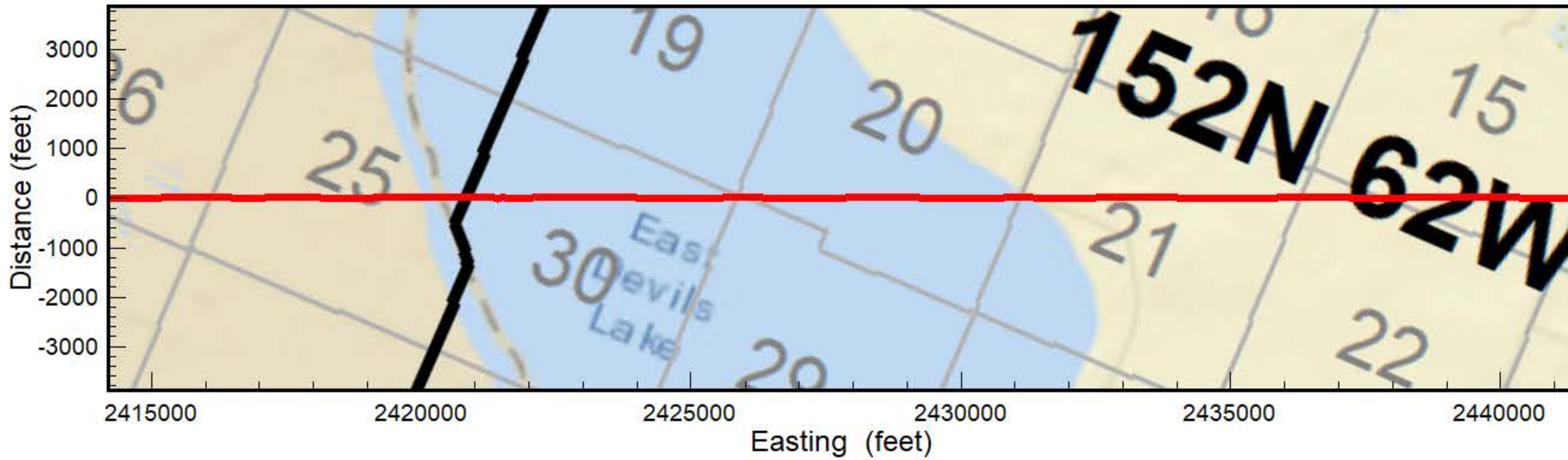


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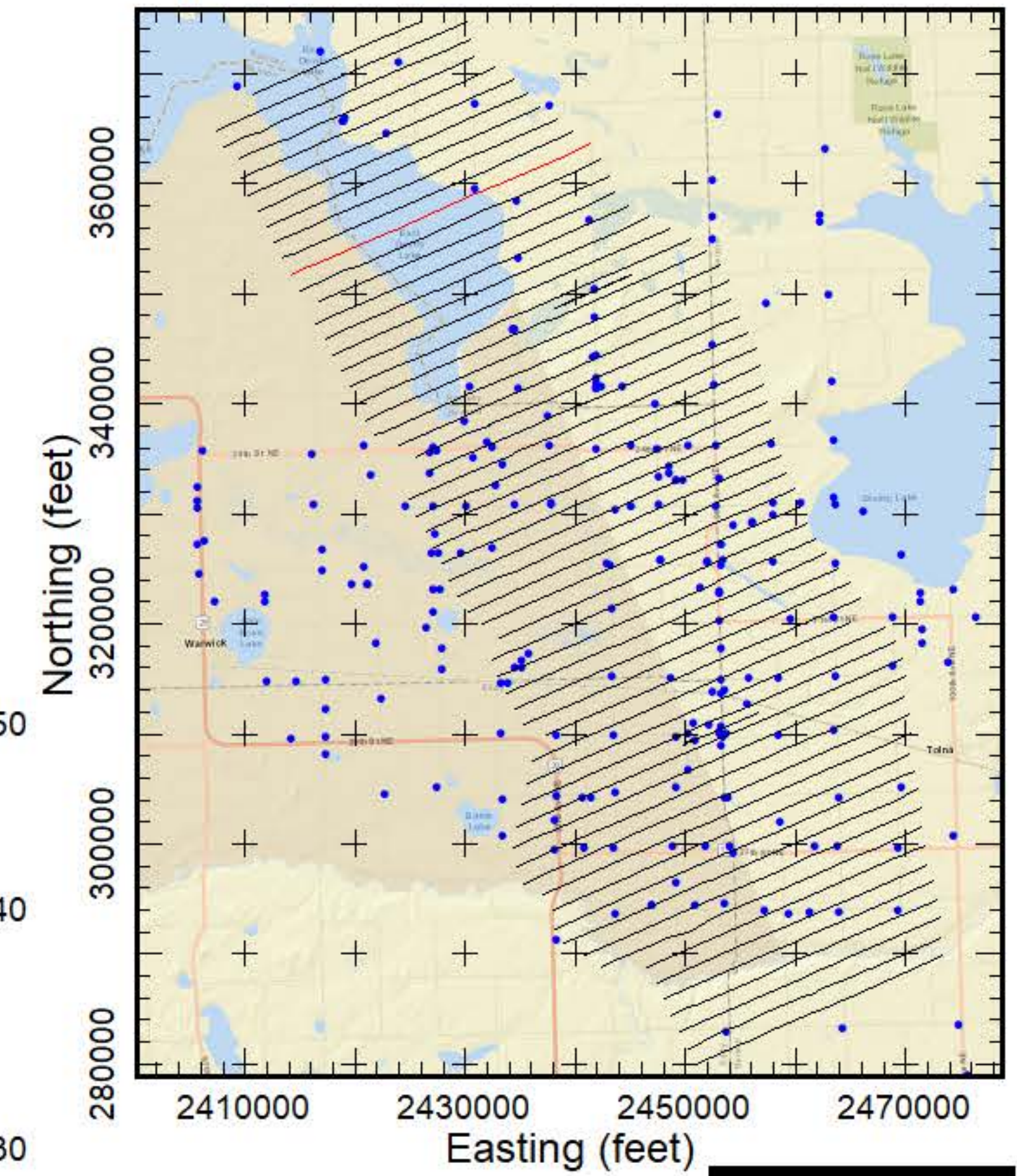




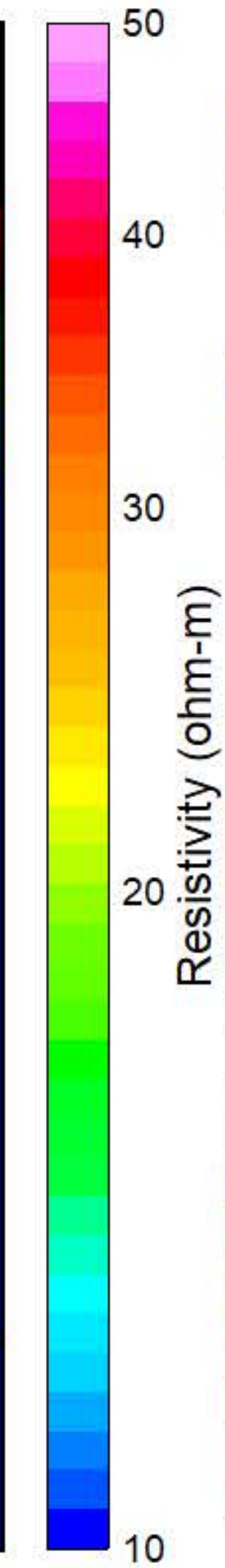
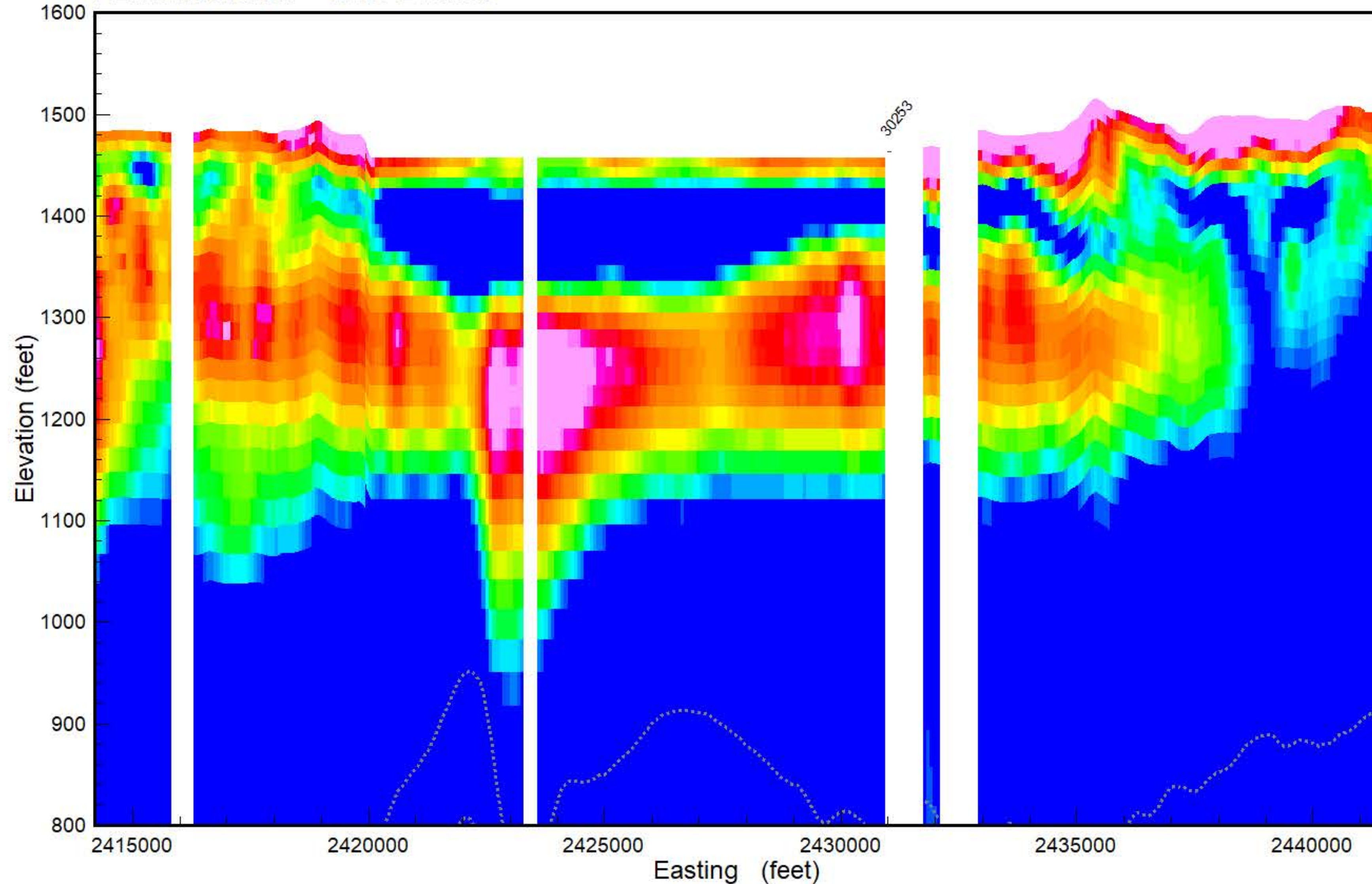
**Flight Path Line L10100**



**Flight Area Tolna**



**AEM Inversion Line L10100**



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- COBBLES
- BOULDER
- ROCK
- PRECAMBRIAN
- WEATHERED GRANITE
- SANDSTONE
- LIMESTONE
- SILTSTONE
- CLAYSTONE
- SHALE
- BEDROCK
- GRAVEL
- SAND & GRAVEL
- SAND
- INTERBEDDED
- SILT
- CLAY
- TILL
- FILL
- TOPSOIL
- NOSAMPLE

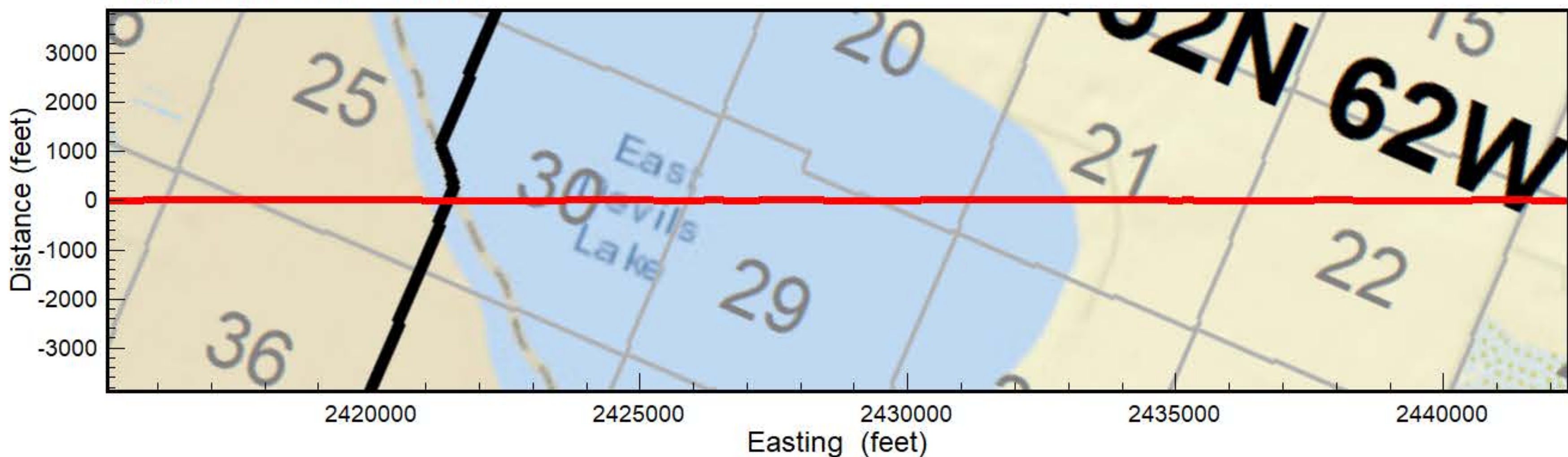


Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Tolna flight area from March 15-17, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 5.8.3. Boreholes are from the North Dakota State Water Commission Map service download October 2018 and are plotted within 1/4 mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua AGF Frameworks, LLC.



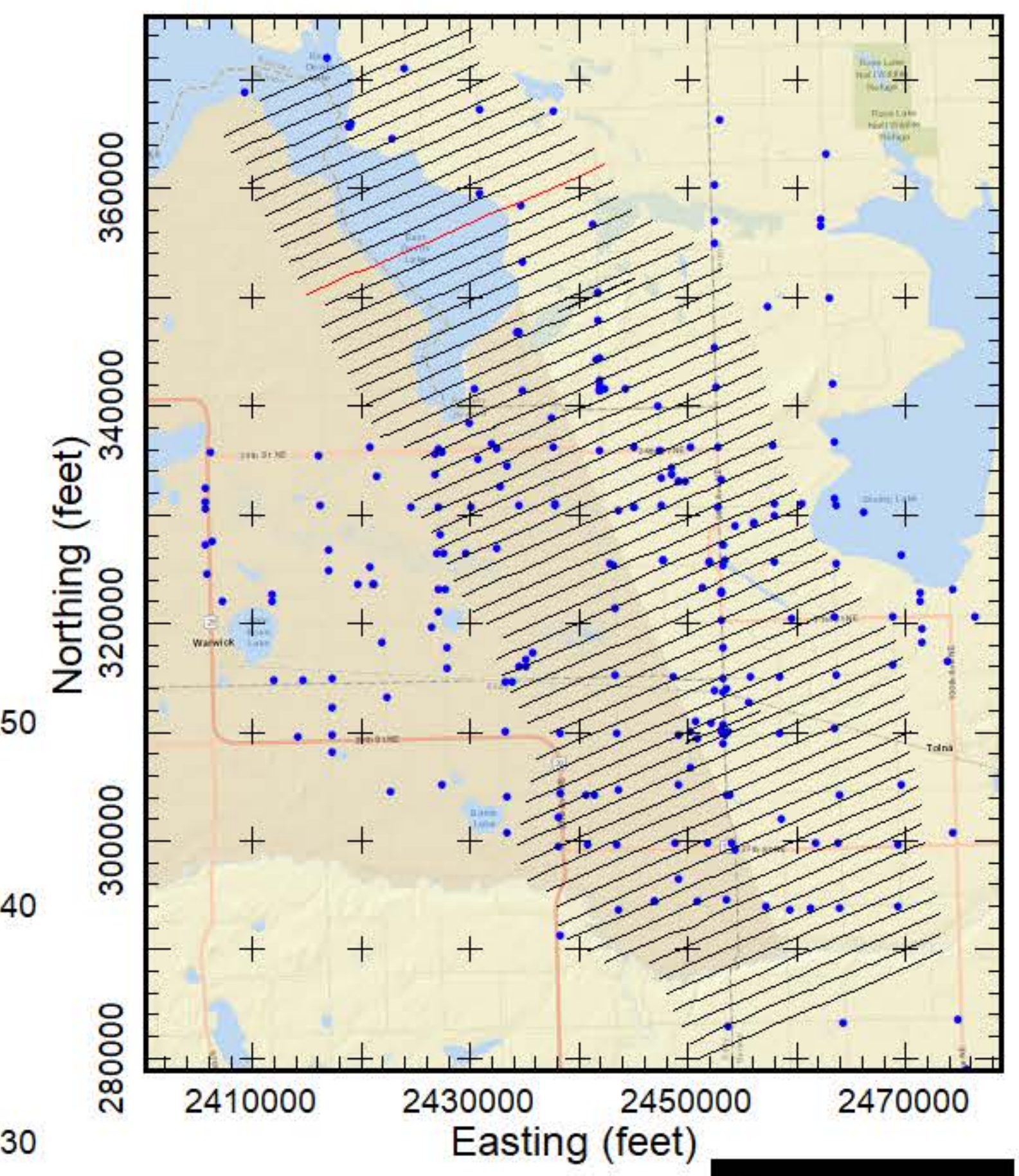


**Flight Path Line L10110**

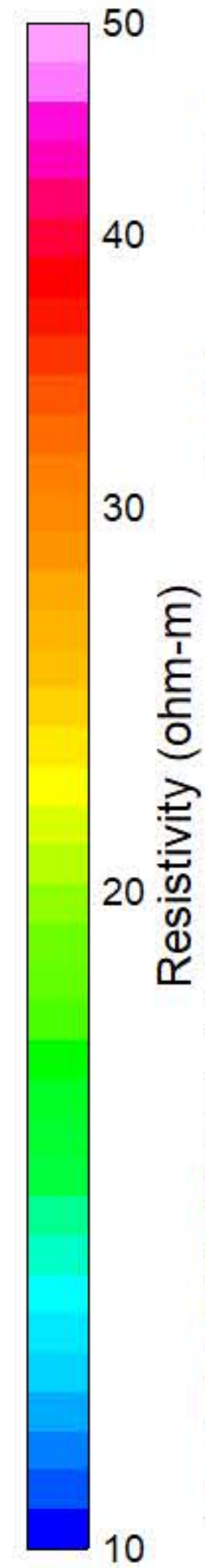
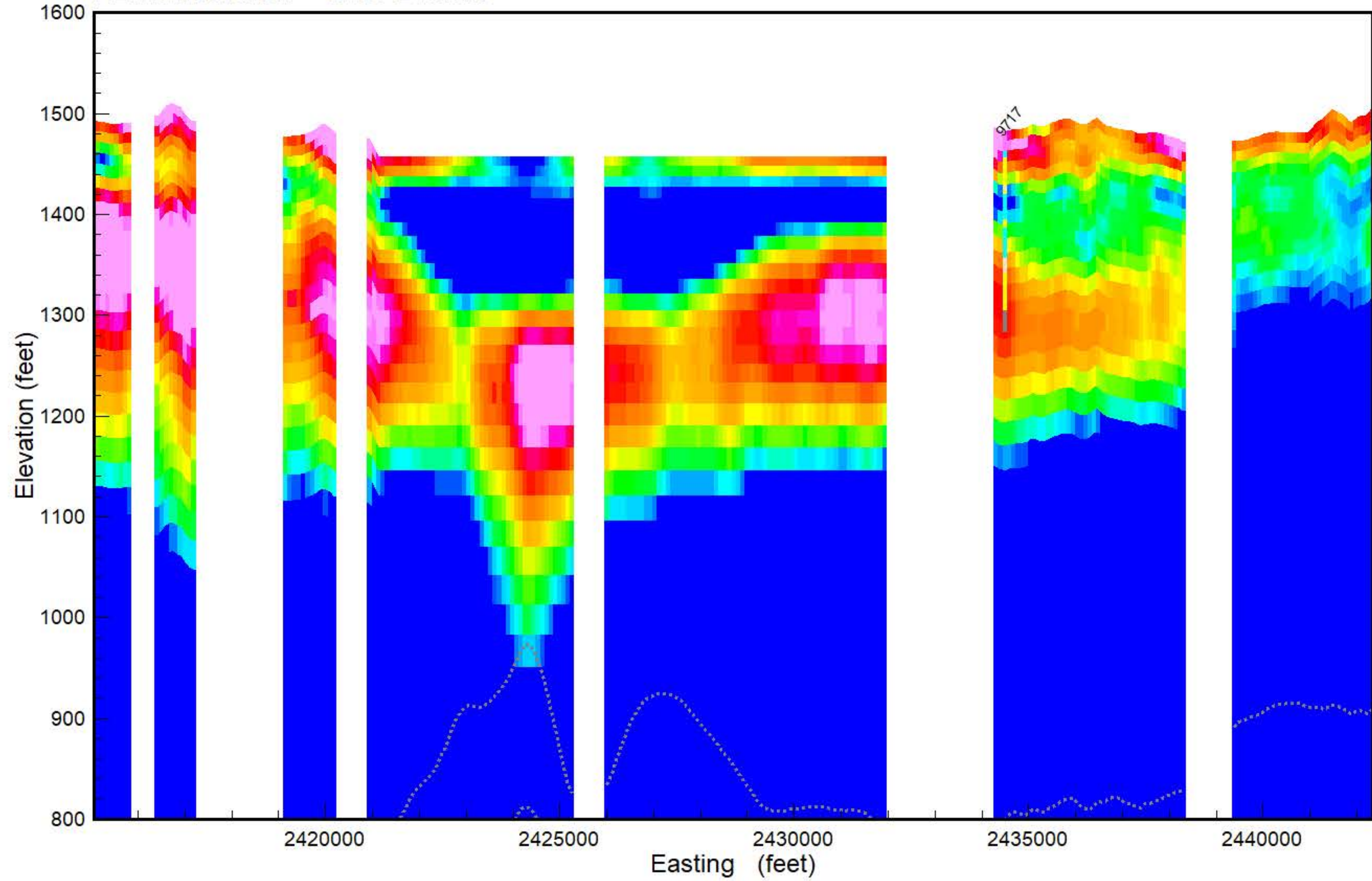


**NORTH DAKOTA STATE WATER COMMISSION**  
 900 EAST BOULEVARD AVE, DEPT. 770  
 BISMARCK, ND 58505-0850

**Flight Area Tolna**



**AEM Inversion Line L10110**



- PEAT
- LIGNITE
- COBBLES
- BOULDER
- ROCK
- PRECAMBRIAN
- WEATHERED GRANITE
- SANDSTONE
- LIMESTONE
- SILTSTONE
- CLAYSTONE
- SHALE
- BEDROCK
- GRAVEL
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- FILL
- TOPSOIL
- NOSAMPLE

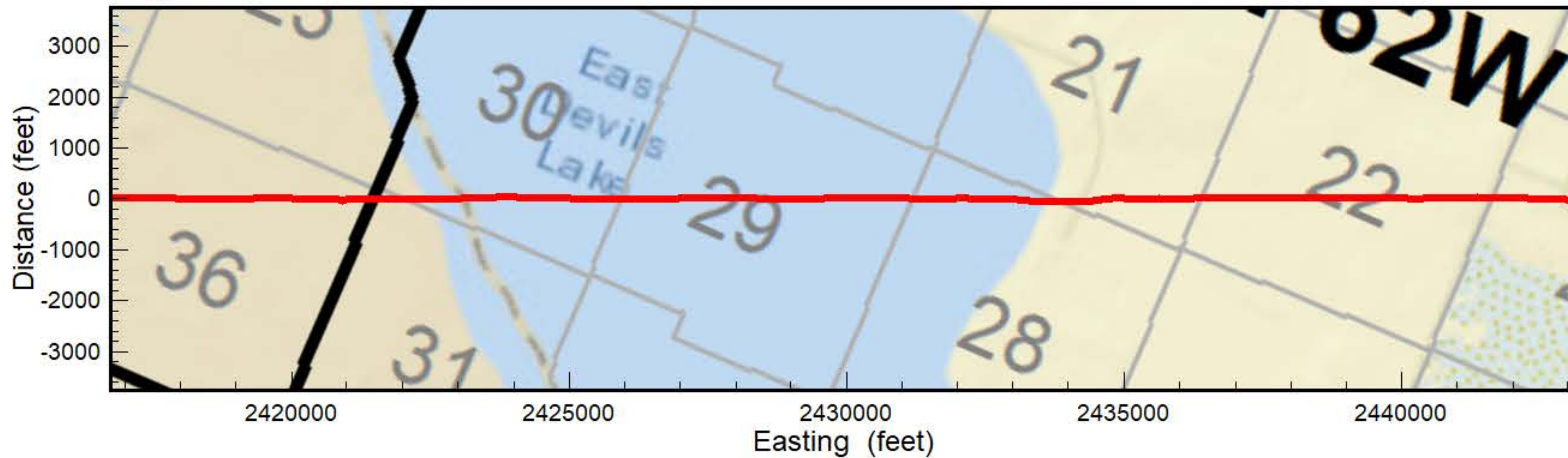


Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Tolna flight area from March 15-17, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 5.8.3. Boreholes are from the North Dakota State Water Commission Map service download October 2018 and are plotted within 1/4 mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

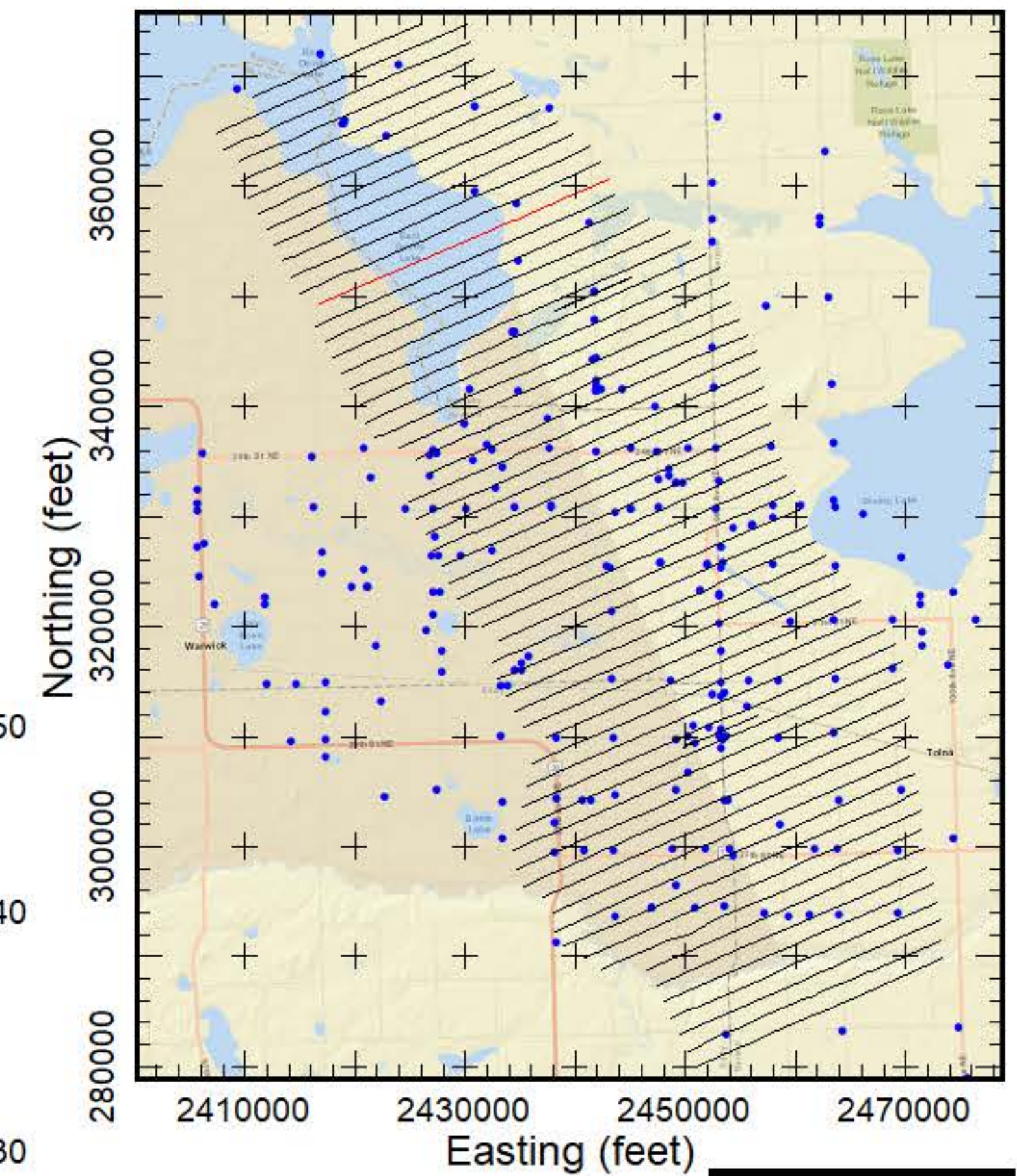




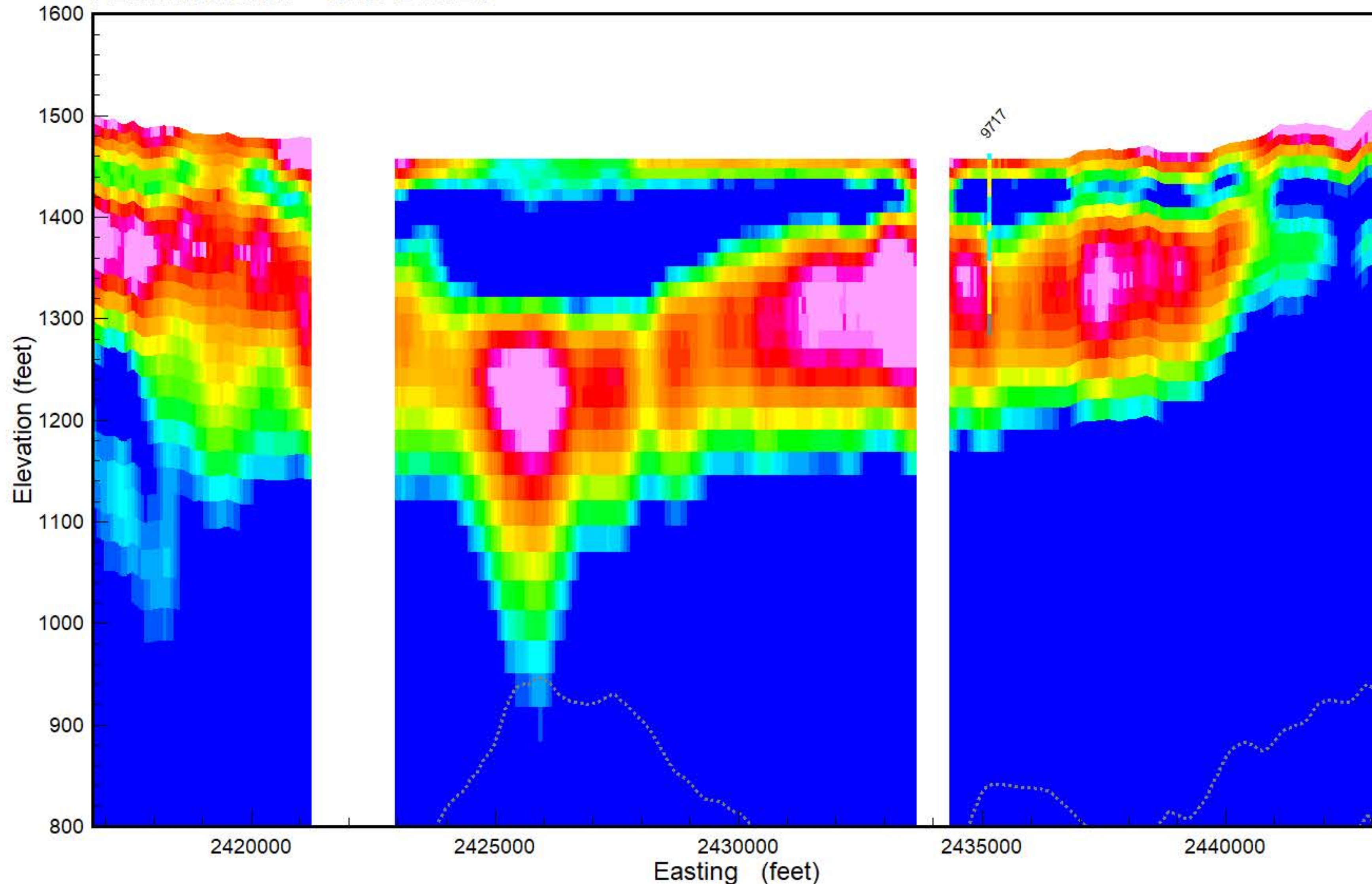
**Flight Path Line L10120**



**Flight Area Tolna**



**AEM Inversion Line L10120**



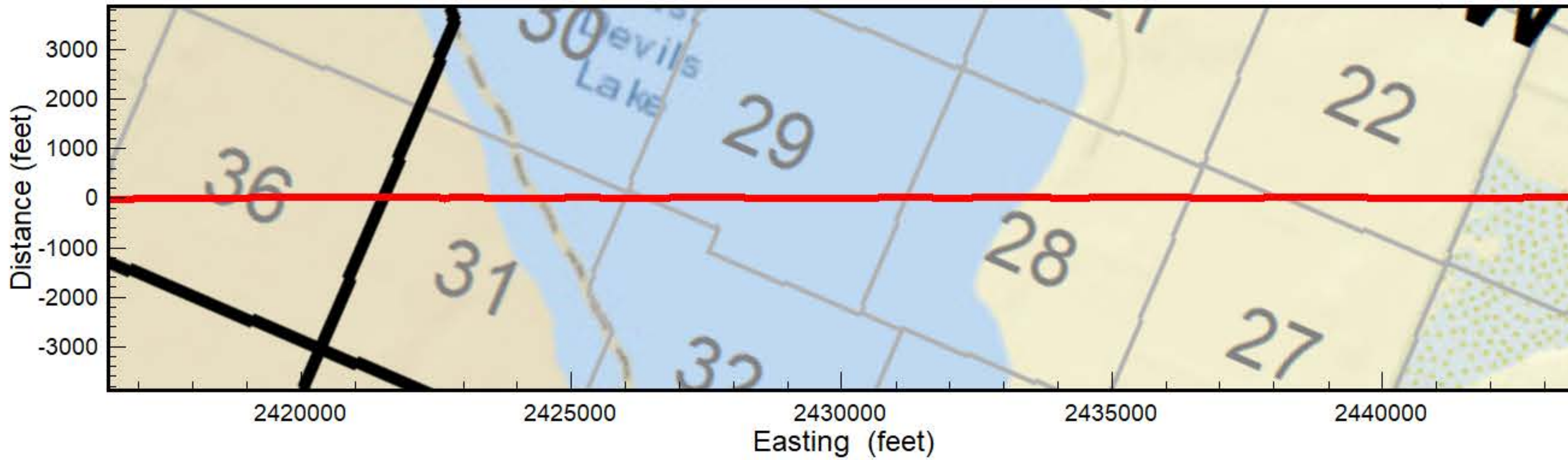
**GEOTECH**

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Tolna flight area from March 15-17, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 5.8.3. Boreholes are from the North Dakota State Water Commission Map service download October 2018 and are plotted within 1/4 mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

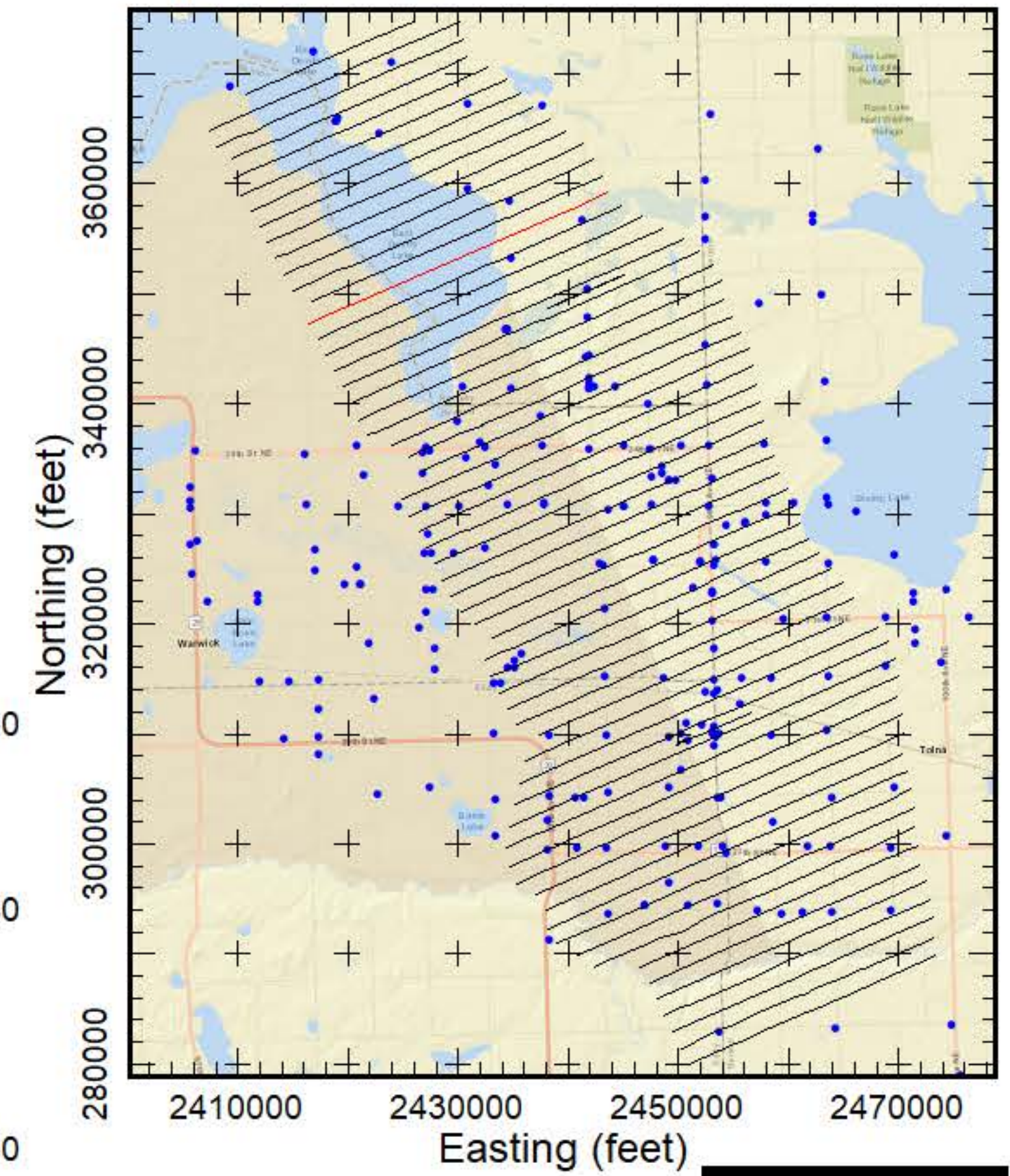
- PEAT
- LIGNITE
- COBBLES
- BOULDER
- ROCK
- PRECAMBRIAN
- WEATHERED GRANITE
- SANDSTONE
- LIMESTONE
- SILTSTONE
- CLAYSTONE
- SHALE
- BEDROCK
- GRAVEL
- SAND & GRAVEL
- SAND
- INTERBEDDED
- SILT
- CLAY
- TILL
- FILL
- TOPSOIL
- NOSAMPLE



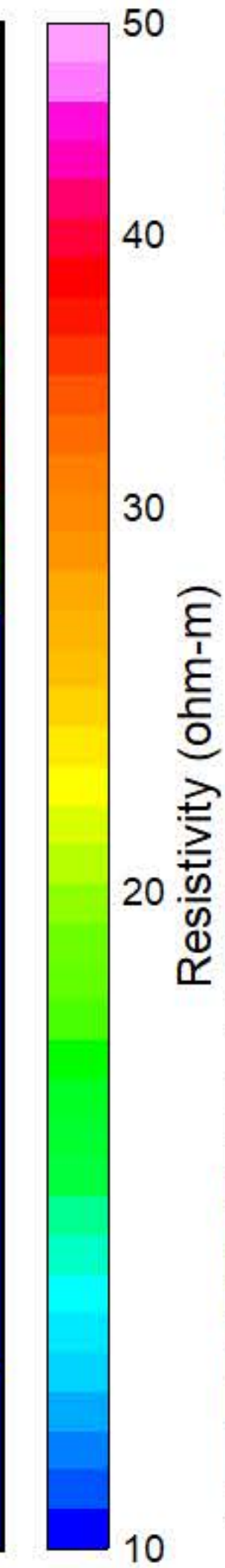
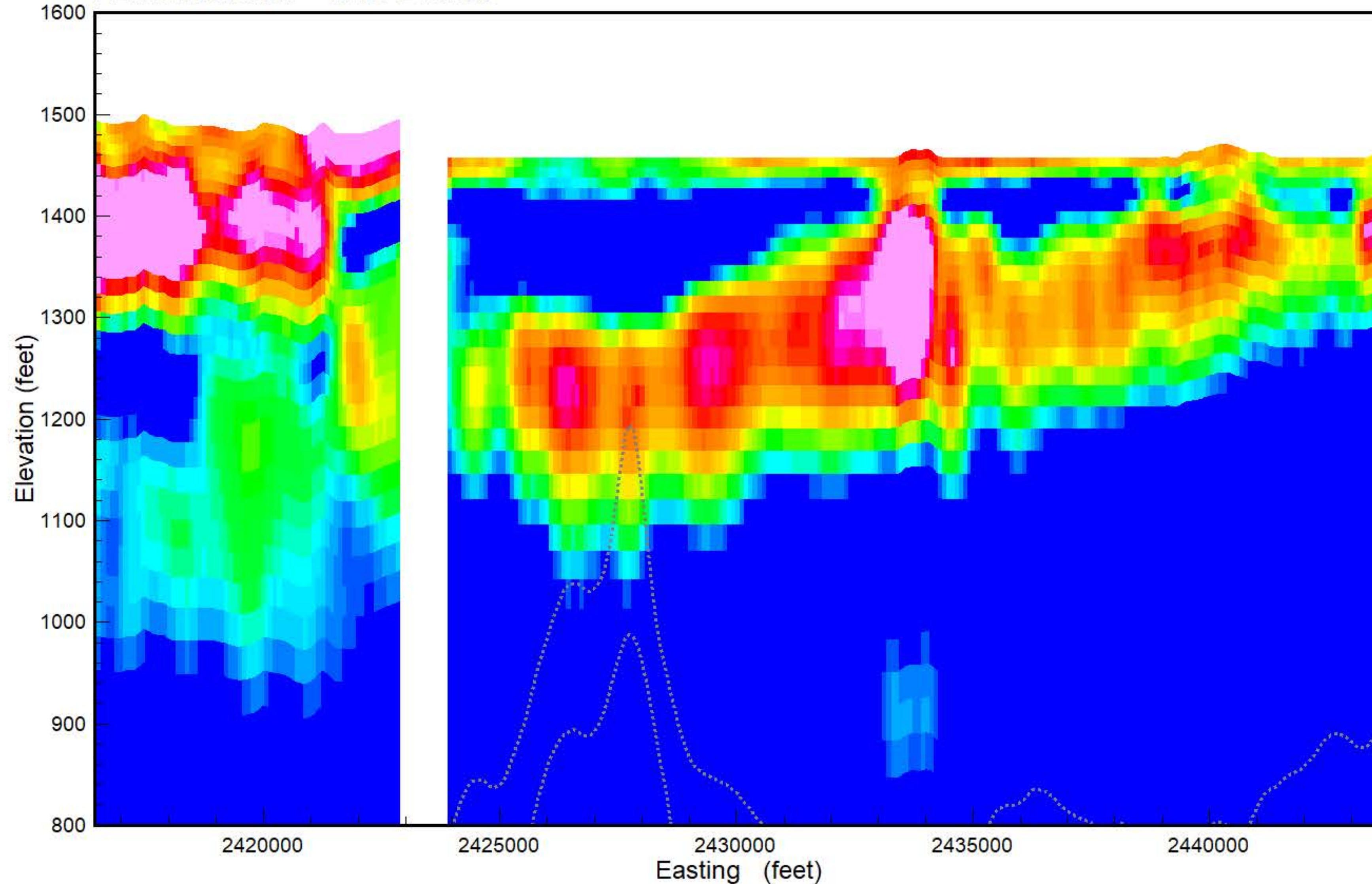
**Flight Path Line L10130**



**Flight Area Tolna**



**AEM Inversion Line L10130**



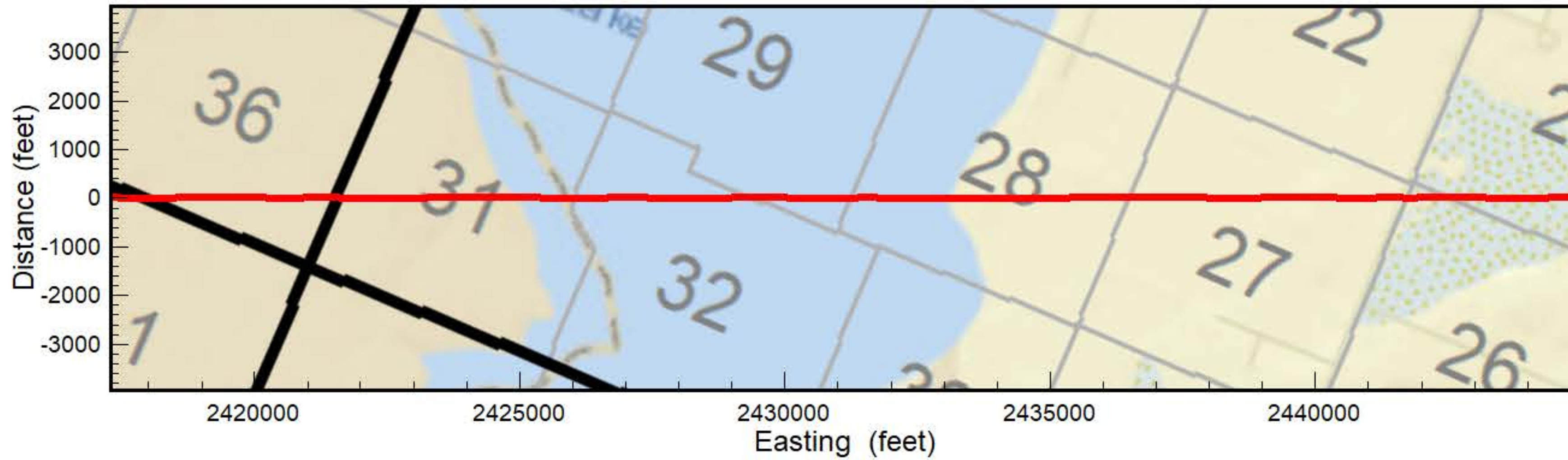
- PEAT
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- COBBLES
- BOULDER
- ROCK
- PRECAMBRIAN
- WEATHERED GRANITE
- SANDSTONE
- LIMESTONE
- SILTSTONE
- CLAYSTONE
- SHALE
- BEDROCK
- GRAVEL
- SAND & GRAVEL
- SAND
- INTERBEDDED
- SILT
- CLAY
- TILL
- FILL
- TOPSOIL
- NOSAMPLE

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Tolna flight area from March 15-17, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 5.8.3. Boreholes are from the North Dakota State Water Commission Map service download October 2018 and are plotted within 1/4 mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

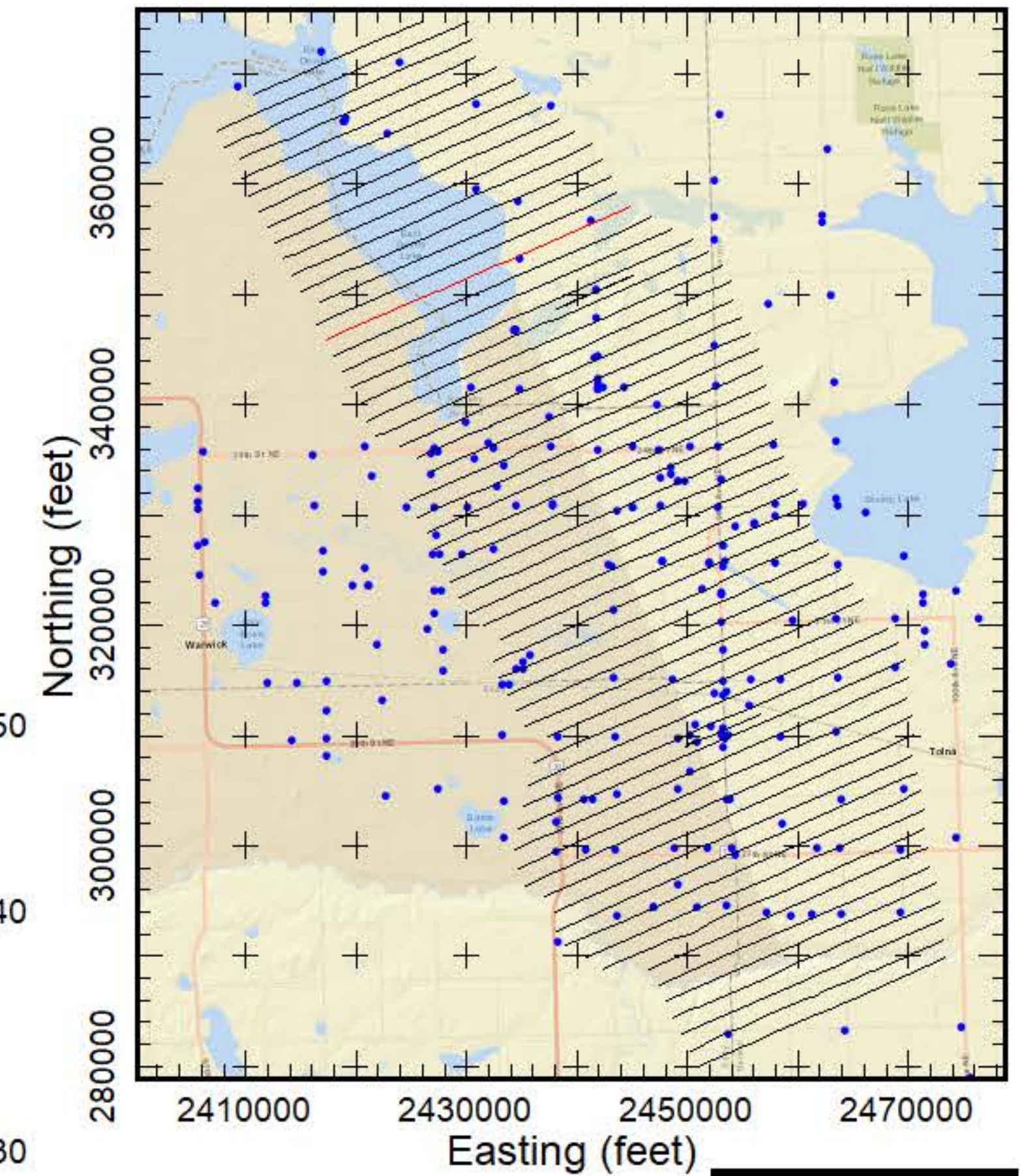




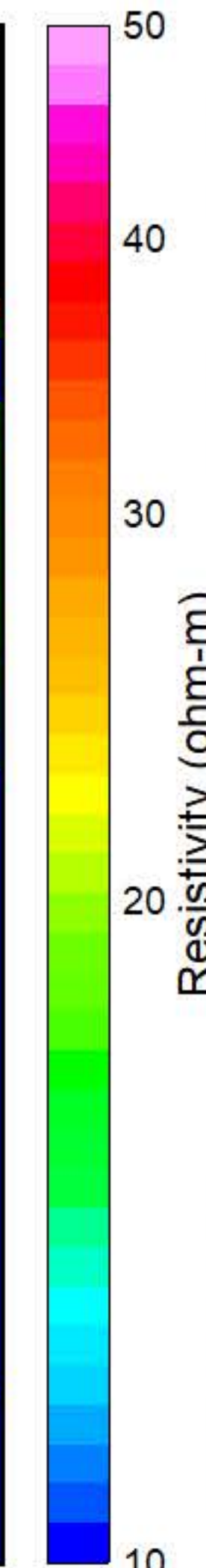
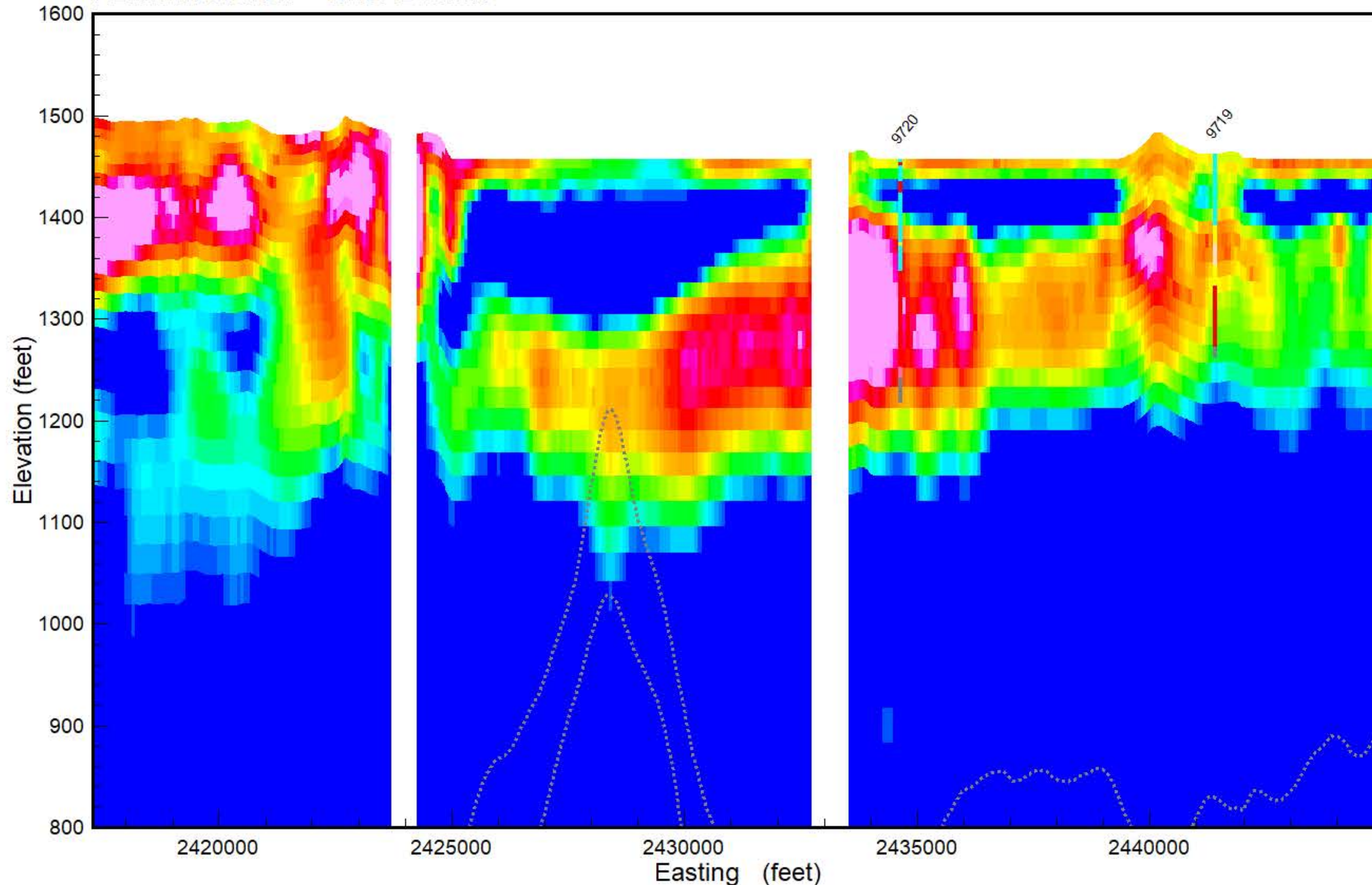
**Flight Path Line L10140**



**Flight Area Tolna**



**AEM Inversion Line L10140**

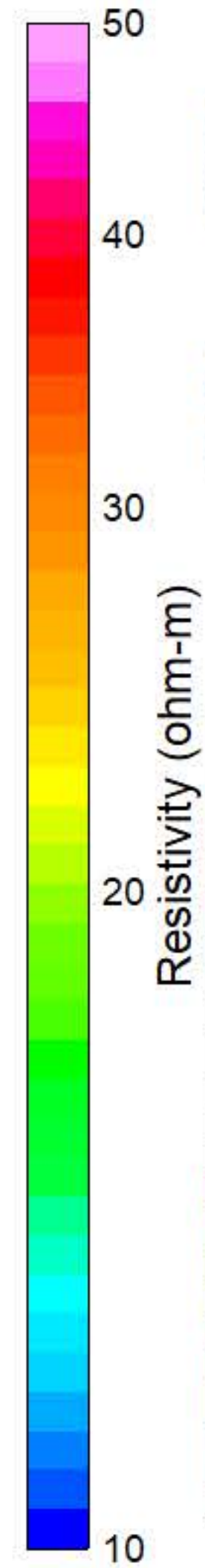
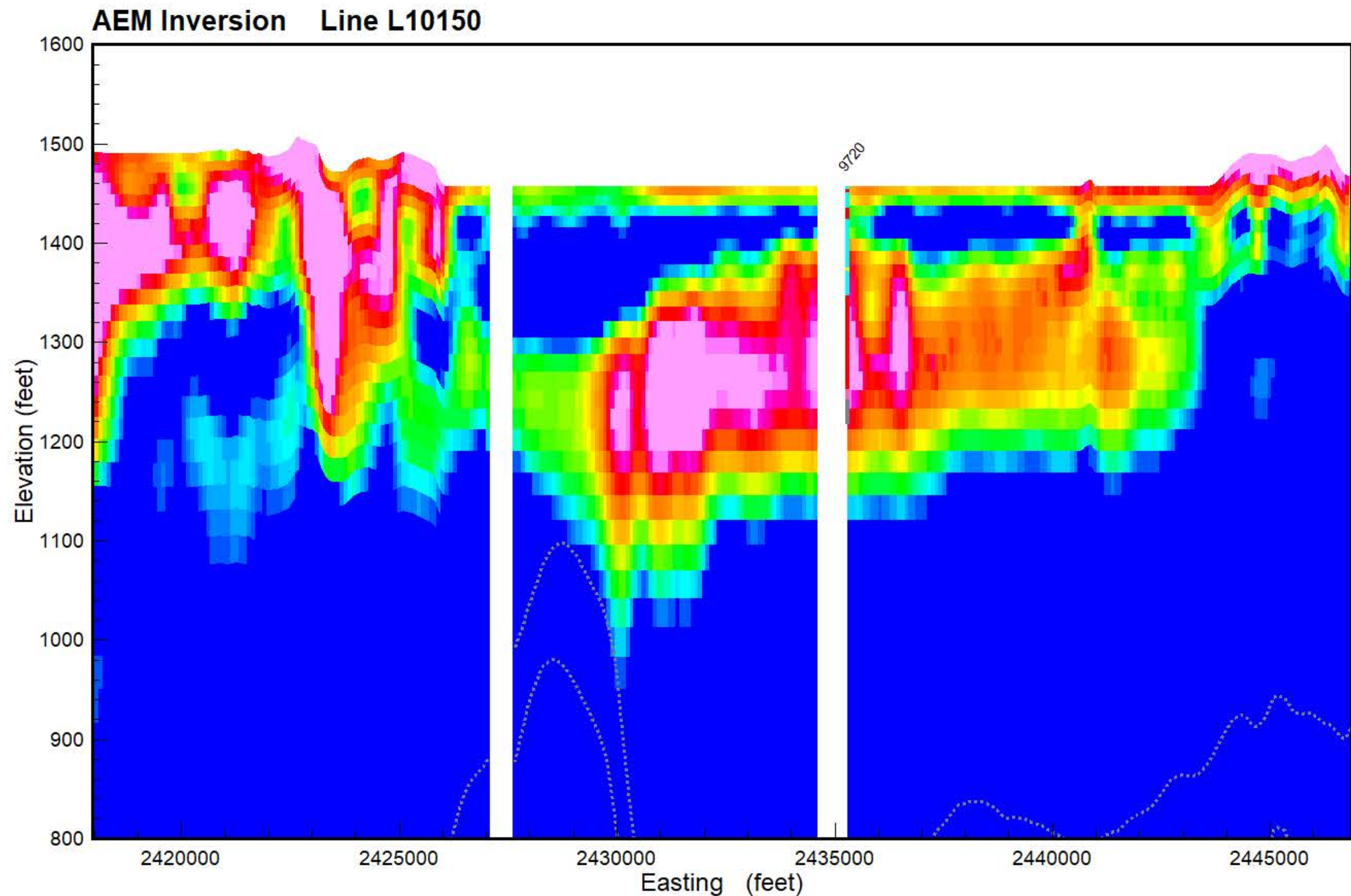
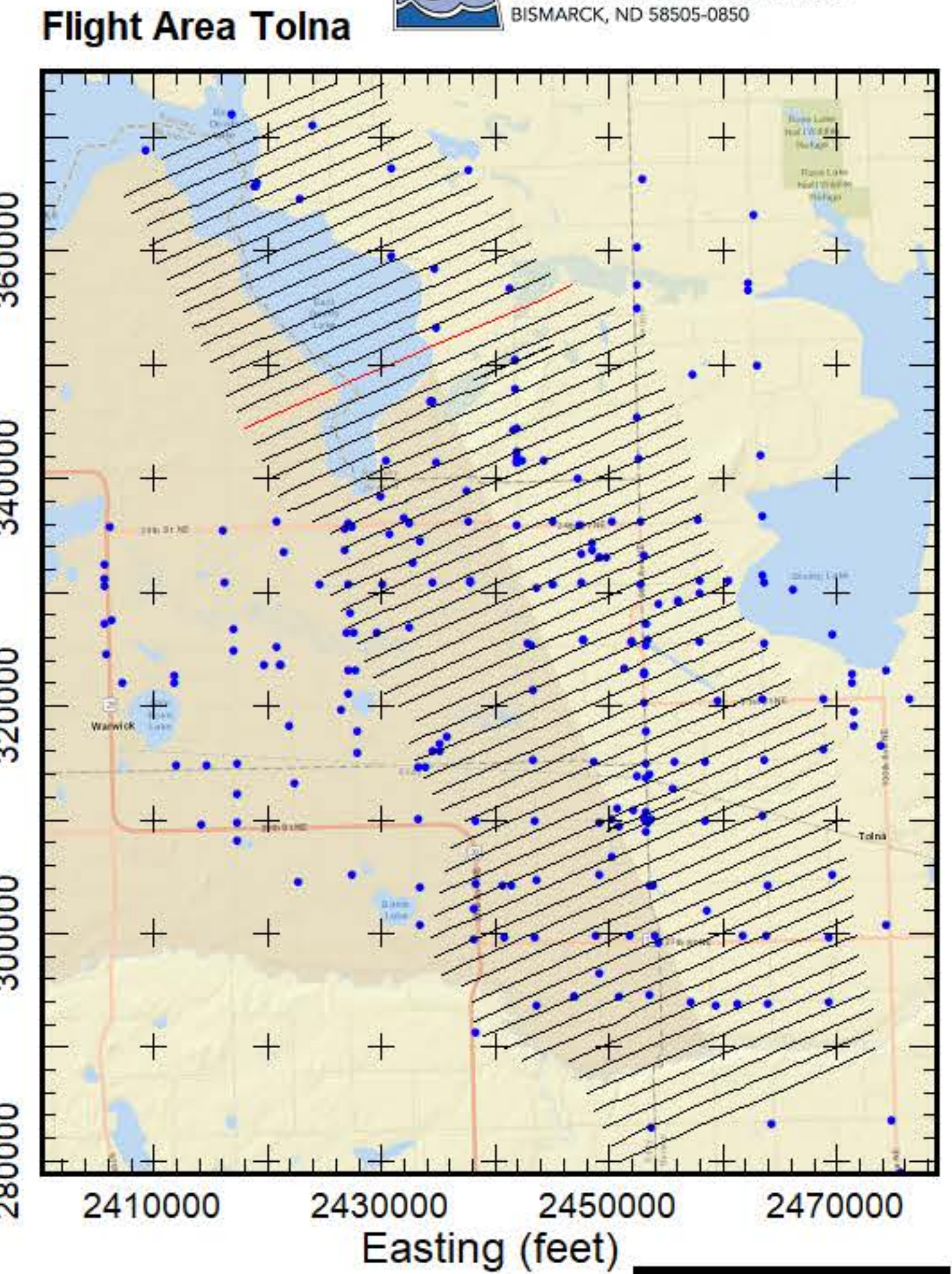
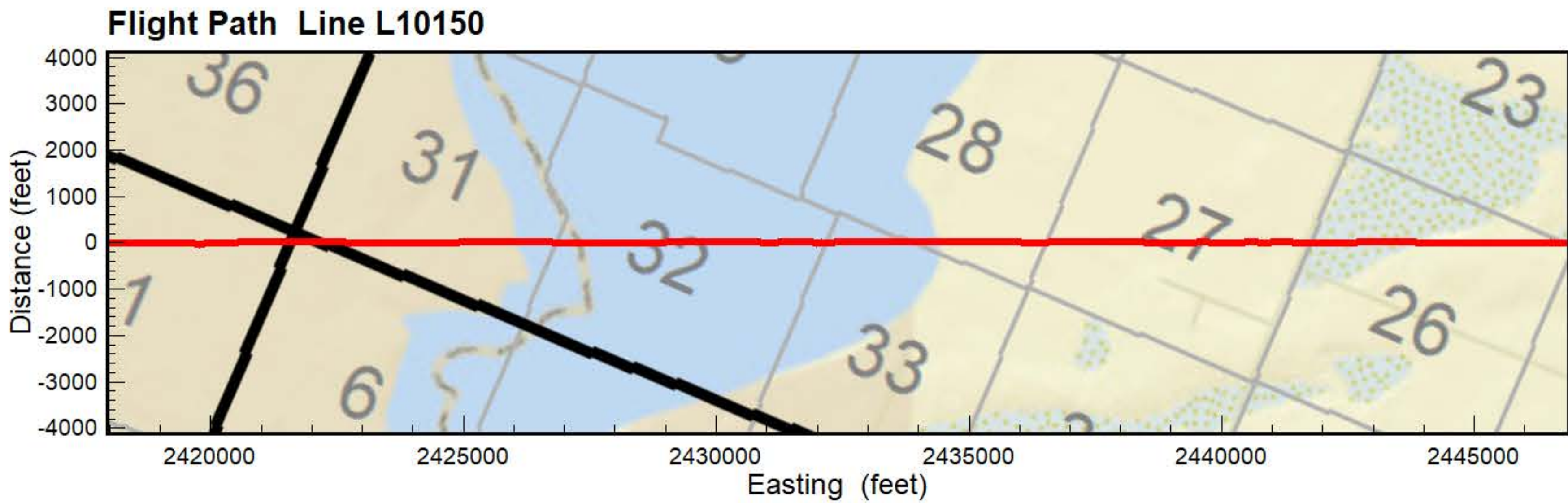


- PEAT
- LIGNITE
- COBBLES
- BOULDER
- ROCK
- PRECAMBRIAN
- WEATHERED GRANITE
- SANDSTONE
- LIMESTONE
- SILTSTONE
- CLAYSTONE
- SHALE
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- GRAVEL
- SAND & GRAVEL
- SAND
- INTERBEDDED
- SILT
- CLAY
- TILL
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- NOSAMPLE

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Tolna flight area from March 15-17, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 5.8.3. Boreholes are from the North Dakota State Water Commission Map service download October 2018 and are plotted within 1/4 mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.





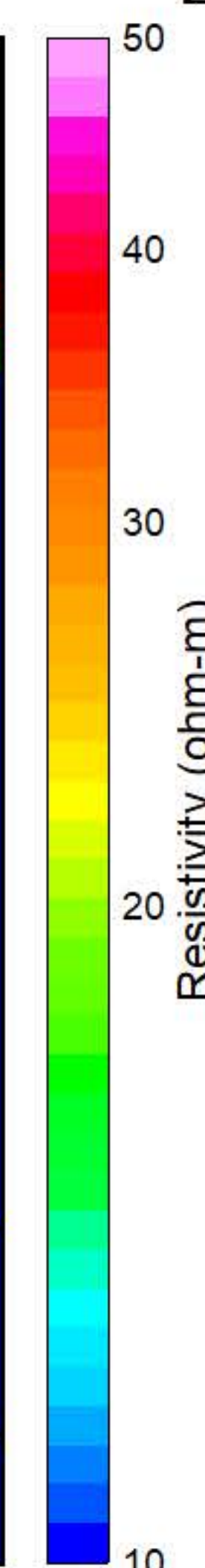
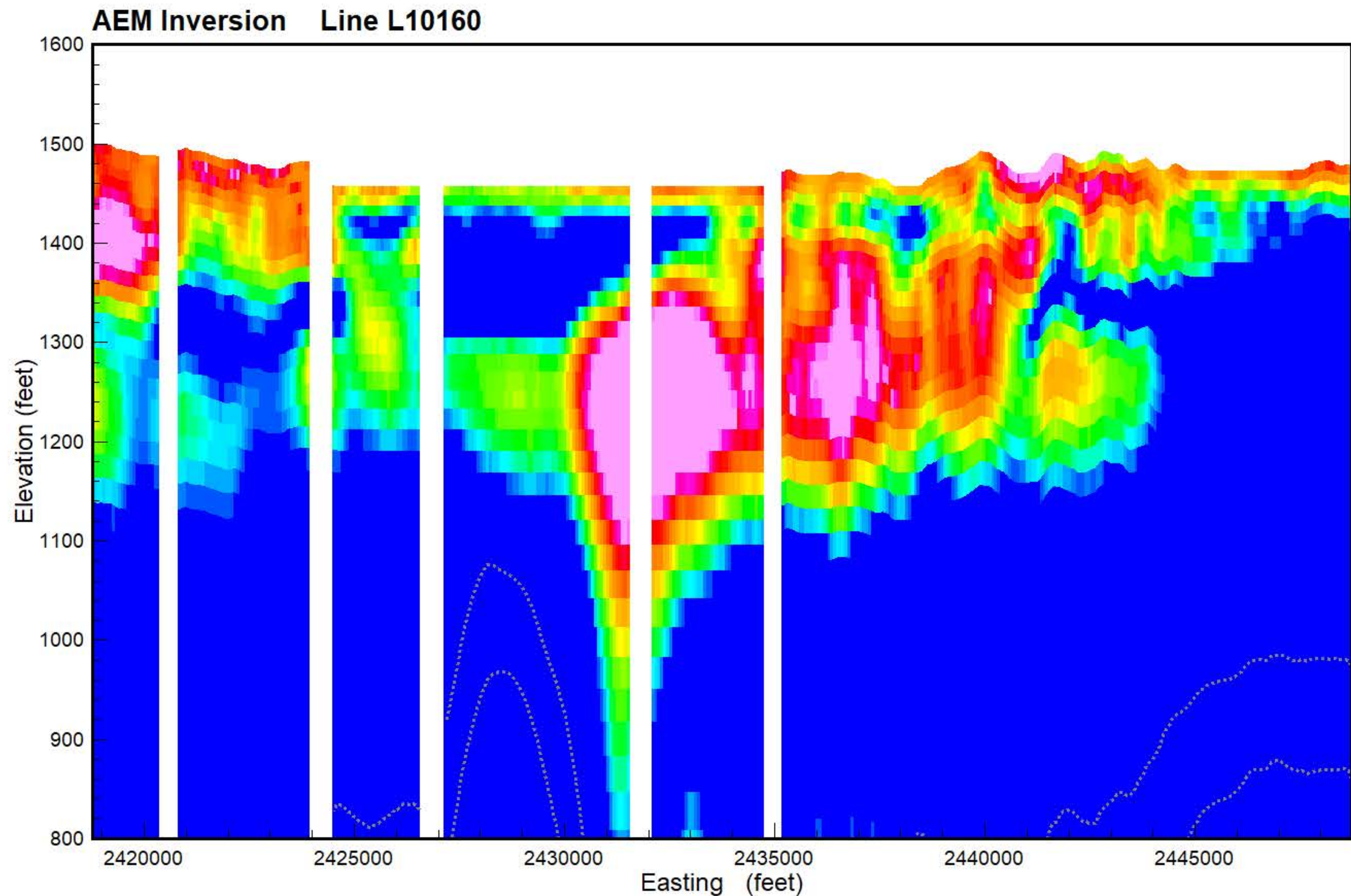
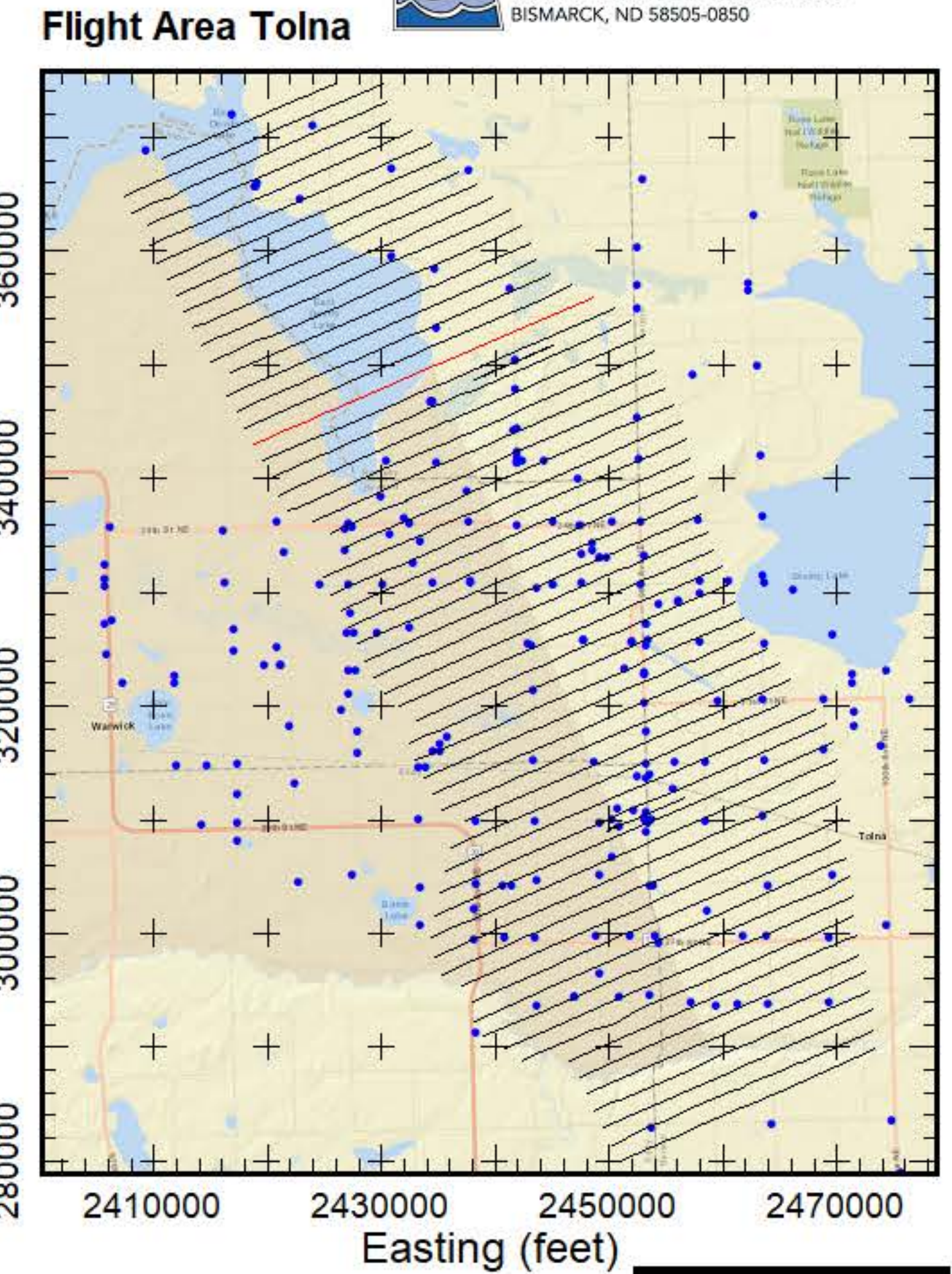
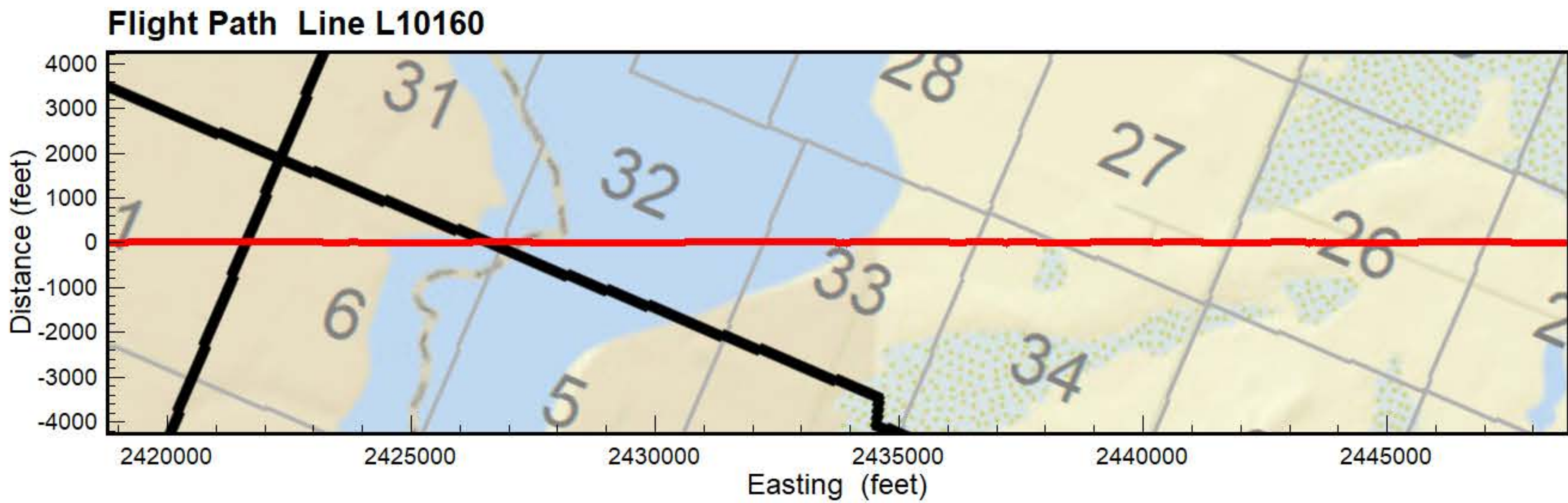


- PEAT
- LIGNITE
- COBBLES
- BOULDER
- ROCK
- PRECAMBRIAN
- WEATHERED GRANITE
- SANDSTONE
- LIMESTONE
- SILTSTONE
- CLAYSTONE
- SHALE
- BEDROCK
- GRAVEL
- SAND & GRAVEL
- SAND
- INTERBEDDED
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- TOPSOIL
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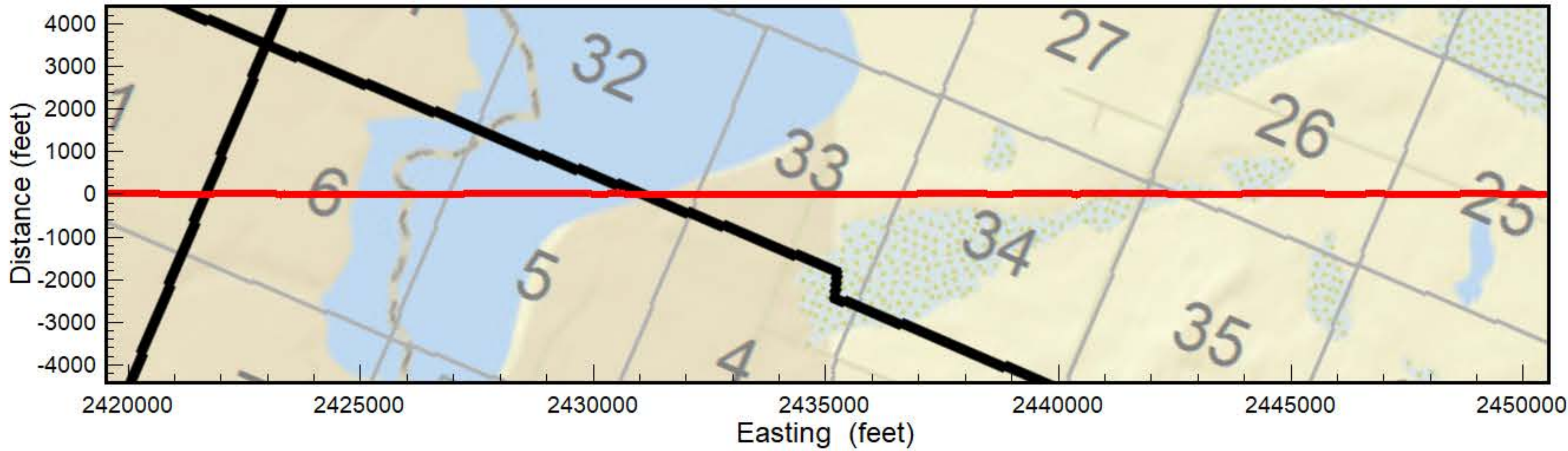
- PEAT
- LIGNITE
- COBBLES
- BOULDER
- ROCK
- PRECAMBRIAN
- WEATHERED GRANITE
- SANDSTONE
- LIMESTONE
- SILTSTONE
- CLAYSTONE
- SHALE
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- SAND & GRAVEL
- SAND
- INTERBEDDED
- SILT
- CLAY
- TILL
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- TOPSOIL
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Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Tolna flight area from March 15-17, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 5.8.3. Boreholes are from the North Dakota State Water Commission Map service download October 2018 and are plotted within 1/4 mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

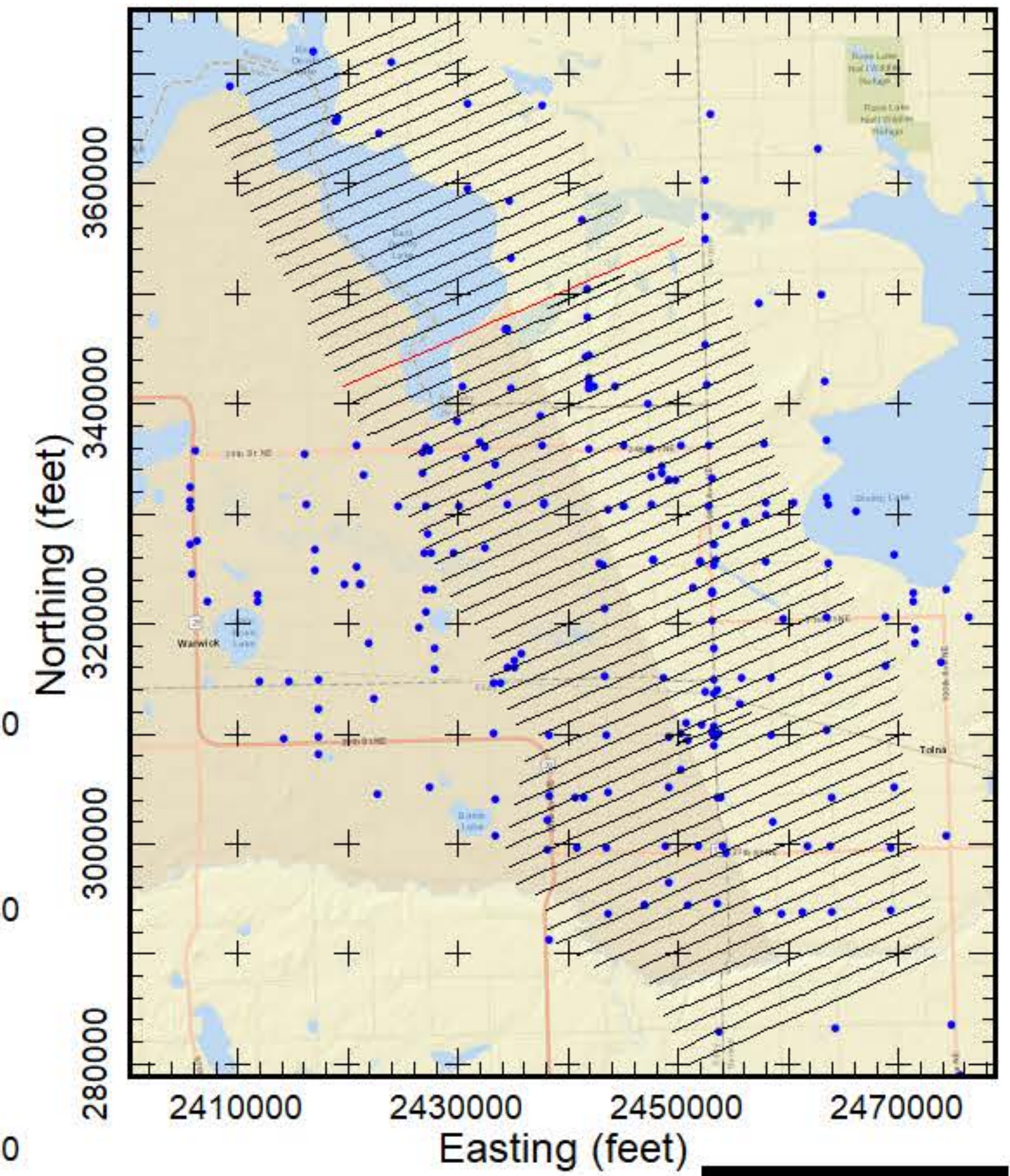




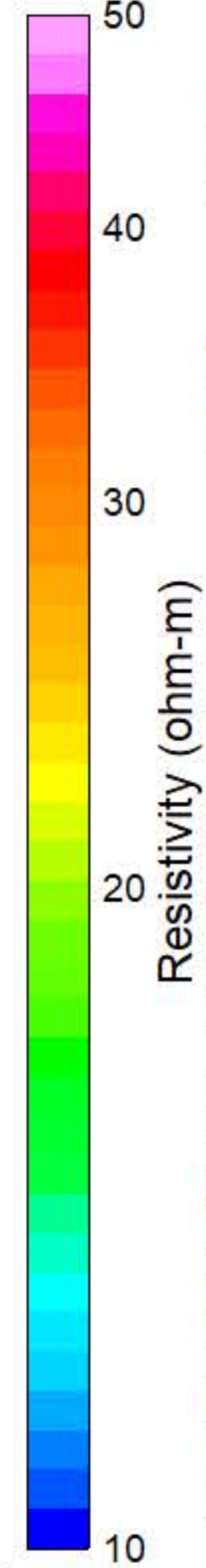
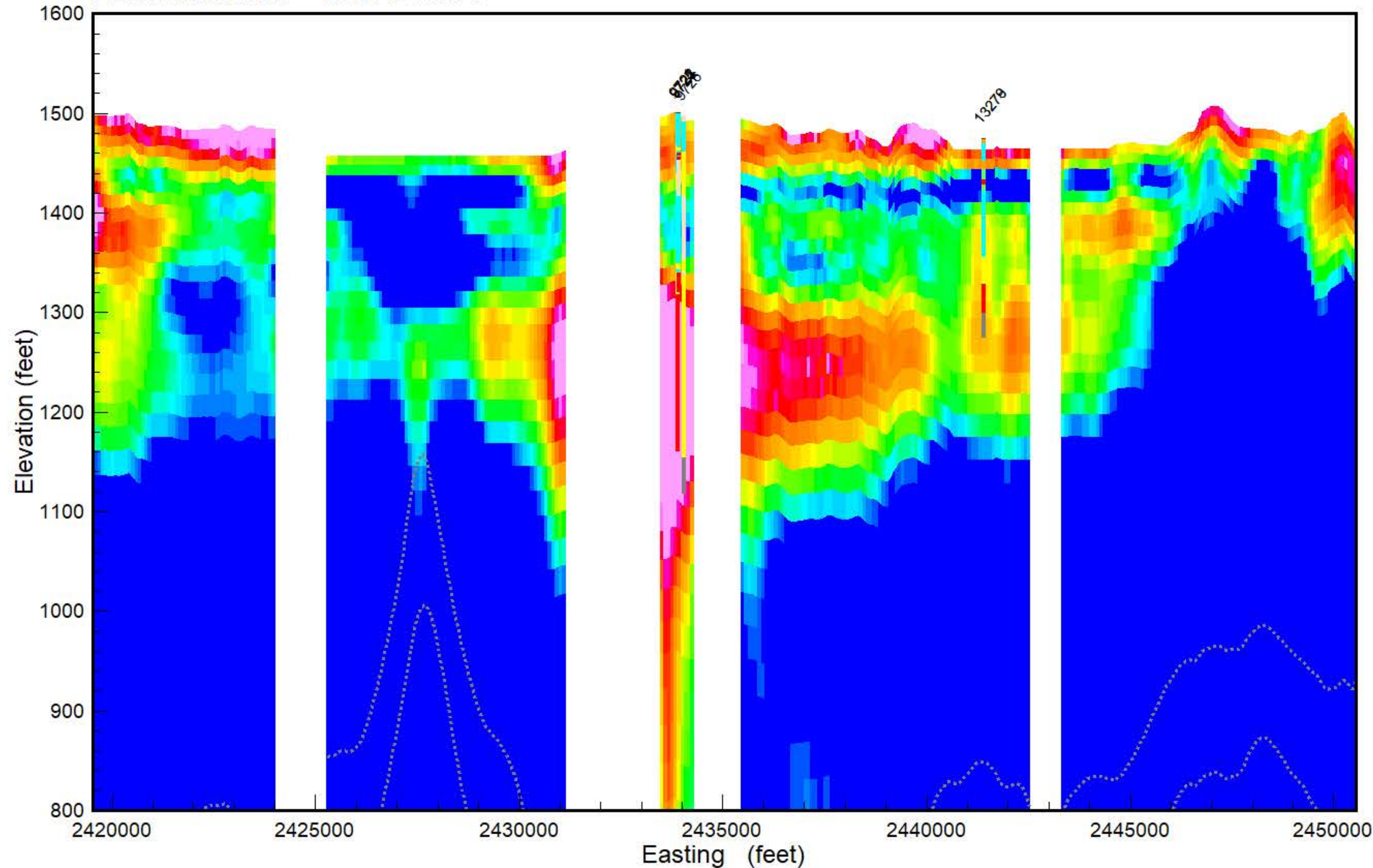
**Flight Path Line L10170**



**Flight Area Tolna**



**AEM Inversion Line L10170**



- PEAT
- LIGNITE
- COBBLES
- BOULDER
- ROCK
- PRECAMBRIAN
- WEATHERED GRANITE
- SANDSTONE
- LIMESTONE
- SILTSTONE
- CLAYSTONE
- SHALE
- BEDROCK
- GRAVEL
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- INTERBEDDED
- SILT
- CLAY
- TILL
- FILL
- TOPSOIL
- NOSAMPLE

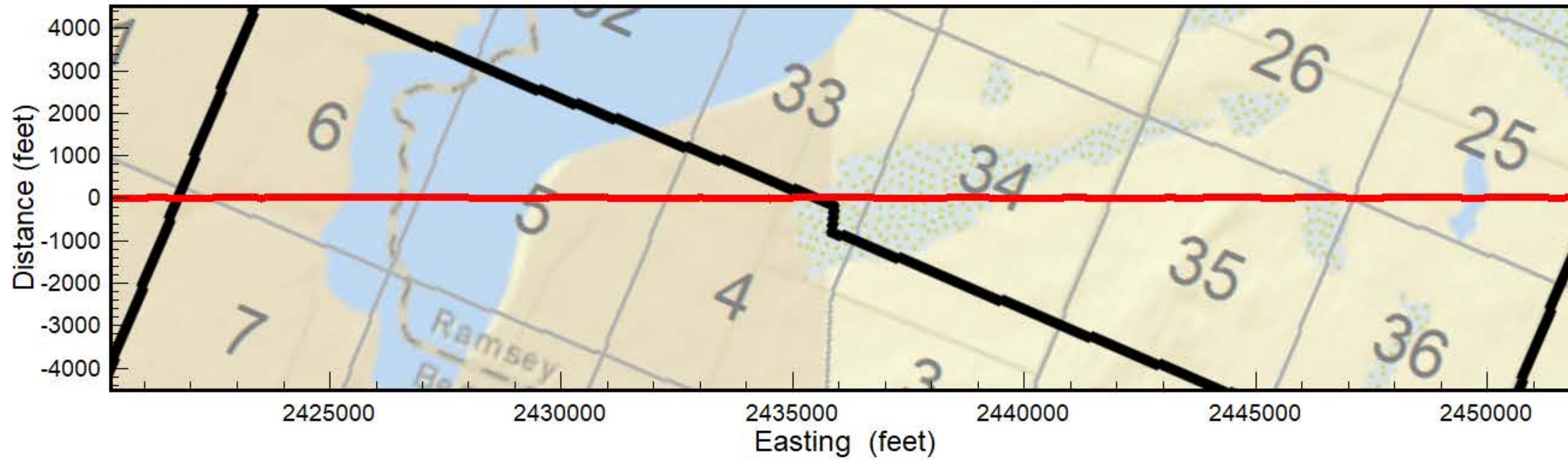


Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Tolna flight area from March 15-17, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 5.8.3. Boreholes are from the North Dakota State Water Commission Map service download October 2018 and are plotted within 1/4 mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua AGF Frameworks, LLC.

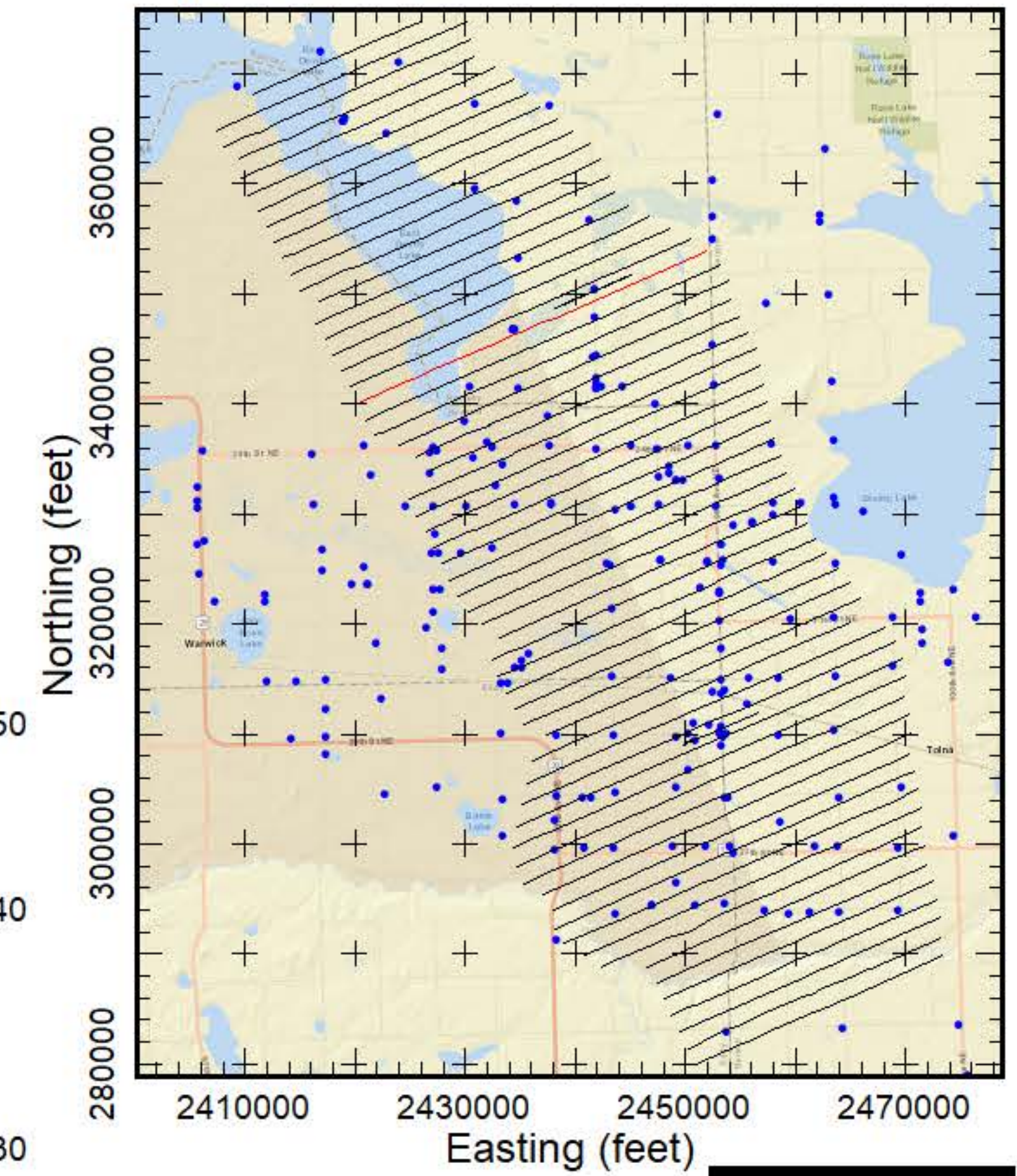




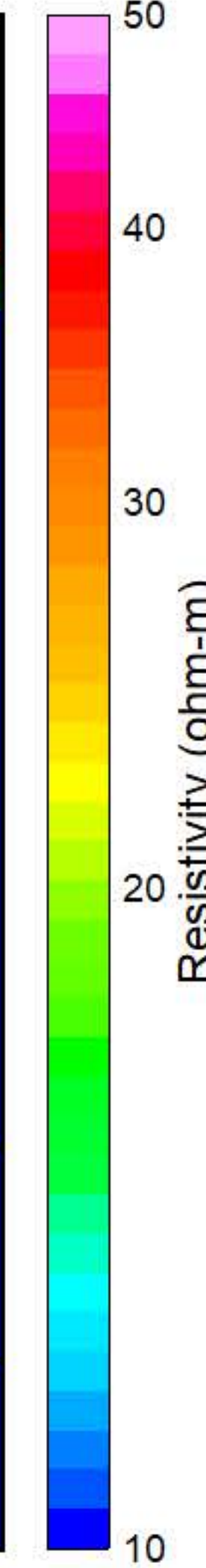
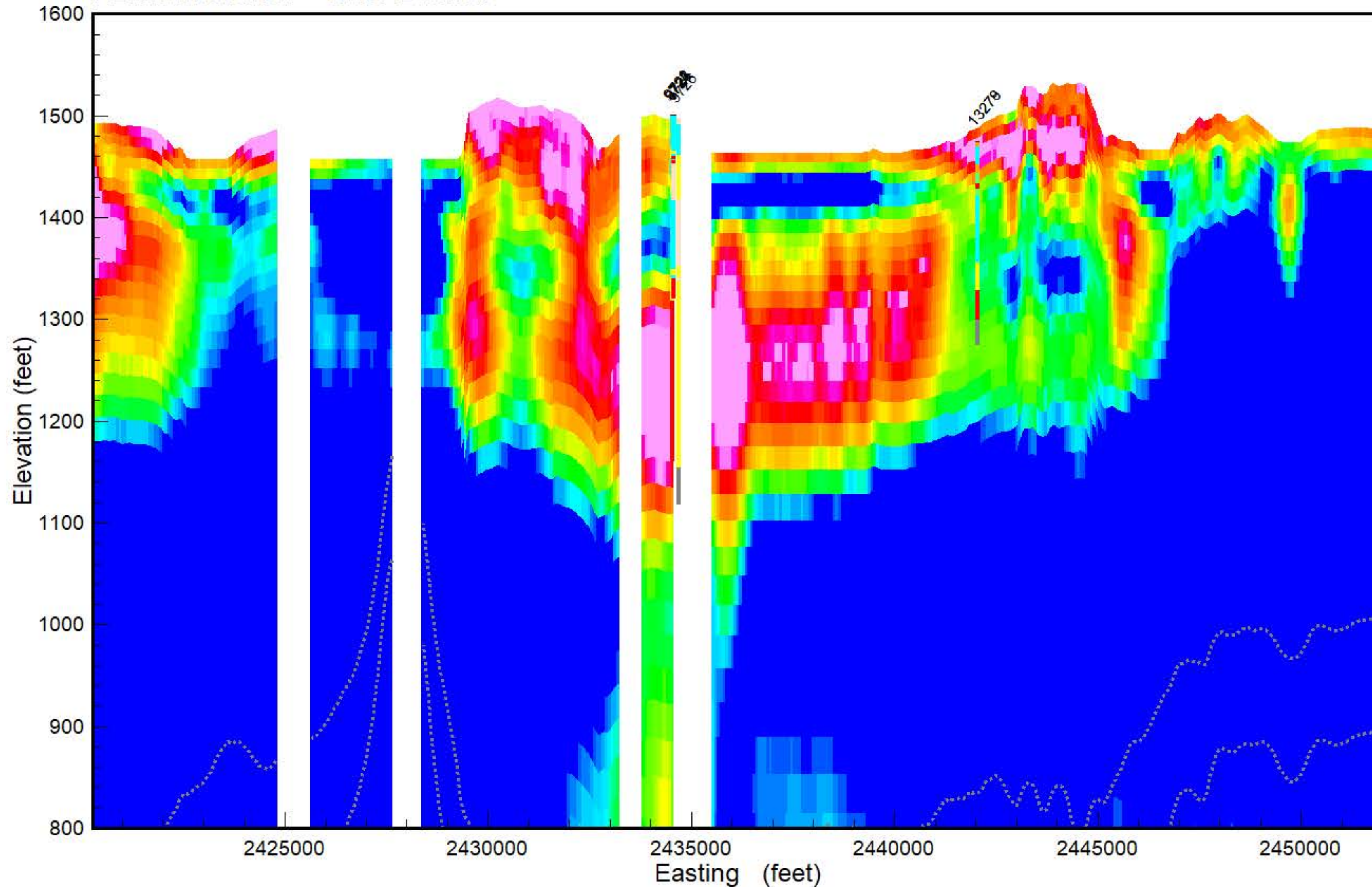
**Flight Path Line L10180**



**Flight Area Tolna**



**AEM Inversion Line L10180**



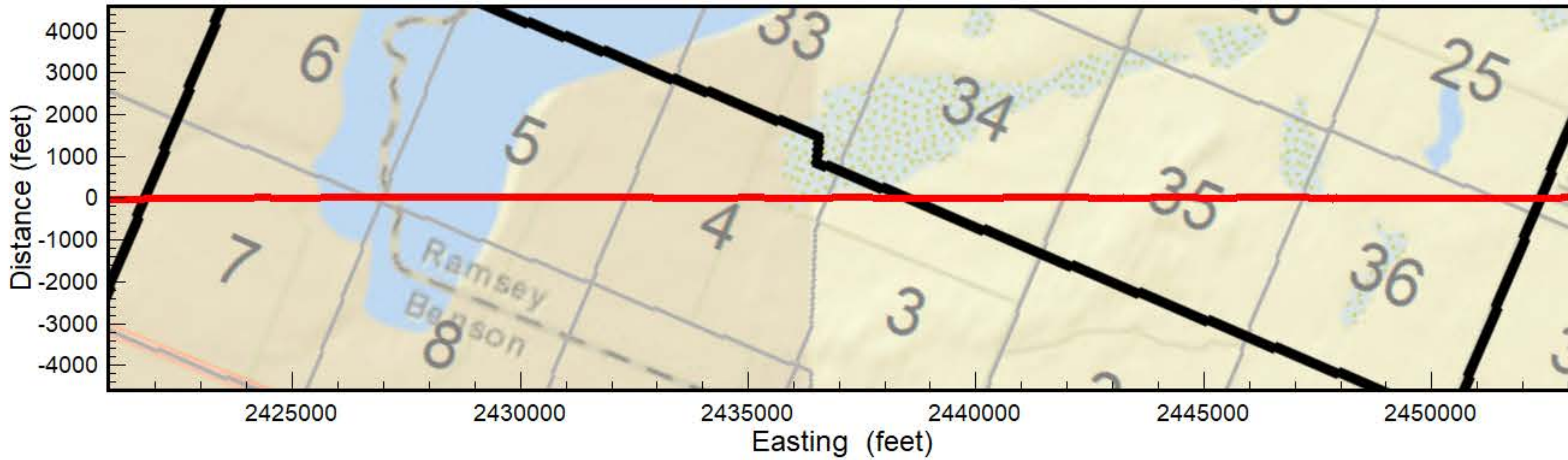
- PEAT
- LIGNITE
- COBBLES
- BOULDER
- ROCK
- PRECAMBRIAN
- WEATHERED GRANITE
- SANDSTONE
- LIMESTONE
- SILTSTONE
- CLAYSTONE
- SHALE
- BEDROCK
- GRAVEL
- SAND & GRAVEL
- SAND
- INTERBEDDED
- SILT
- CLAY
- TILL
- FILL
- TOPSOIL
- NOSAMPLE

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Tolna flight area from March 15-17, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 5.8.3. Boreholes are from the North Dakota State Water Commission Map service download October 2018 and are plotted within 1/4 mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

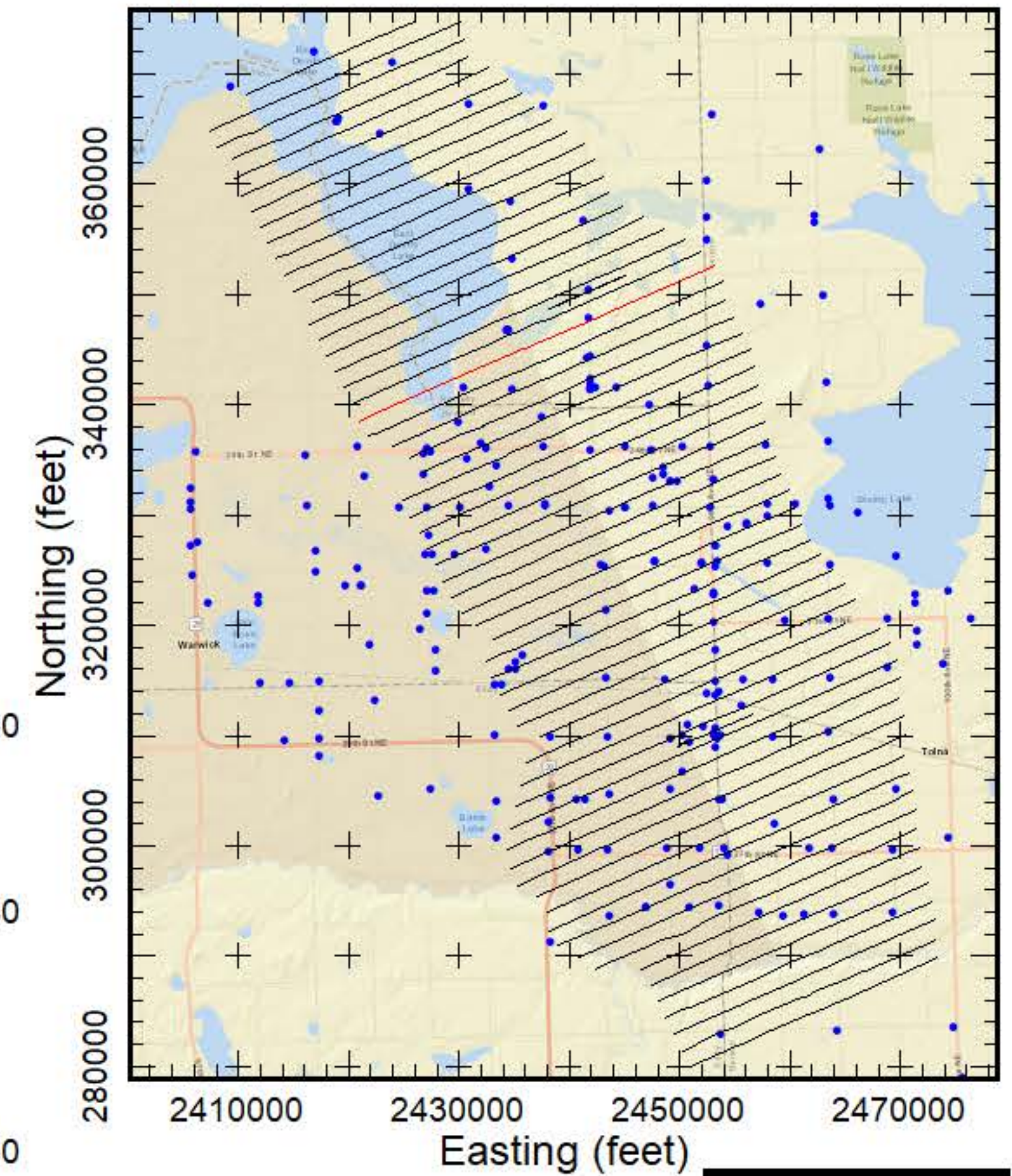




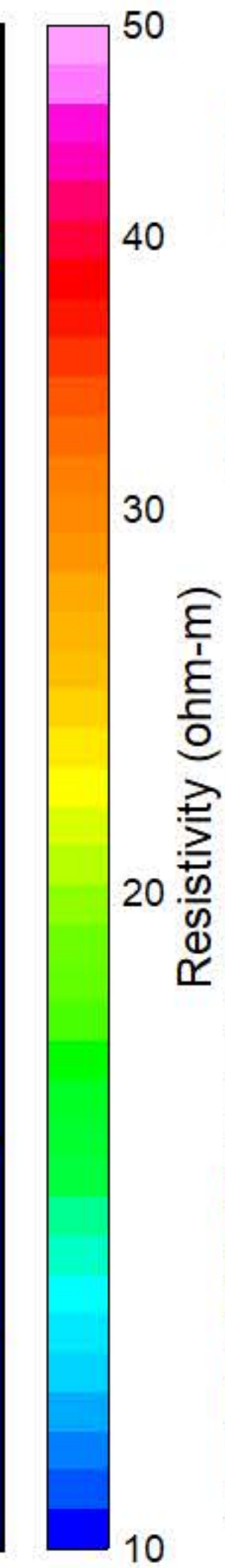
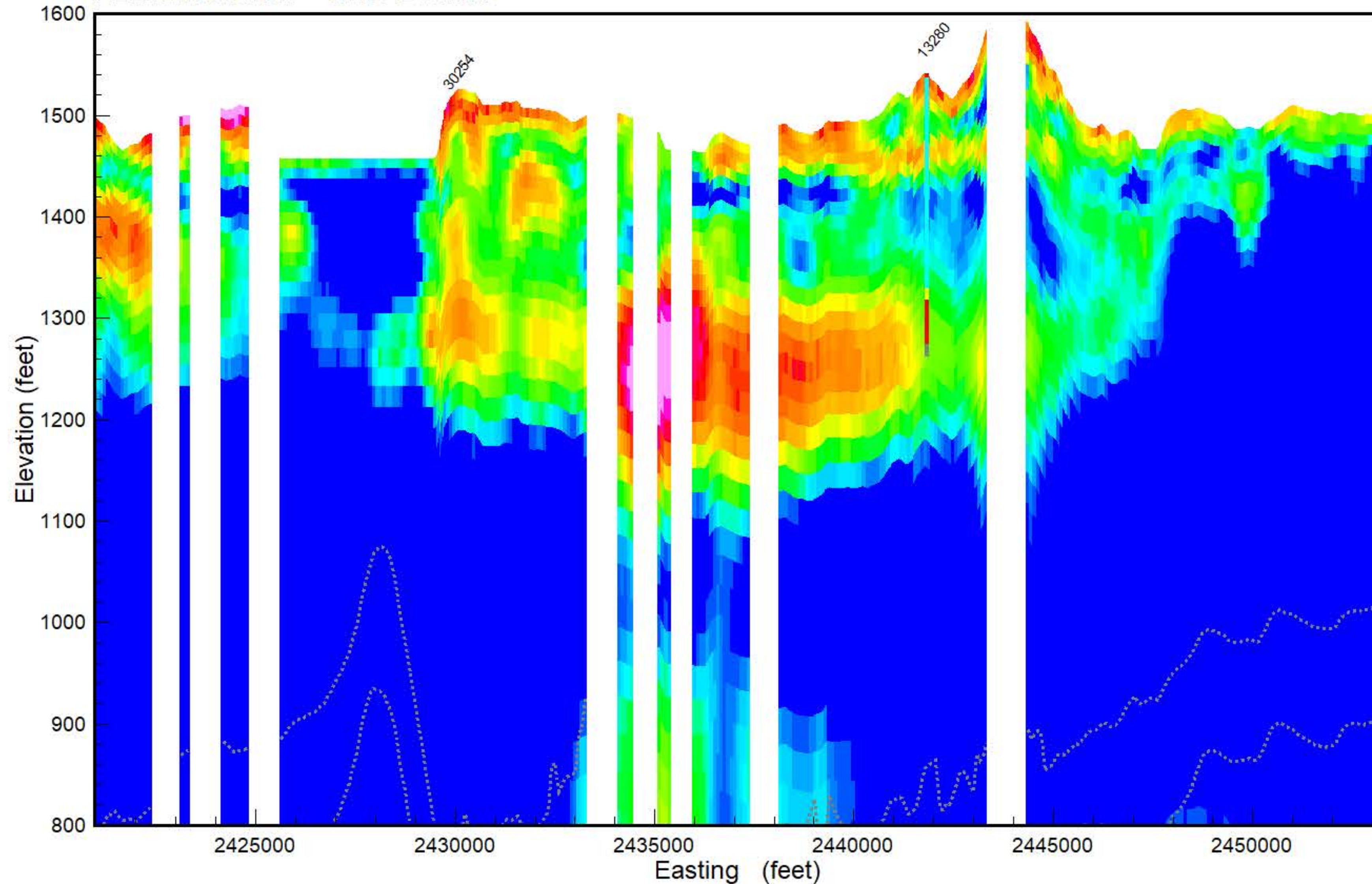
**Flight Path Line L10190**



**Flight Area Tolna**



**AEM Inversion Line L10190**



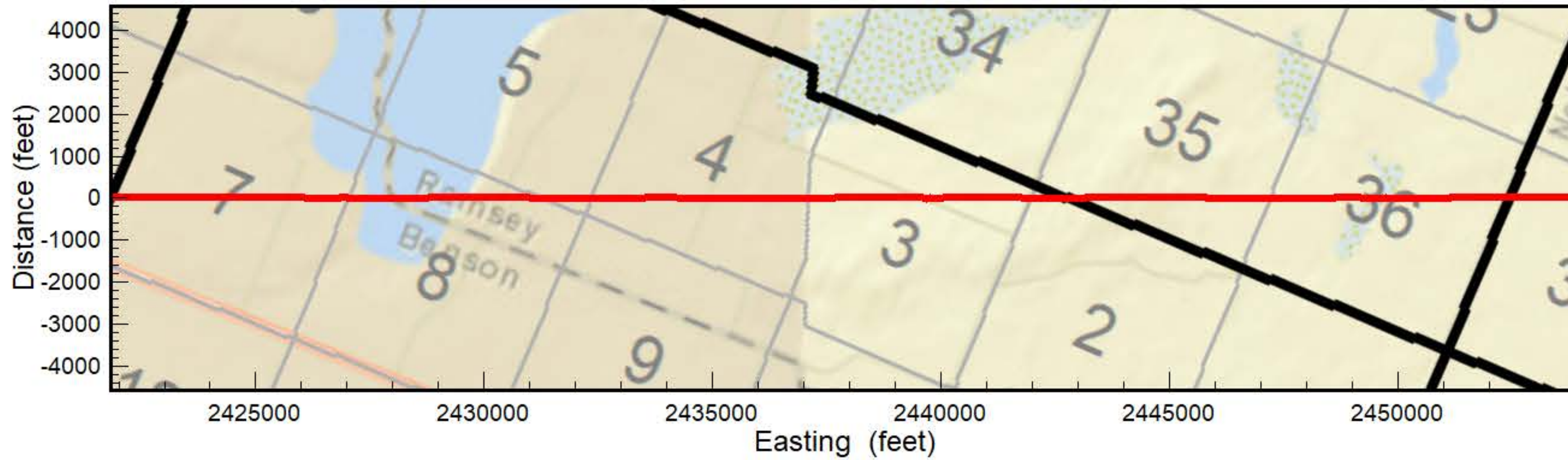
- PEAT
- LIGNITE
- COBBLES
- BOULDER
- ROCK
- PRECAMBRIAN
- WEATHERED GRANITE
- SANDSTONE
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- SILTSTONE
- CLAYSTONE
- SHALE
- BEDROCK
- GRAVEL
- SAND & GRAVEL
- SAND
- INTERBEDDED
- SILT
- CLAY
- TILL
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- TOPSOIL
- NOSAMPLE

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Tolna flight area from March 15-17, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 5.8.3. Boreholes are from the North Dakota State Water Commission Map service download October 2018 and are plotted within 1/4 mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

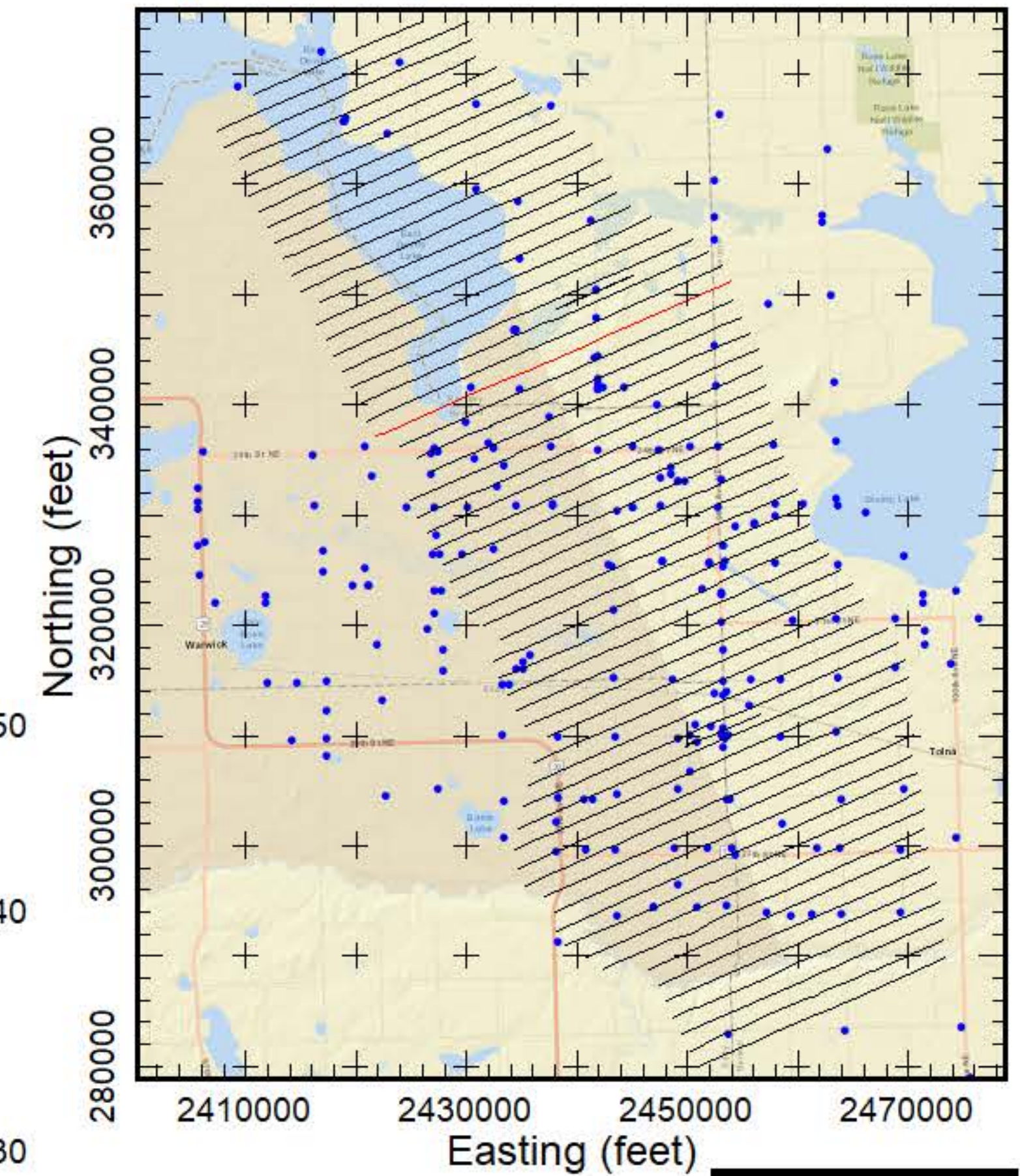




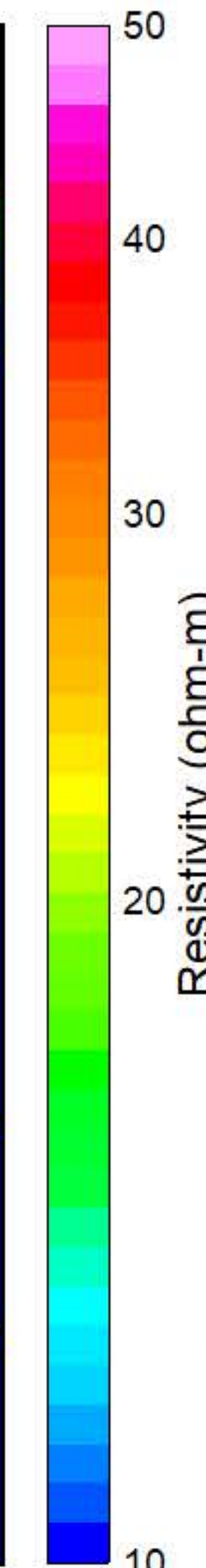
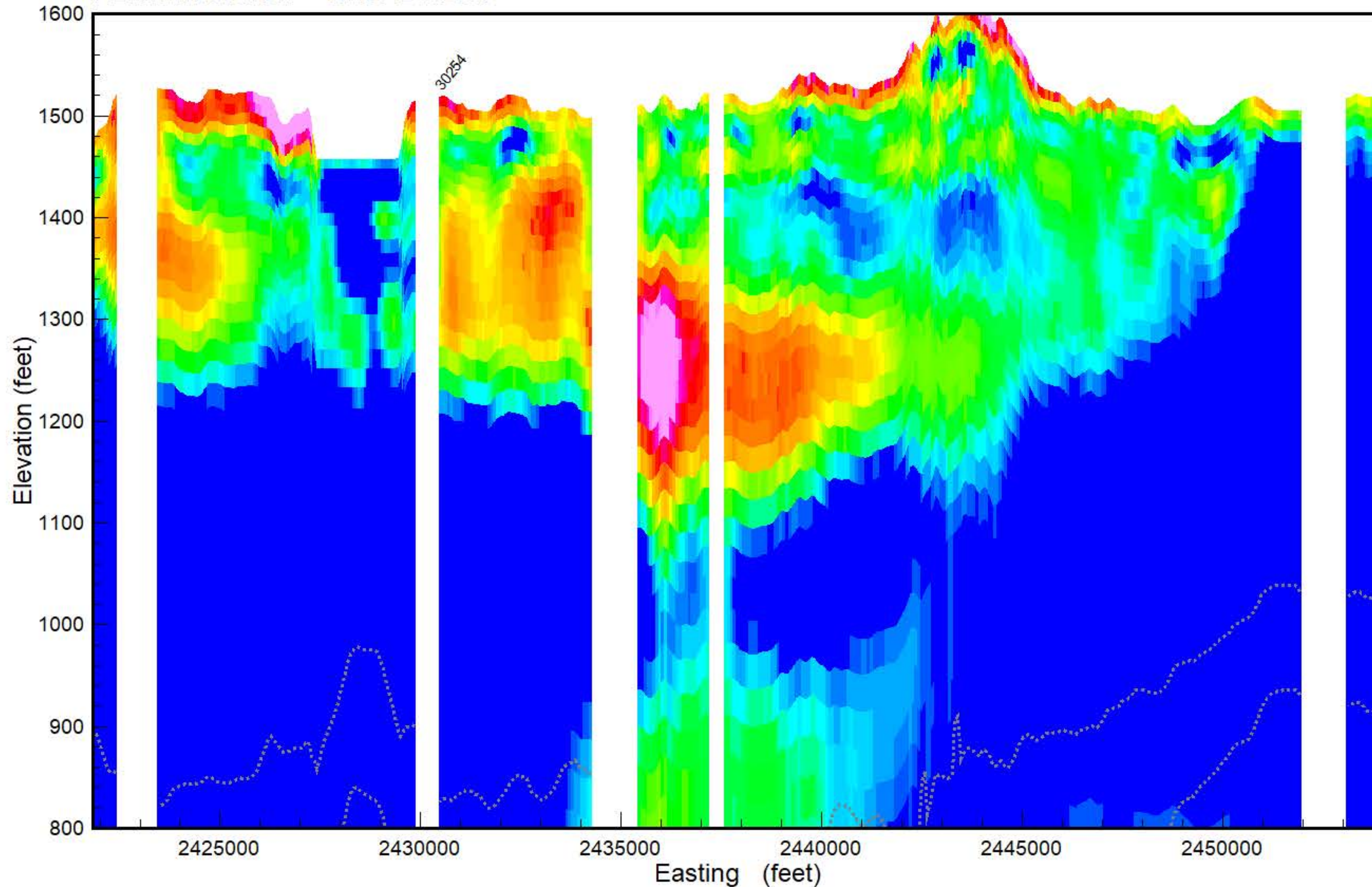
**Flight Path Line L10200**



**Flight Area Tolna**



**AEM Inversion Line L10200**



- PEAT
- LIGNITE
- COBBLES
- BOULDER
- ROCK
- PRECAMBRIAN
- WEATHERED GRANITE
- SANDSTONE
- LIMESTONE
- SILTSTONE
- CLAYSTONE
- SHALE
- BEDROCK
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- TOPSOIL
- NOSAMPLE

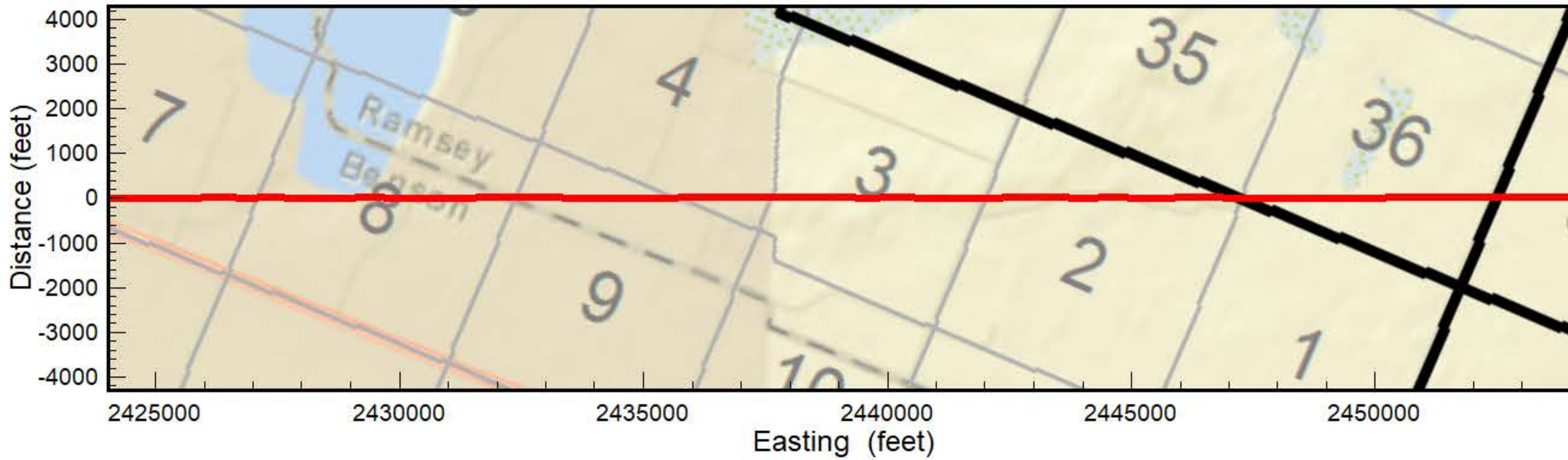


Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Tolna flight area from March 15-17, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 5.8.3. Boreholes are from the North Dakota State Water Commission Map service download October 2018 and are plotted within 1/4 mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

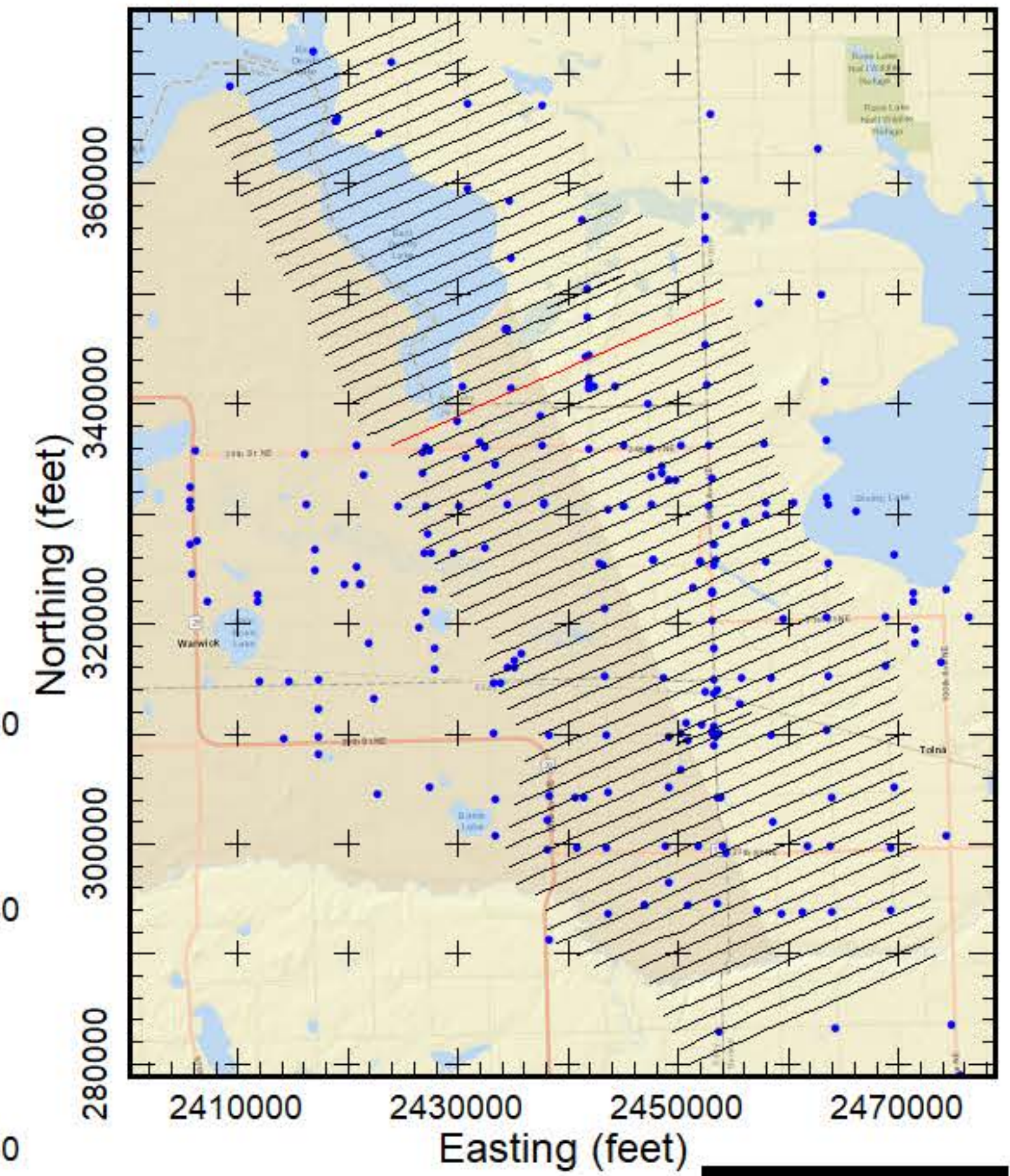




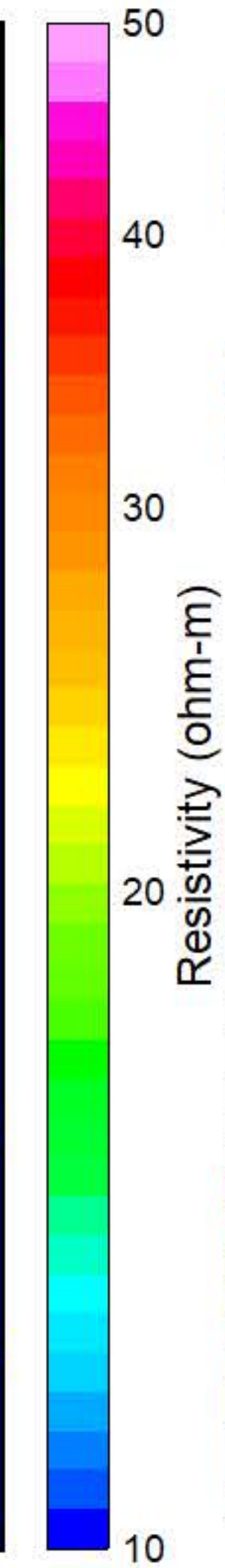
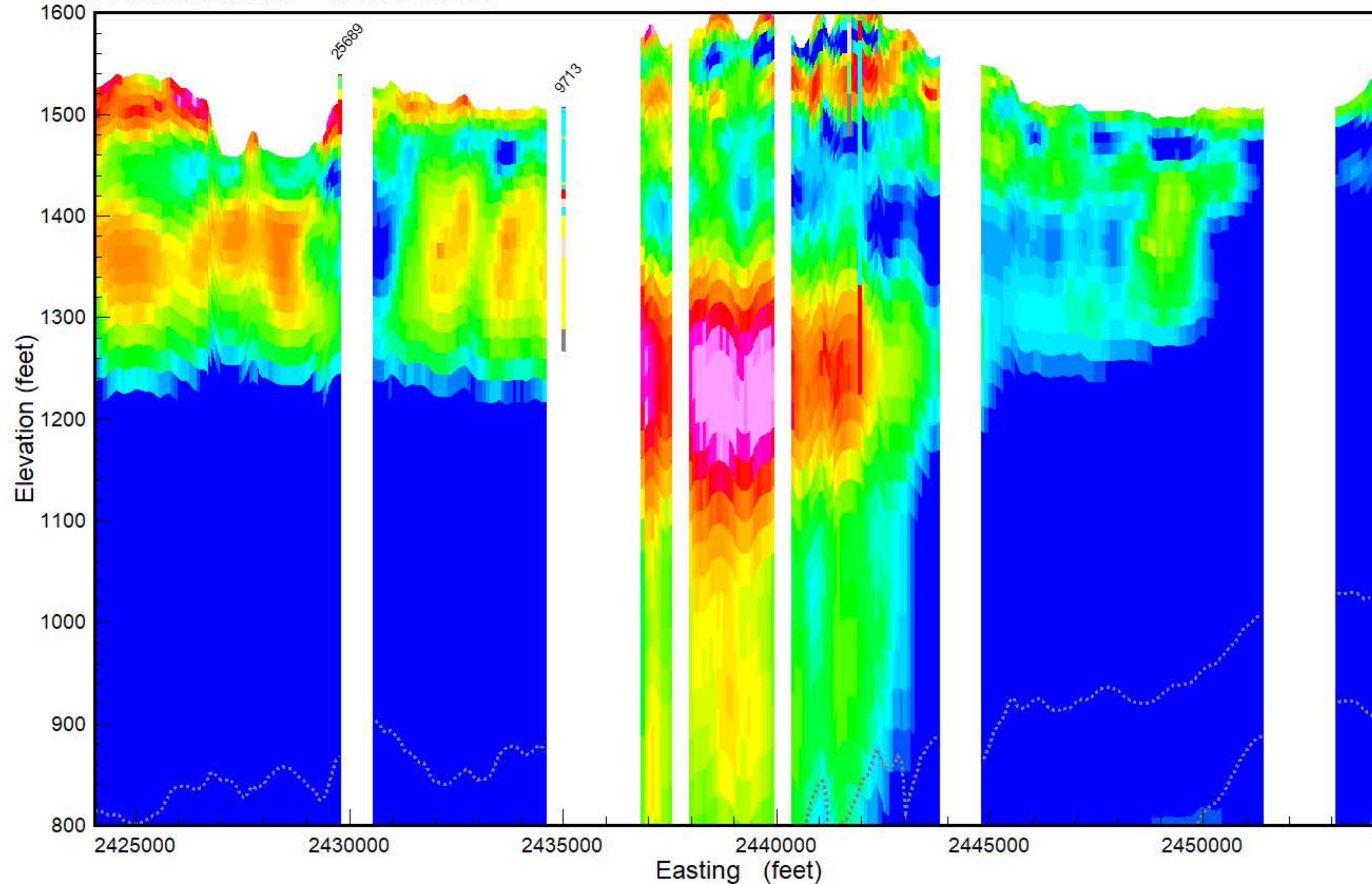
**Flight Path Line L10210**



**Flight Area Tolna**



**AEM Inversion Line L10210**



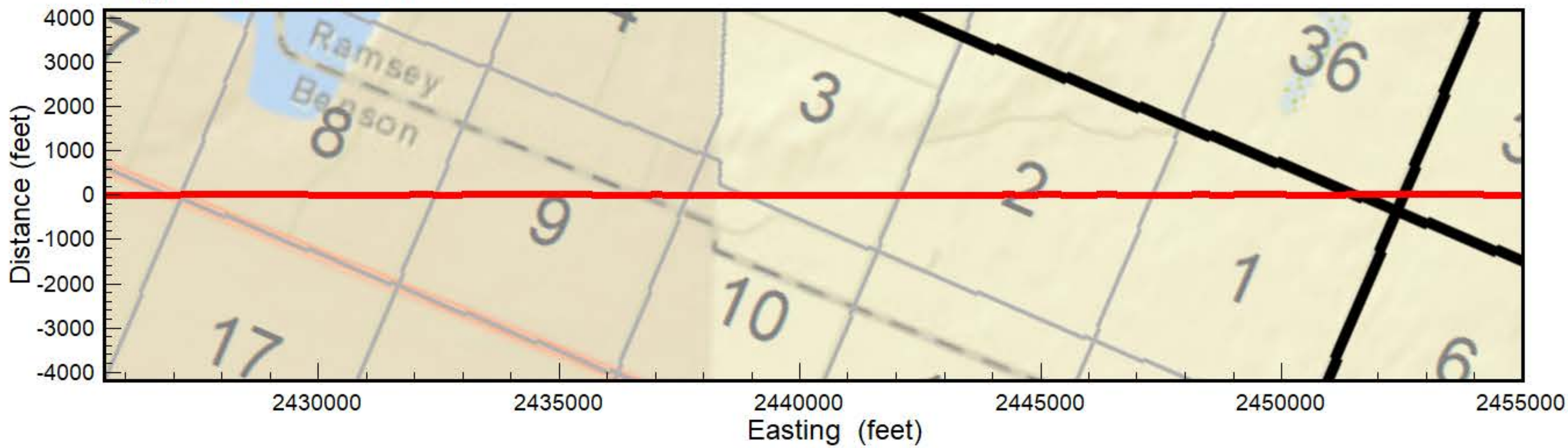
- PEAT
- LIGNITE
- COBBLES
- BOULDER
- ROCK
- PRECAMBRIAN
- WEATHERED GRANITE
- SANDSTONE
- LIMESTONE
- SILTSTONE
- CLAYSTONE
- SHALE
- BEDROCK
- GRAVEL
- SAND & GRAVEL
- SAND
- INTERBEDDED
- SILT
- CLAY
- TILL
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- NOSAMPLE

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Tolna flight area from March 15-17, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 5.8.3. Boreholes are from the North Dakota State Water Commission Map service download October 2018 and are plotted within 1/4 mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

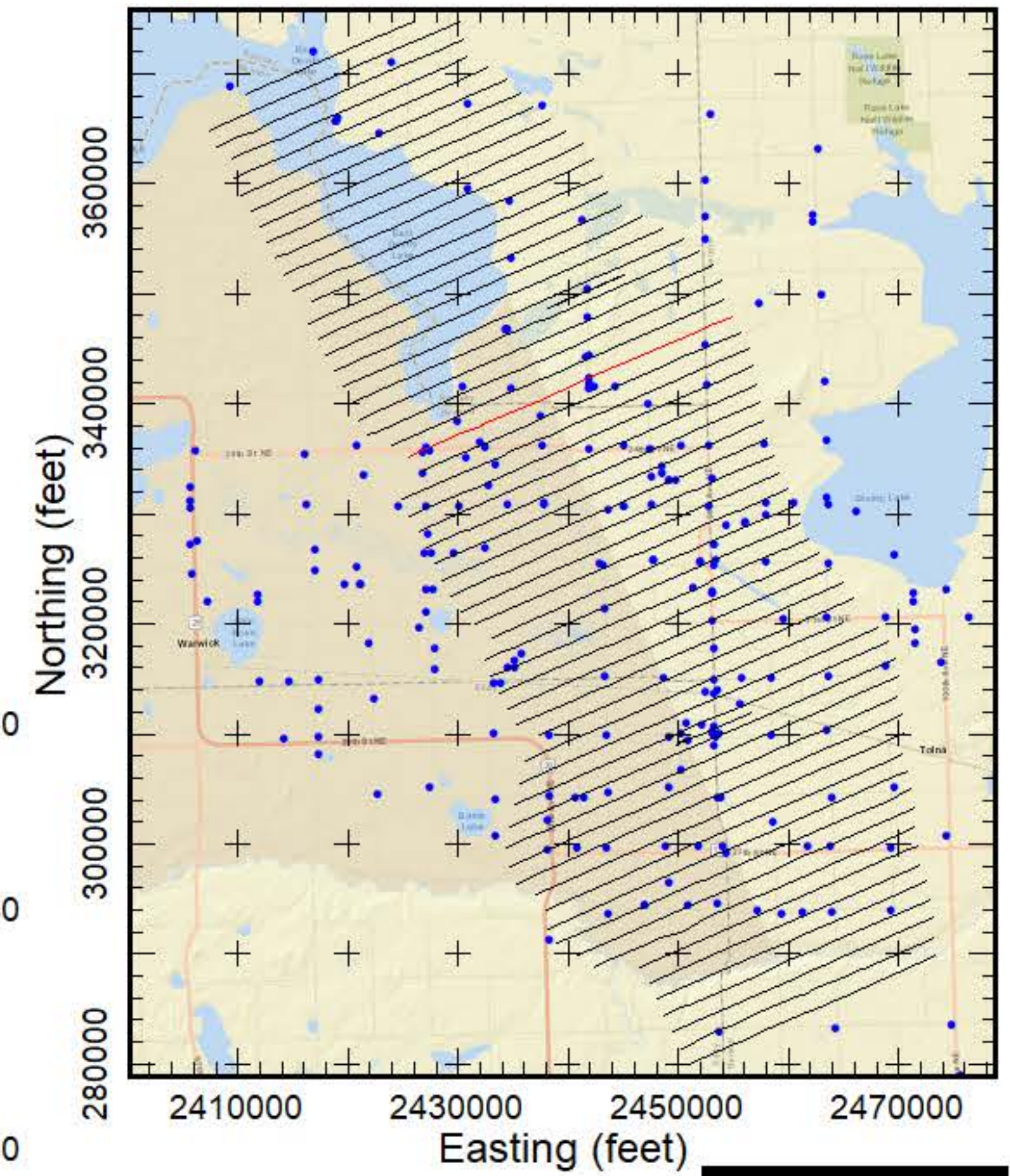




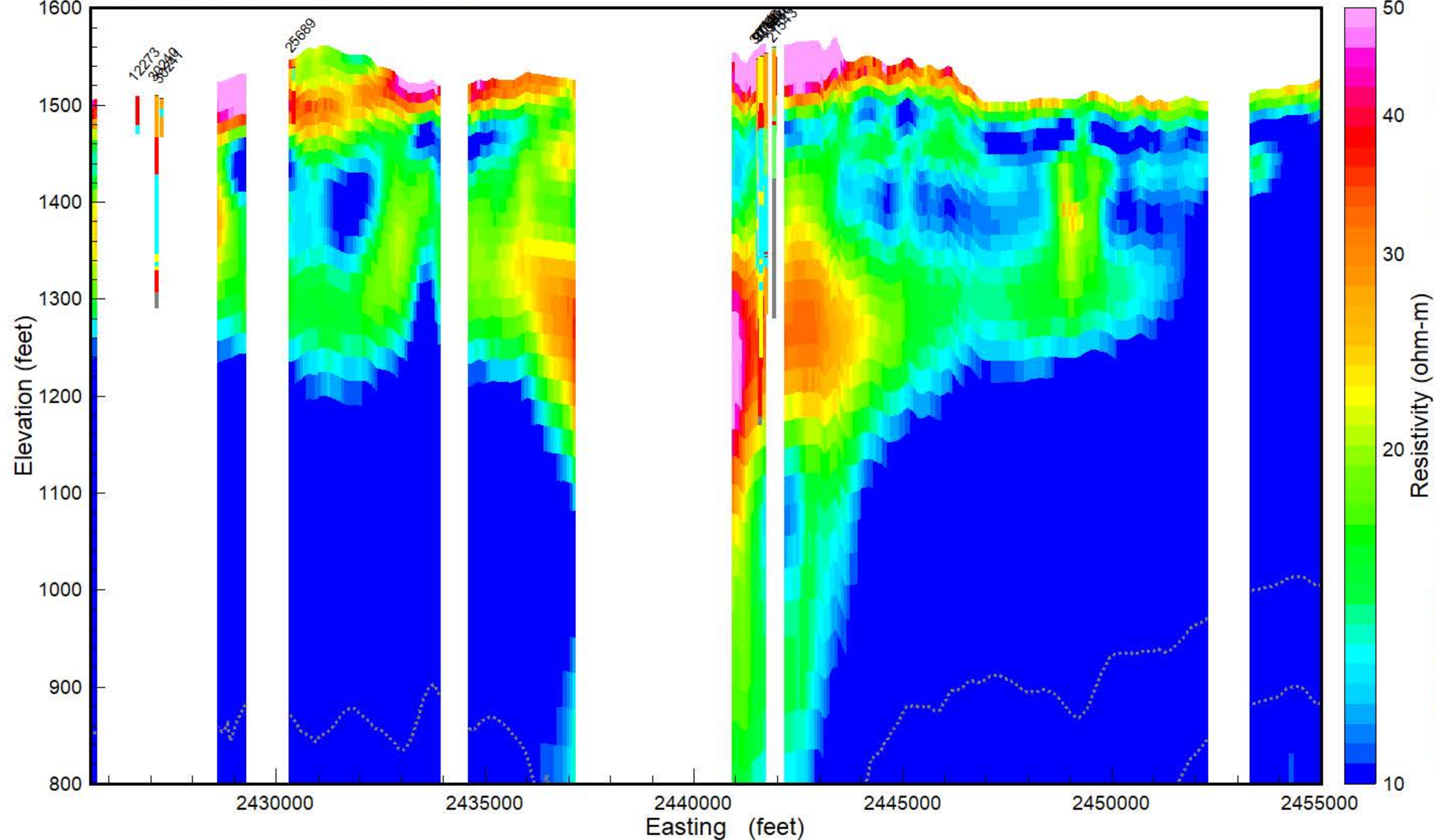
**Flight Path Line L10220**



**Flight Area Tolna**



**AEM Inversion Line L10220**

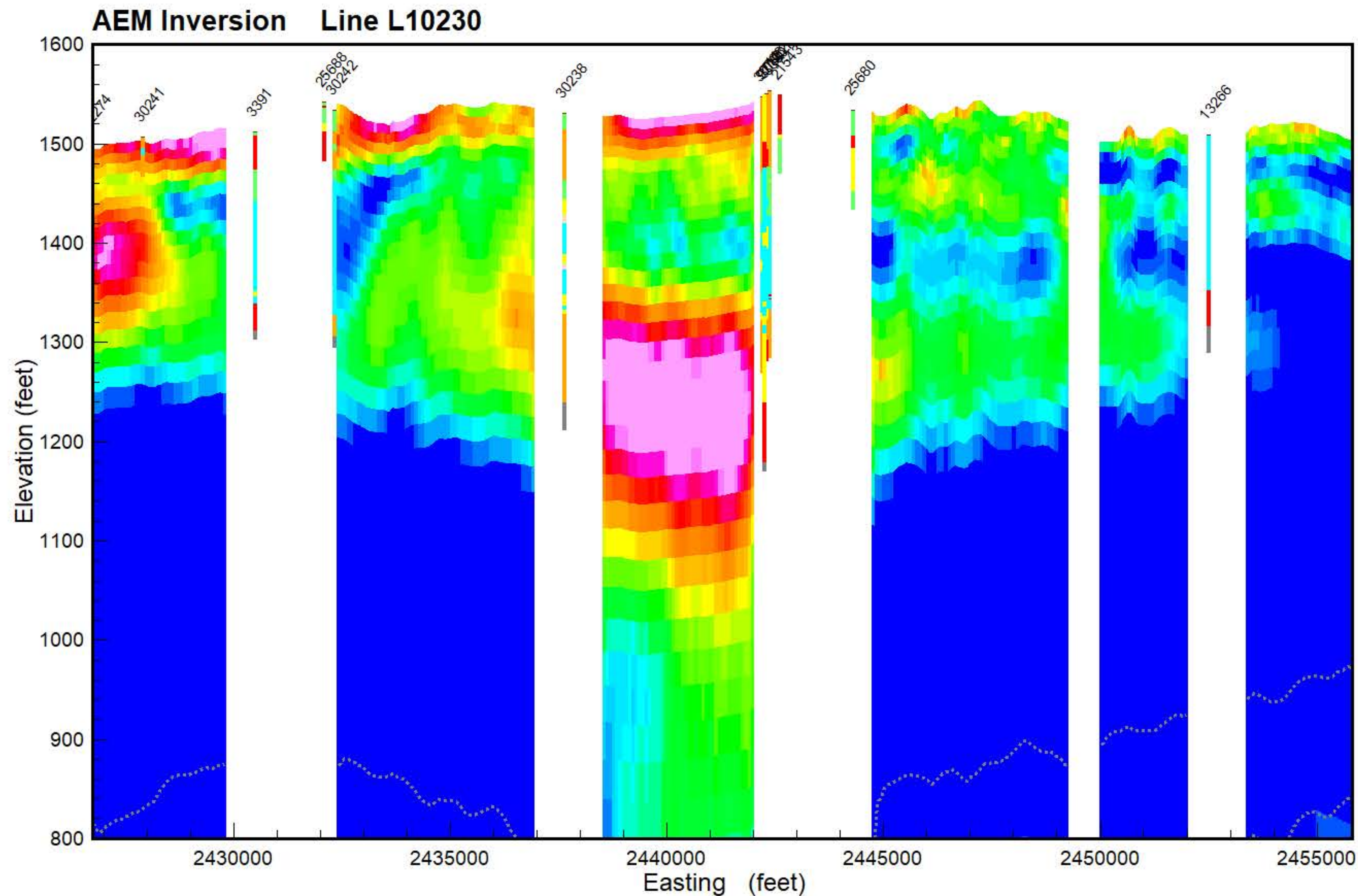
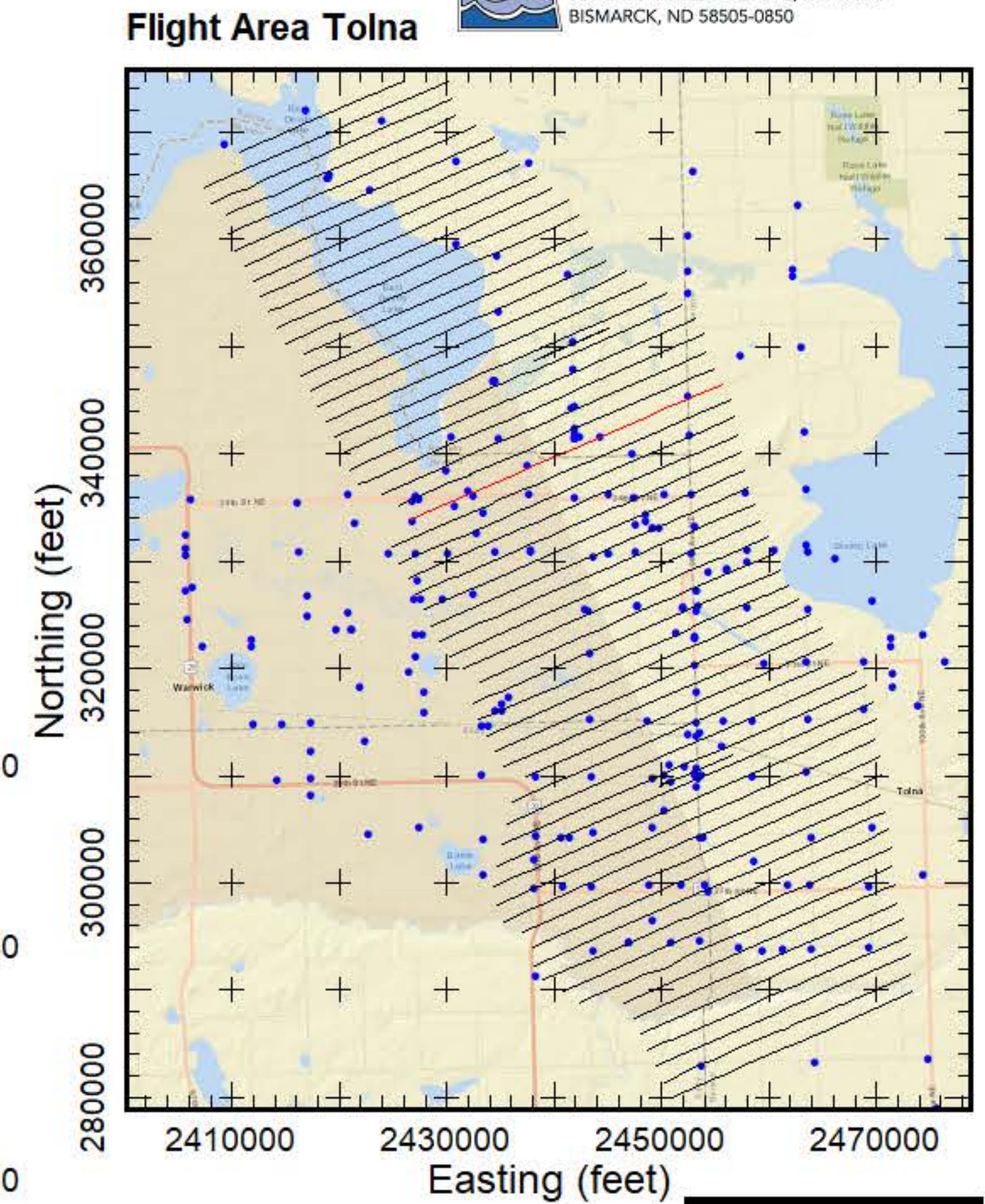
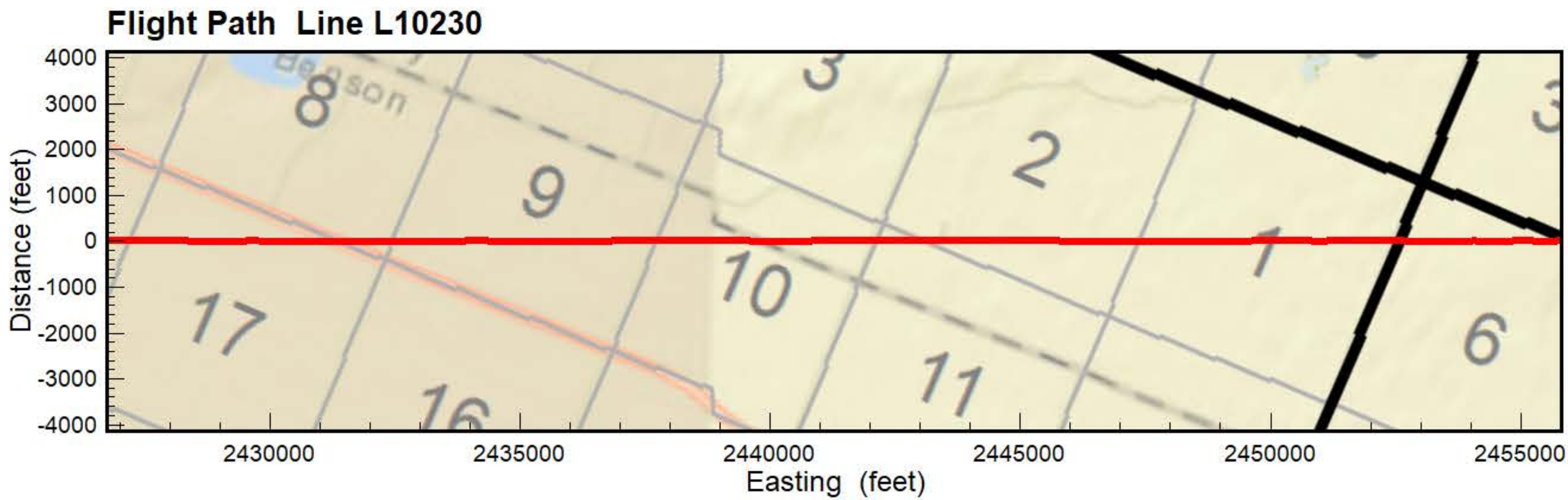


**GEOTECH**

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Tolna flight area from March 15-17, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 5.8.3. Boreholes are from the North Dakota State Water Commission Map service download October 2018 and are plotted within 1/4 mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

- PEAT
- LIGNITE
- COBBLES
- BOULDER
- ROCK
- PRECAMBRIAN
- WEATHERED GRANITE
- SANDSTONE
- LIMESTONE
- SILTSTONE
- CLAYSTONE
- SHALE
- BEDROCK
- GRAVEL
- SAND & GRAVEL
- SAND
- INTERBEDDED
- SILT
- CLAY
- TILL
- FILL
- TOPSOIL
- NOSAMPLE



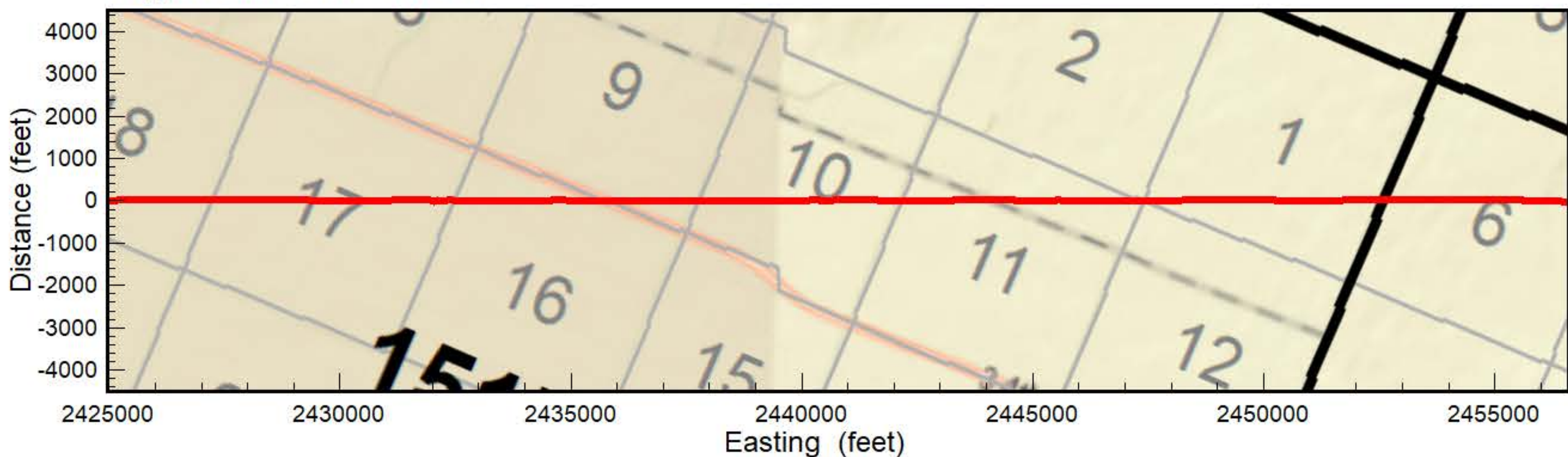


Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Tolna flight area from March 15-17, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 5.8.3. Boreholes are from the North Dakota State Water Commission Map service download October 2018 and are plotted within 1/4 mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

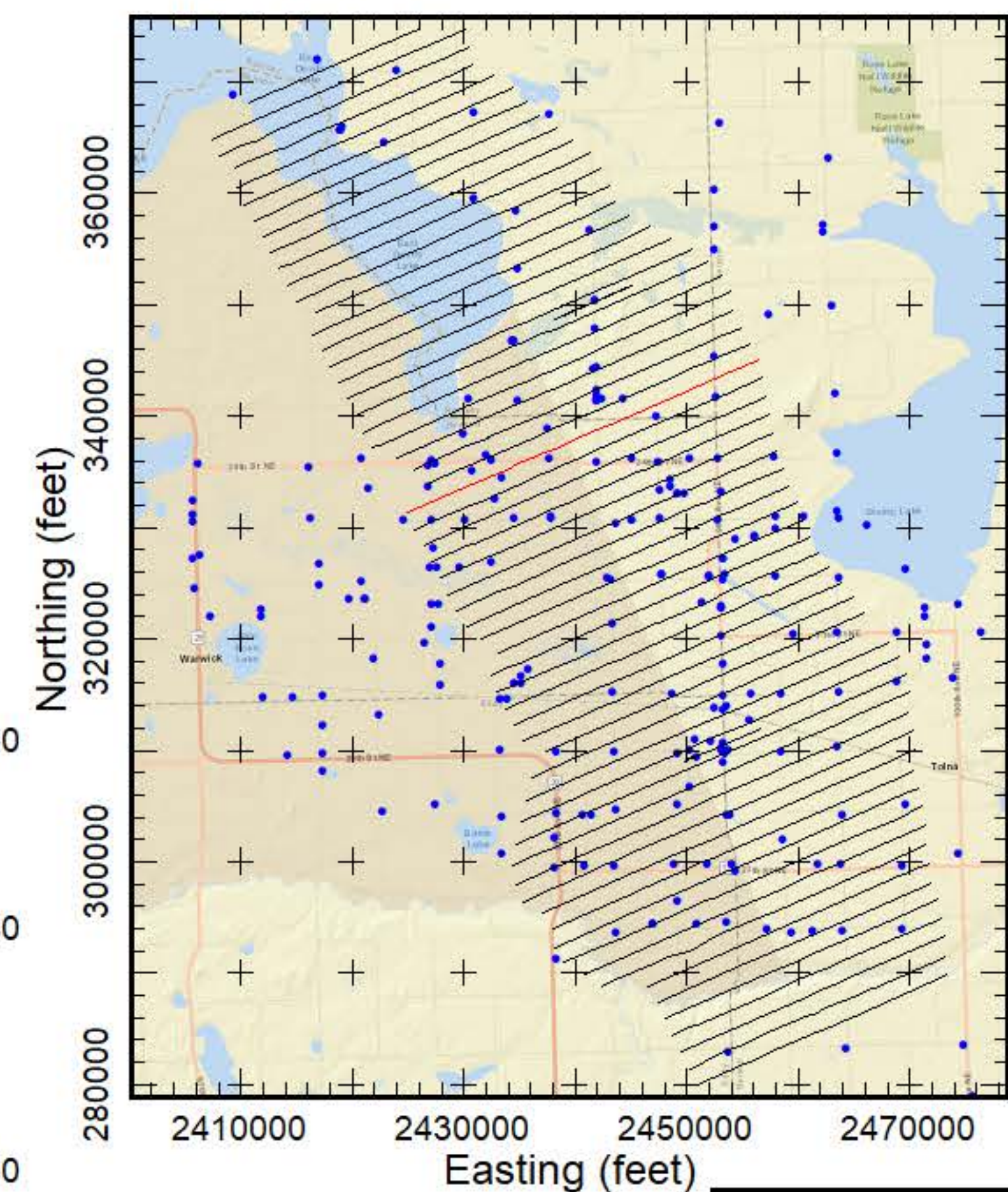




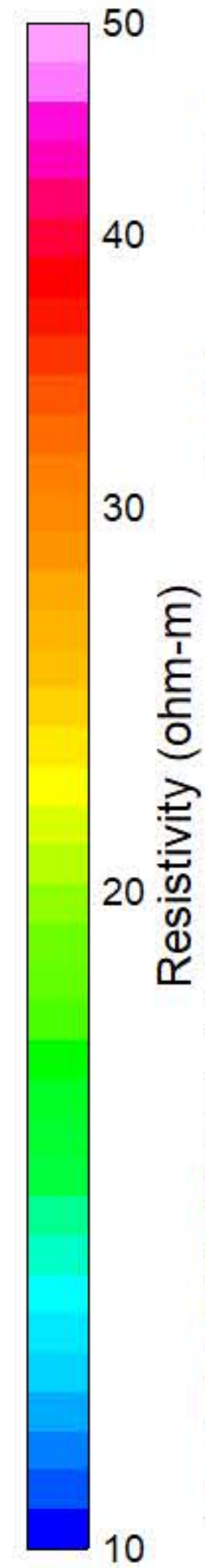
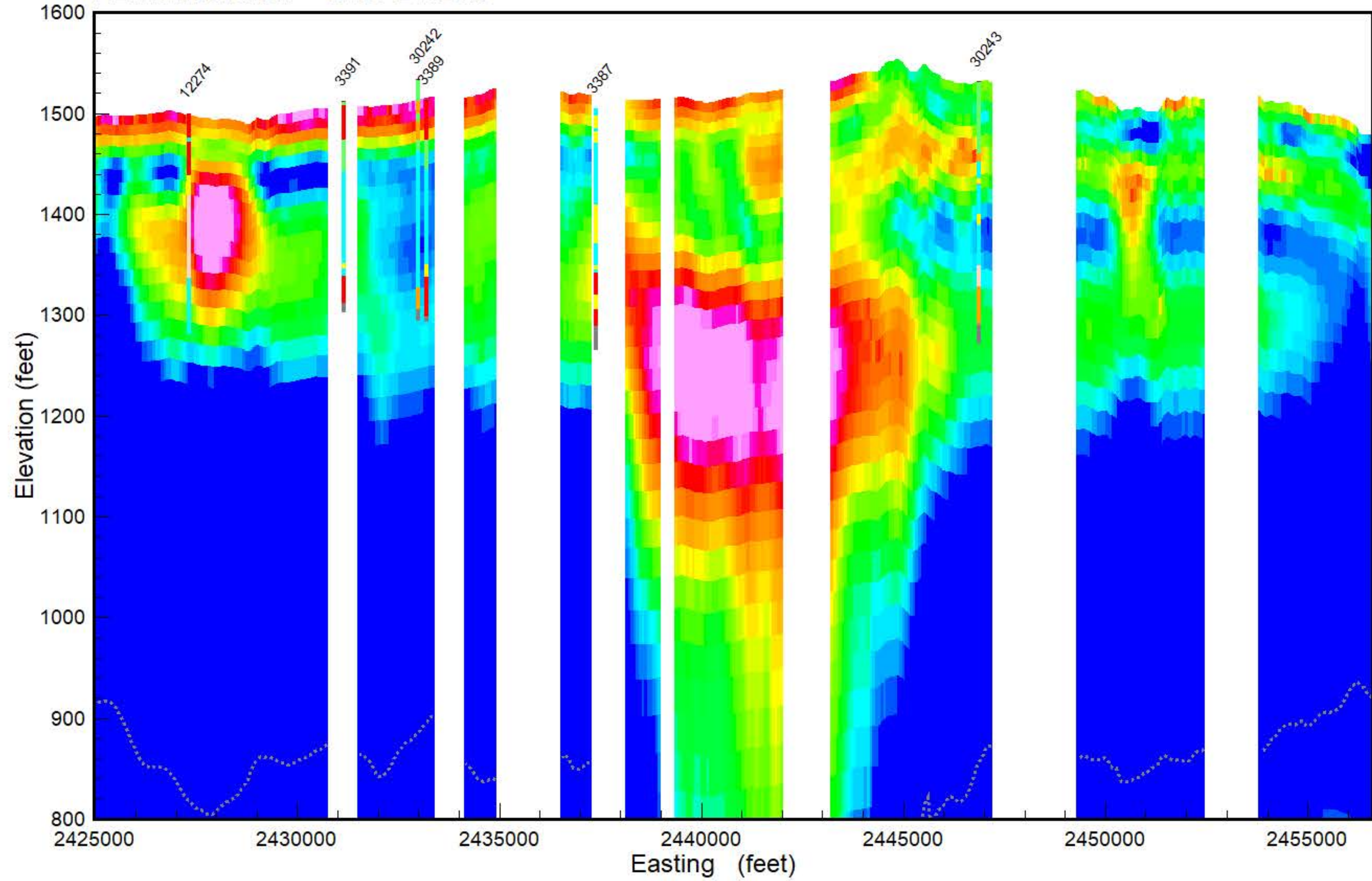
**Flight Path Line L10240**



**Flight Area Tolna**



**AEM Inversion Line L10240**



- PEAT
- LIGNITE
- COBBLES
- BOULDER
- ROCK
- PRECAMBRIAN
- WEATHERED GRANITE
- SANDSTONE
- LIMESTONE
- SILTSTONE
- CLAYSTONE
- SHALE
- BEDROCK
- GRAVEL
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- SAND
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- SILT
- CLAY
- TILL
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- TOPSOIL
- NOSAMPLE

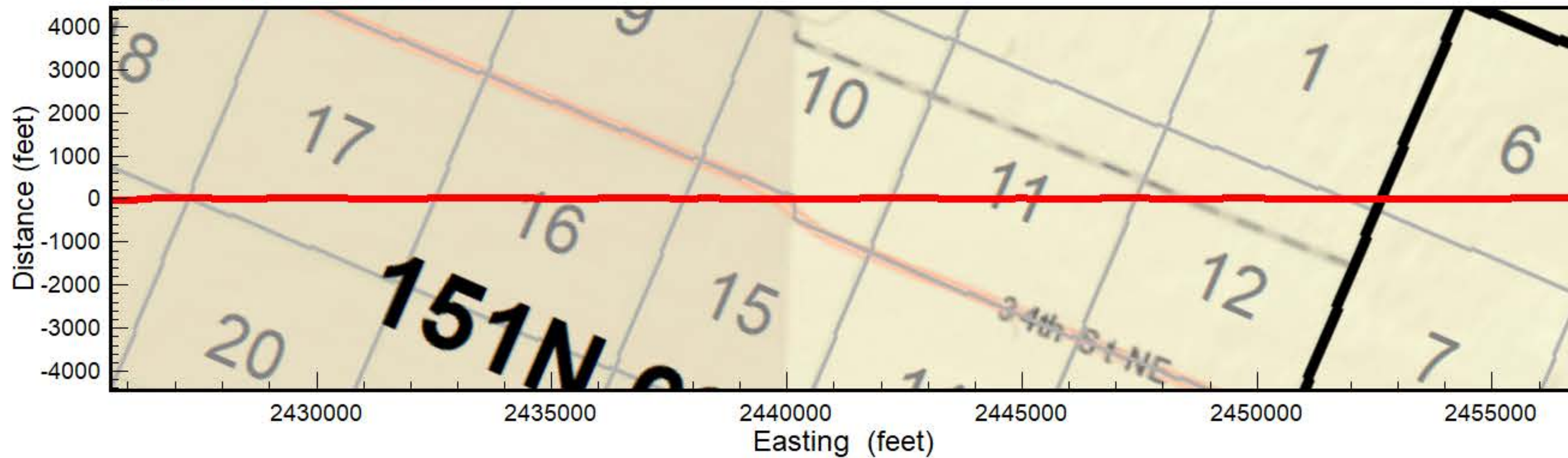


Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Tolna flight area from March 15-17, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 5.8.3. Boreholes are from the North Dakota State Water Commission Map service download October 2018 and are plotted within 1/4 mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.



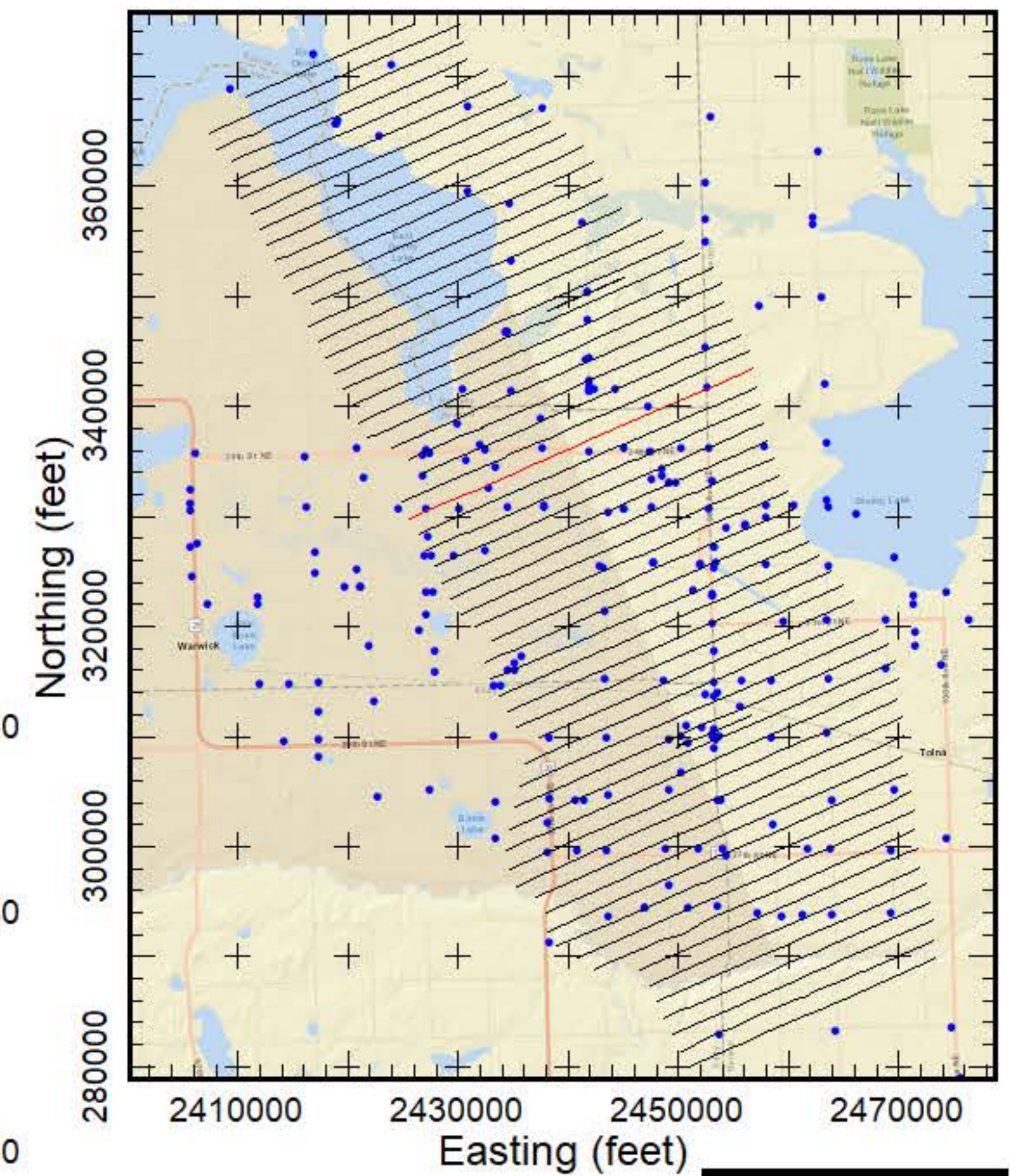


**Flight Path Line L10250**

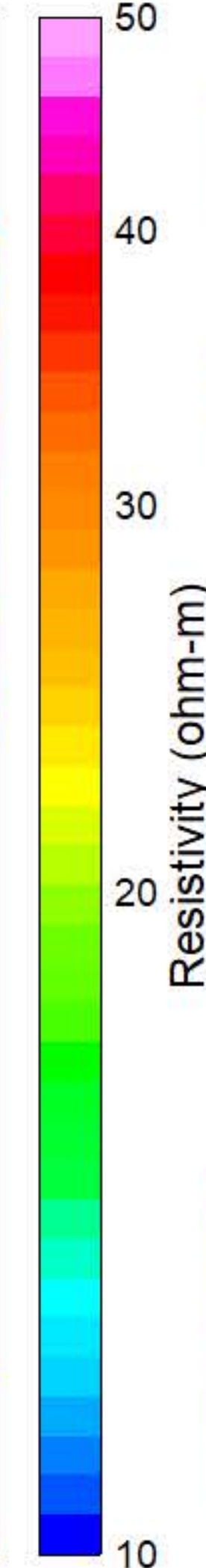
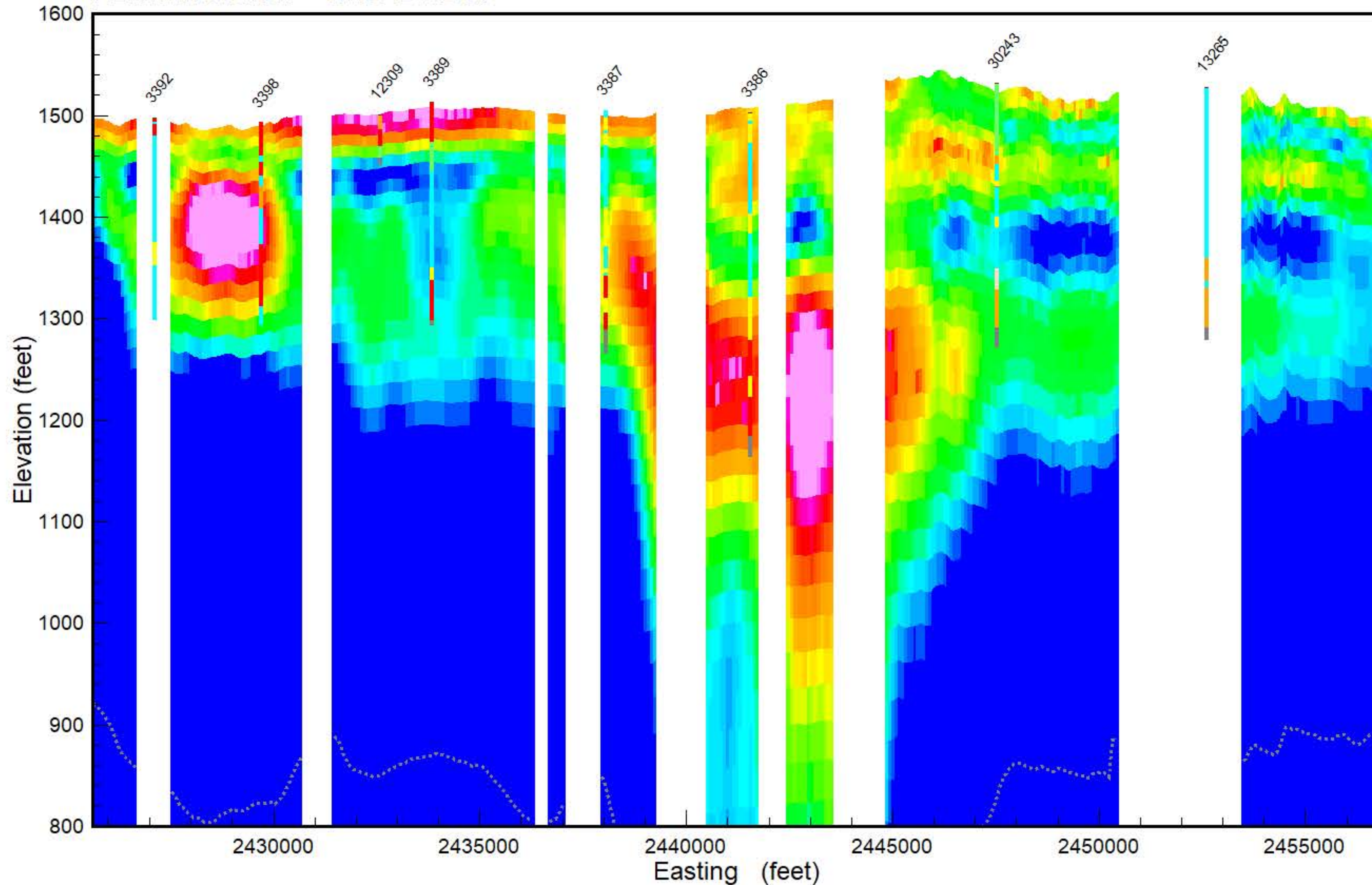


**NORTH DAKOTA STATE WATER COMMISSION**  
 900 EAST BOULEVARD AVE, DEPT. 770  
 BISMARCK, ND 58505-0850

**Flight Area Tolna**



**AEM Inversion Line L10250**



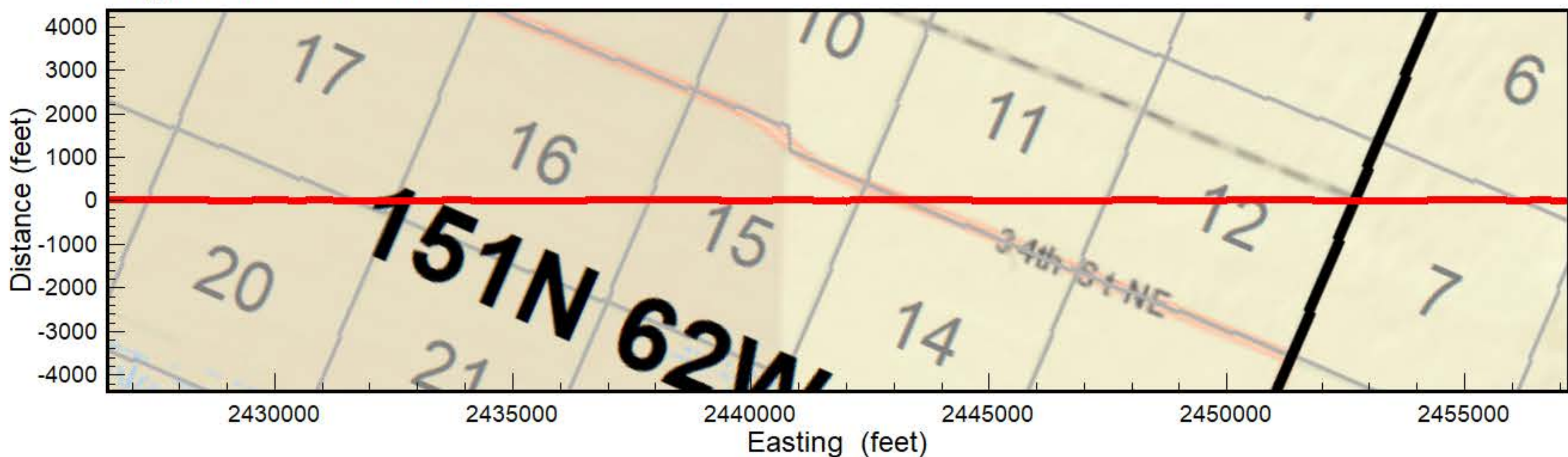
**GEOTECH**

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Tolna flight area from March 15-17, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 5.8.3. Boreholes are from the North Dakota State Water Commission Map service download October 2018 and are plotted within 1/4 mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua AGF Frameworks, LLC.

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- BOULDER
- ROCK
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- SANDSTONE
- LIMESTONE
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- SHALE
- BEDROCK
- GRAVEL
- SAND & GRAVEL
- SAND
- INTERBEDDED
- SILT
- CLAY
- TILL
- FILL
- TOPSOIL
- NOSAMPLE

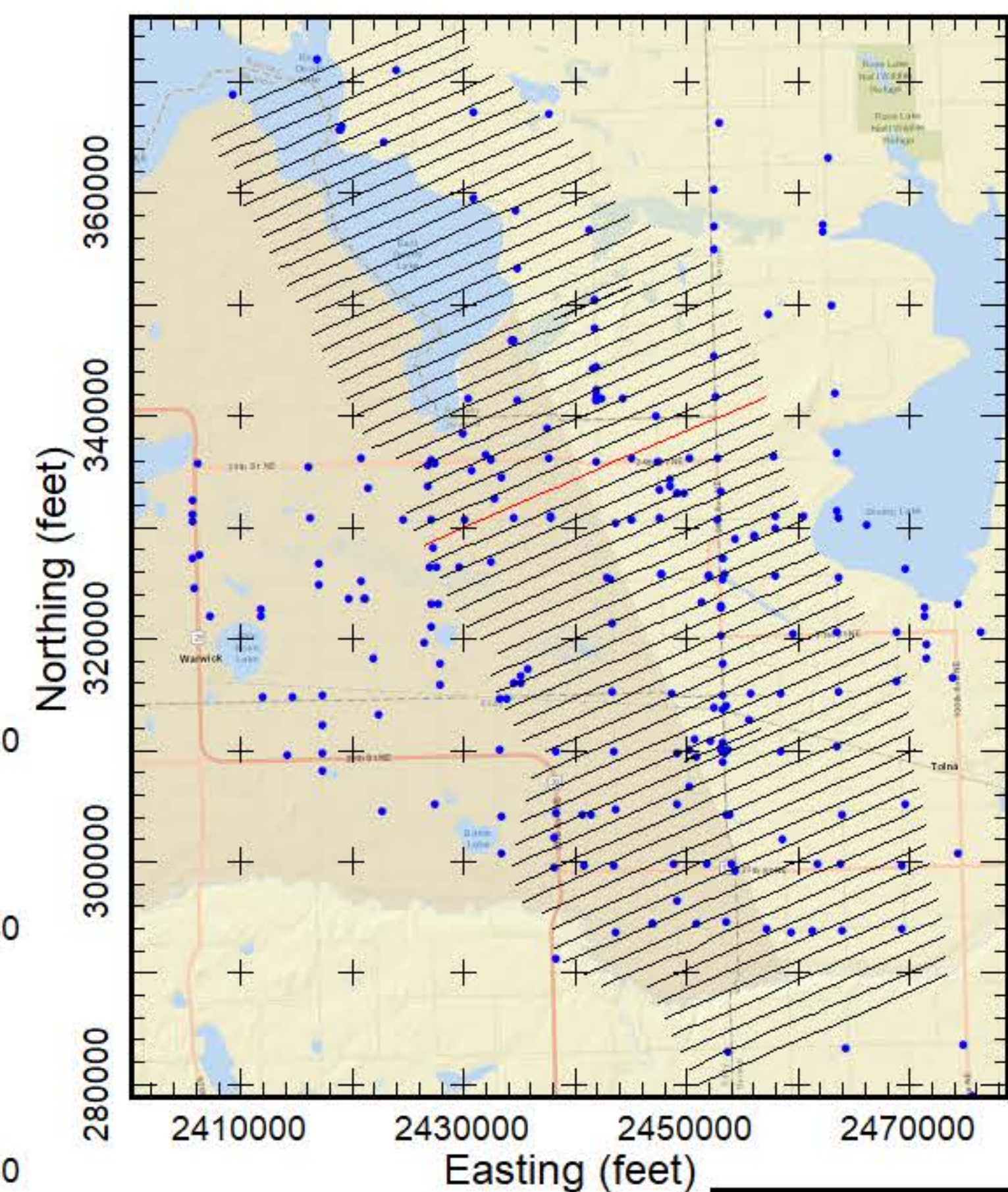


**Flight Path Line L10260**

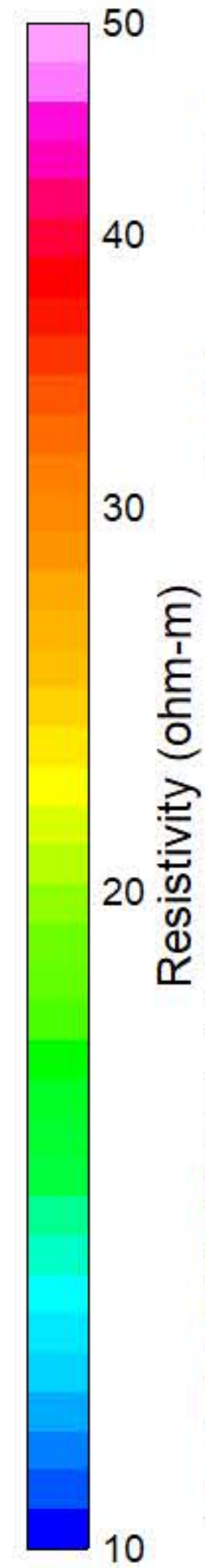
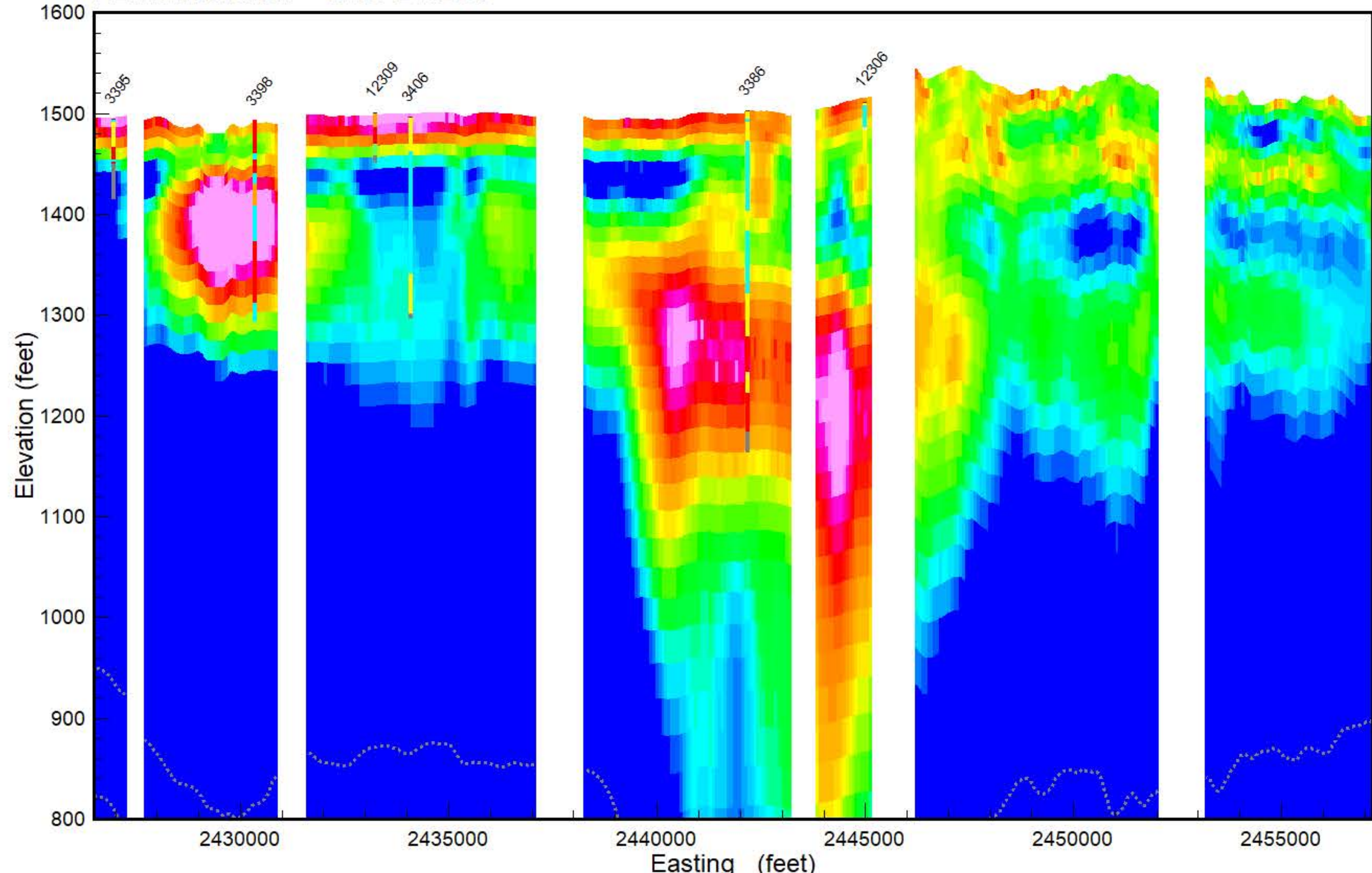


**NORTH DAKOTA STATE WATER COMMISSION**  
 900 EAST BOULEVARD AVE, DEPT. 770  
 BISMARCK, ND 58505-0850

**Flight Area Tolna**



**AEM Inversion Line L10260**



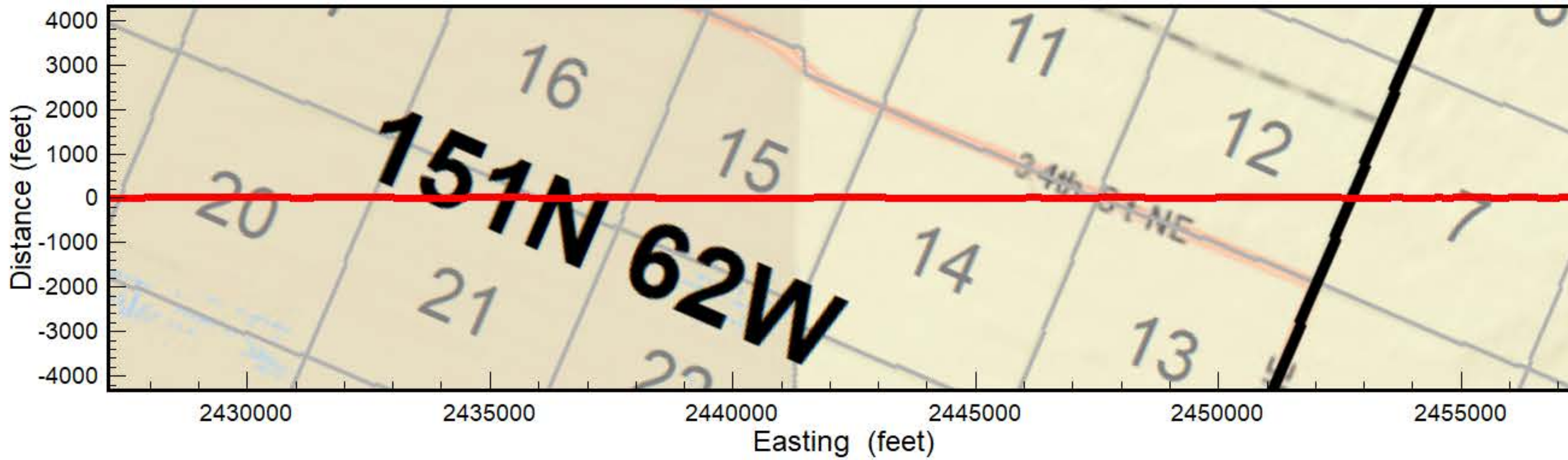
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- COBBLES
- BOULDER
- ROCK
- PRECAMBRIAN
- WEATHERED GRANITE
- SANDSTONE
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- SAND & GRAVEL
- SAND
- INTERBEDDED
- SILT
- CLAY
- TILL
- FILL
- TOPSOIL
- NOSAMPLE

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Tolna flight area from March 15-17, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 5.8.3. Boreholes are from the North Dakota State Water Commission Map service download October 2018 and are plotted within 1/4 mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

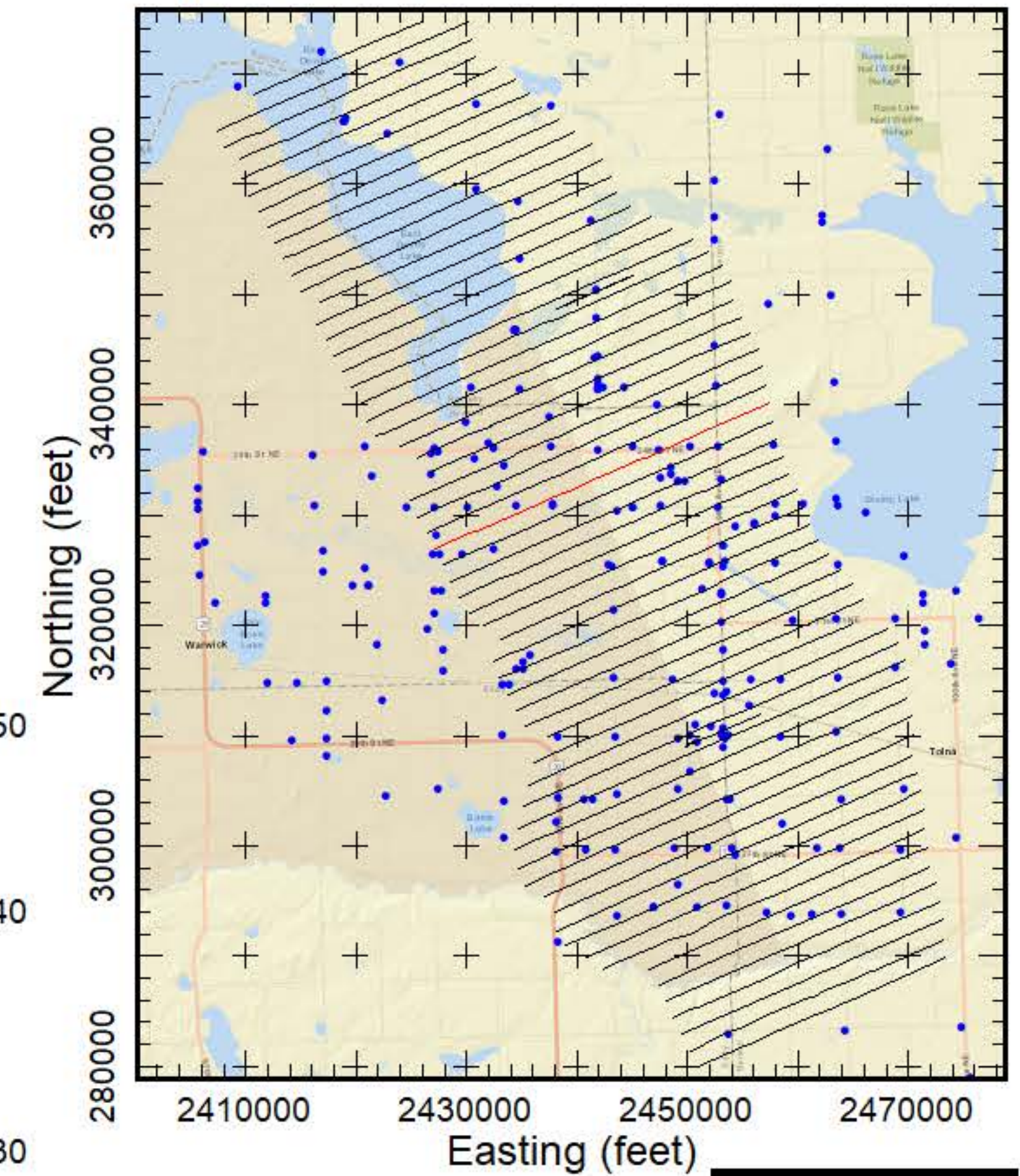




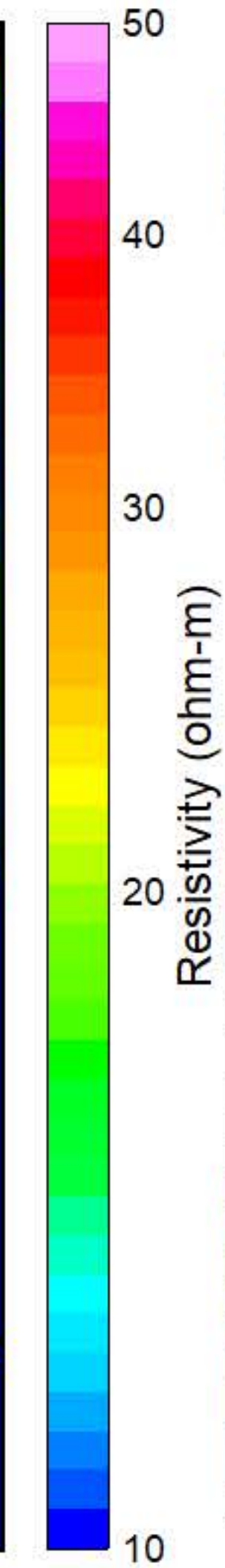
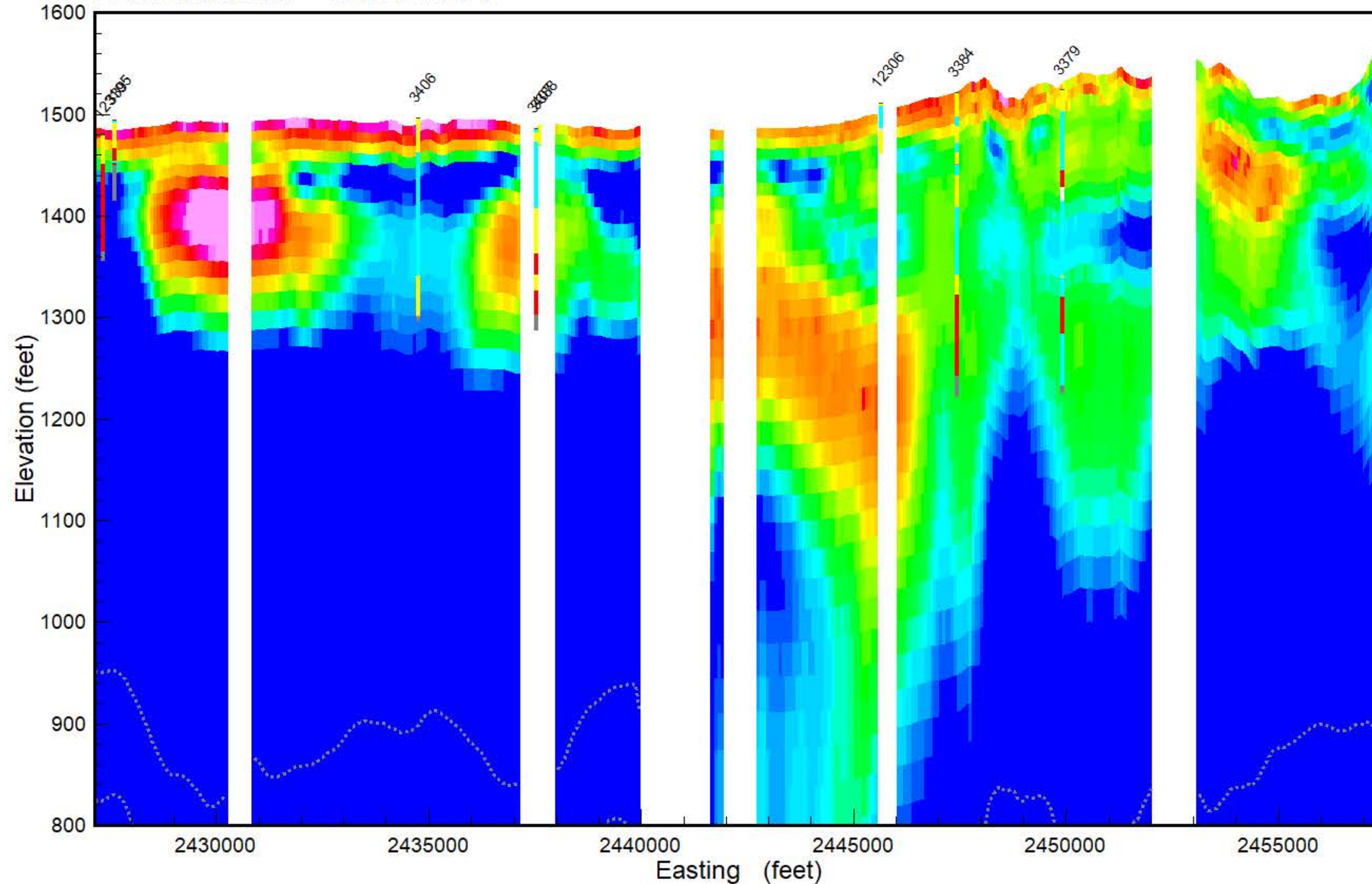
**Flight Path Line L10270**



**Flight Area Tolna**



**AEM Inversion Line L10270**



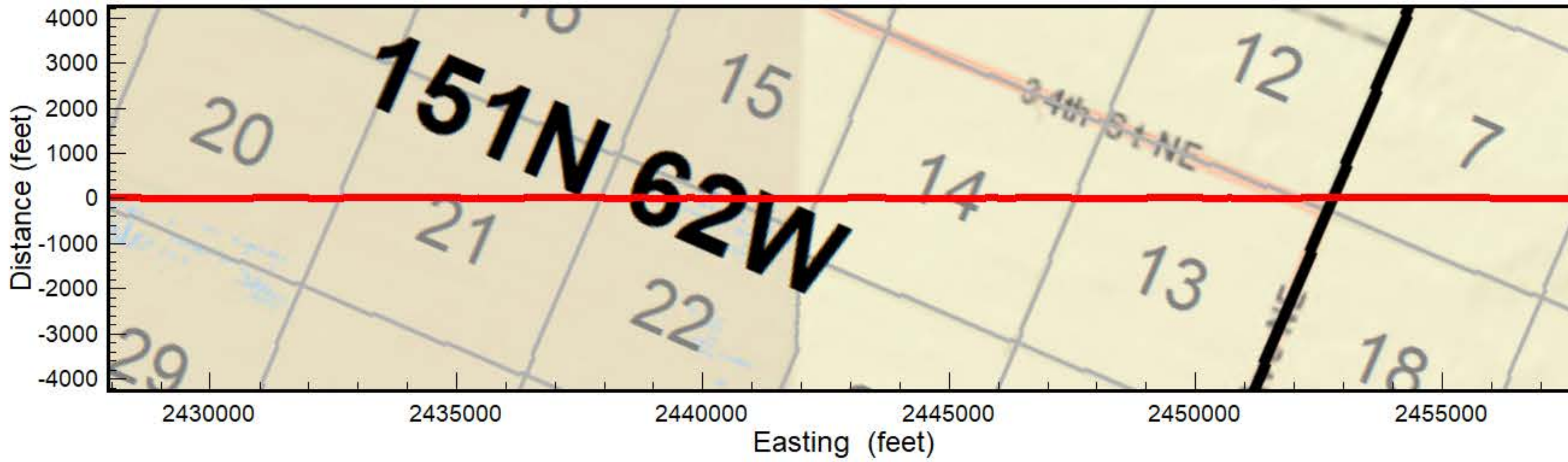
- PEAT
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- COBBLES
- BOULDER
- ROCK
- PRECAMBRIAN
- WEATHERED GRANITE
- SANDSTONE
- LIMESTONE
- SILTSTONE
- CLAYSTONE
- SHALE
- BEDROCK
- GRAVEL
- SAND & GRAVEL
- SAND
- INTERBEDDED
- SILT
- CLAY
- TILL
- FILL
- TOPSOIL
- NOSAMPLE

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Tolna flight area from March 15-17, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 5.8.3. Boreholes are from the North Dakota State Water Commission Map service download October 2018 and are plotted within 1/4 mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

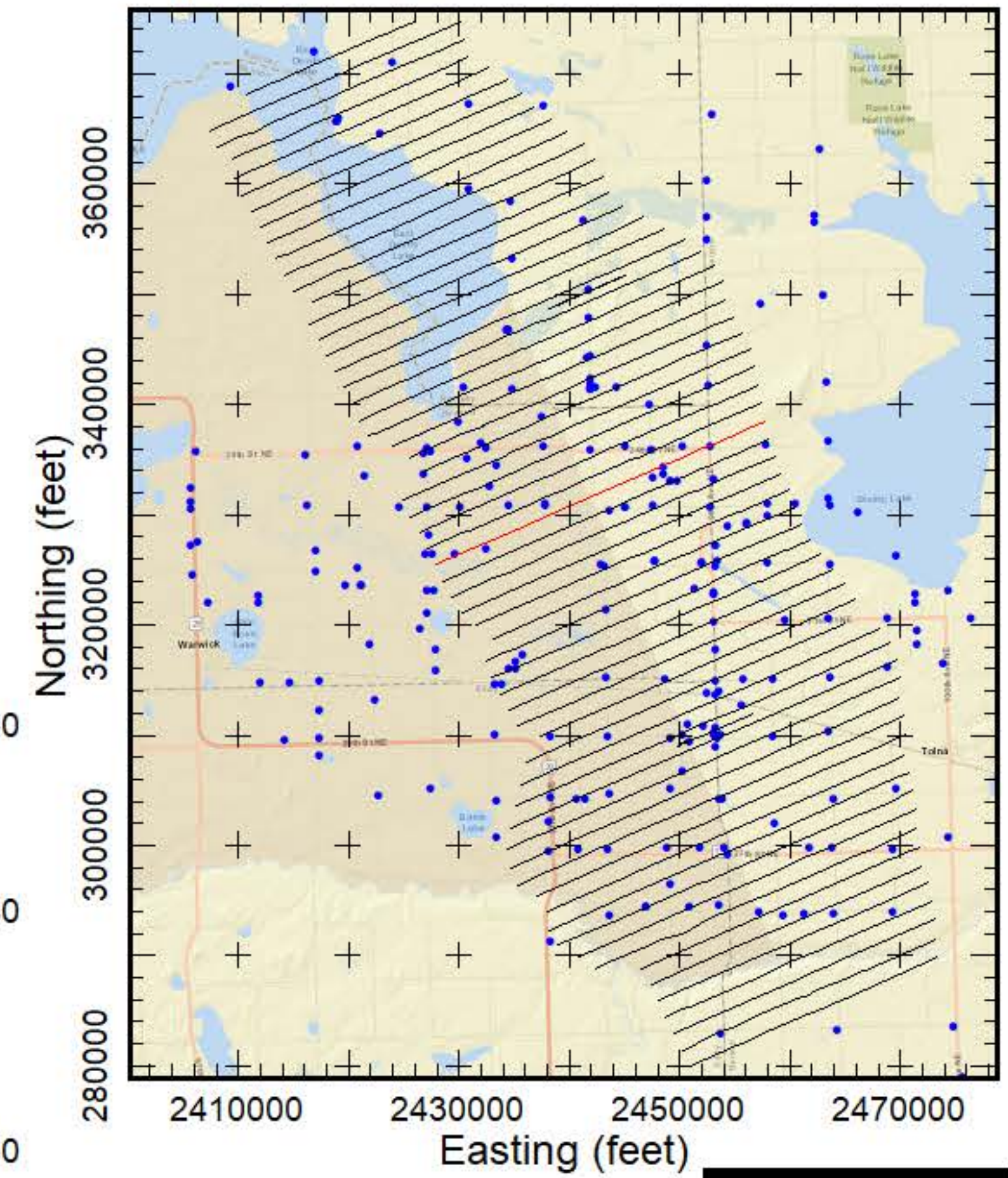




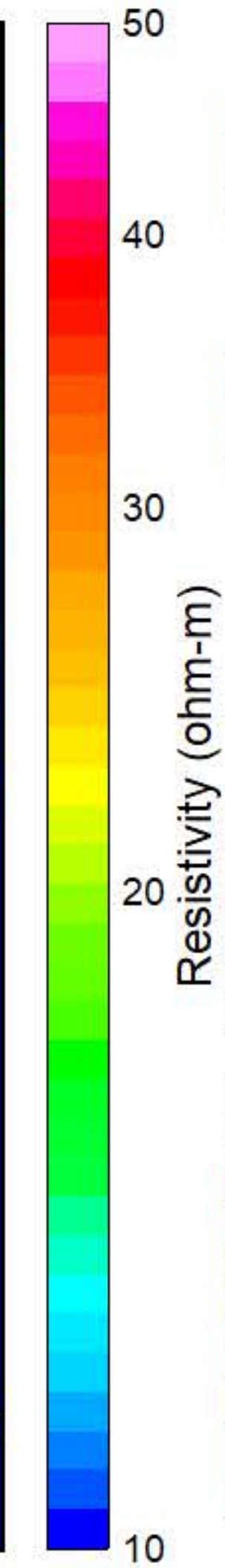
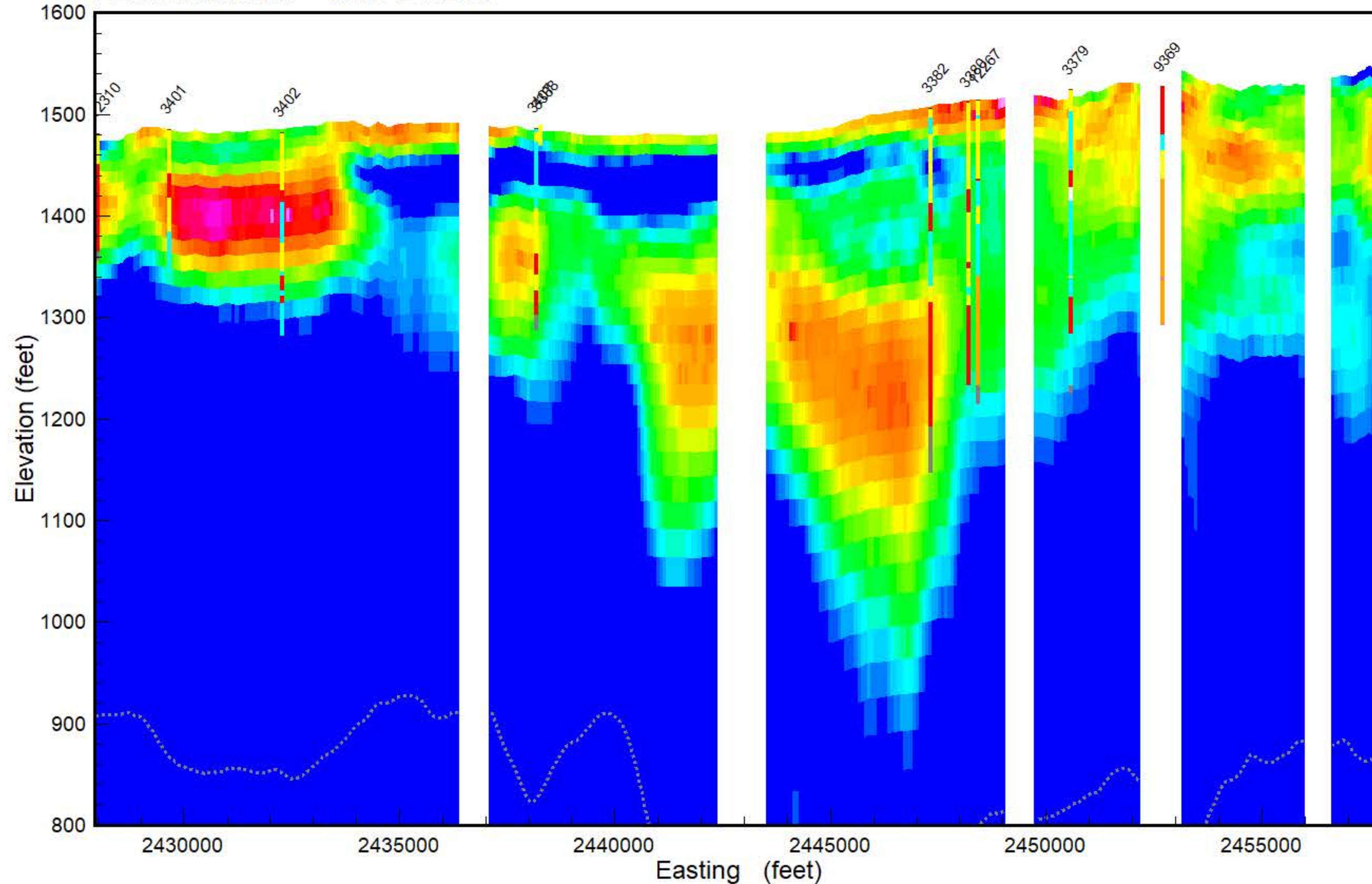
**Flight Path Line L10280**



**Flight Area Tolna**



**AEM Inversion Line L10280**



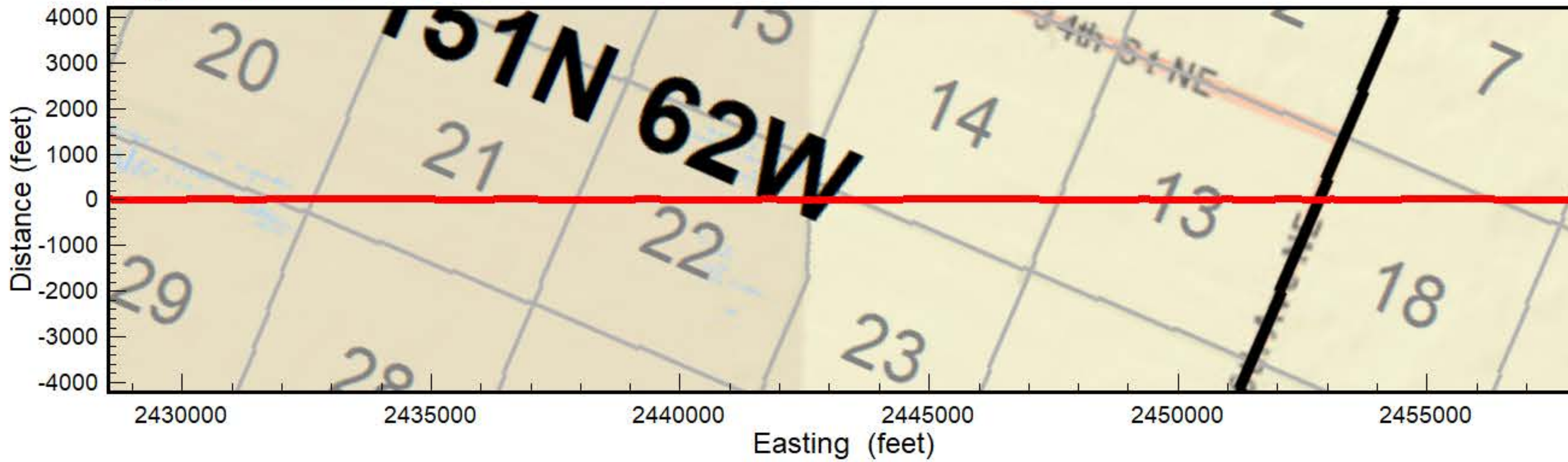
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- LIGNITE
- COBBLES
- BOULDER
- ROCK
- PRECAMBRIAN
- WEATHERED GRANITE
- SANDSTONE
- LIMESTONE
- SILTSTONE
- CLAYSTONE
- SHALE
- BEDROCK
- GRAVEL
- SAND & GRAVEL
- SAND
- INTERBEDDED
- SILT
- CLAY
- TILL
- FILL
- TOPSOIL
- NOSAMPLE

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Tolna flight area from March 15-17, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 5.8.3. Boreholes are from the North Dakota State Water Commission Map service download October 2018 and are plotted within 1/4 mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua AGF Frameworks, LLC.

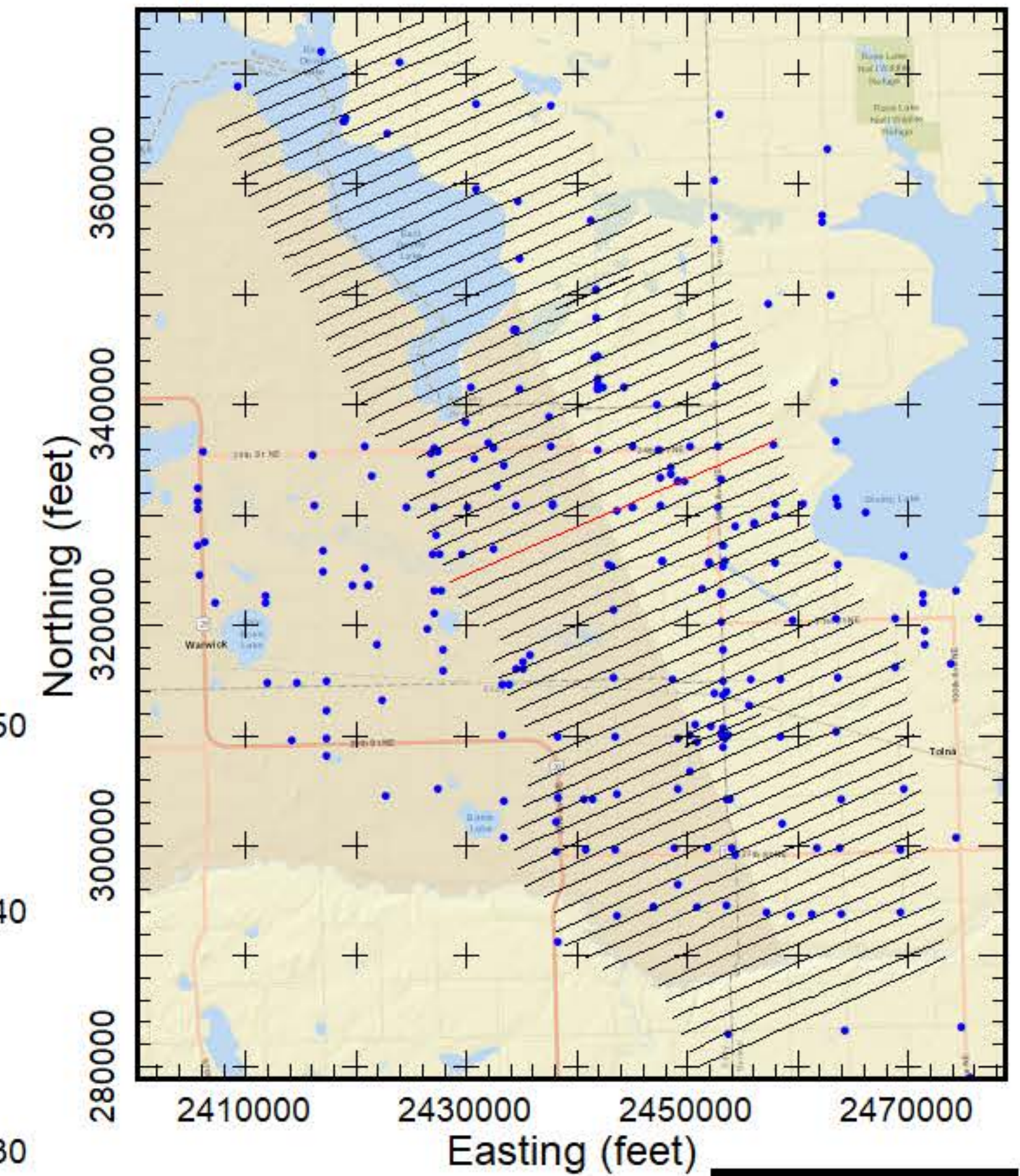




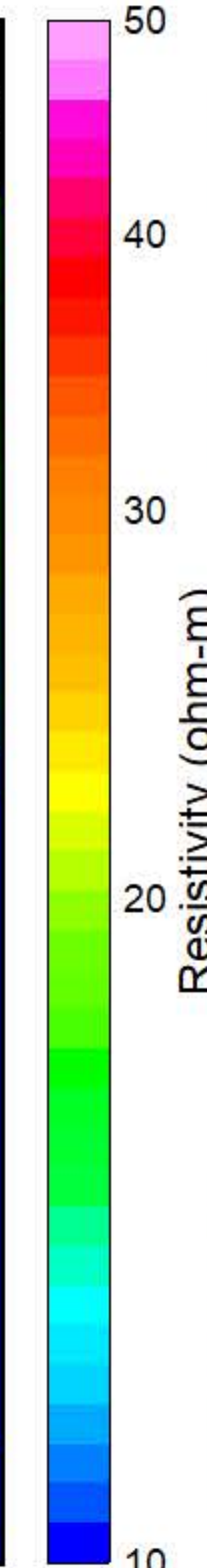
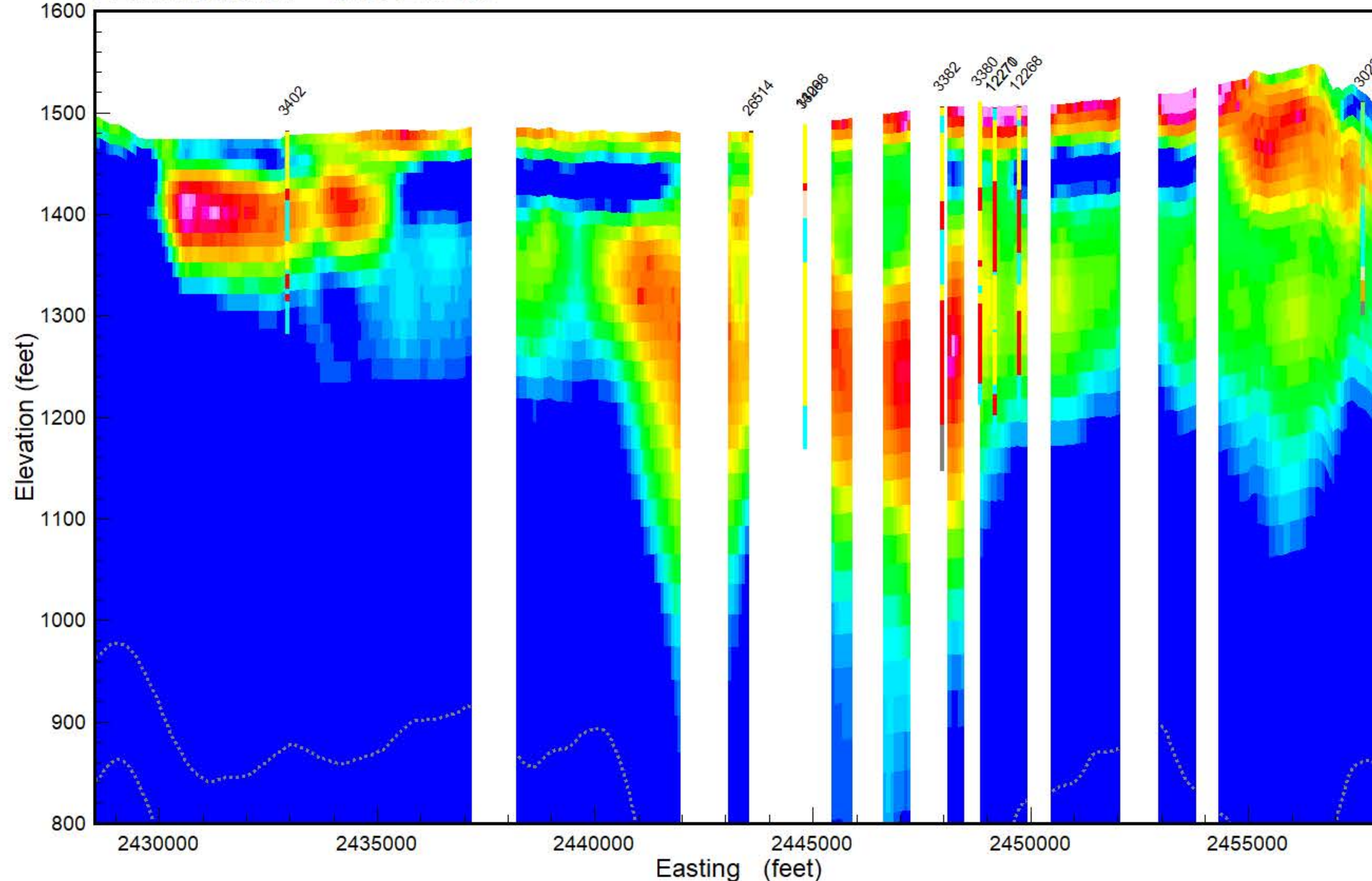
**Flight Path Line L10290**



**Flight Area Tolna**



**AEM Inversion Line L10290**

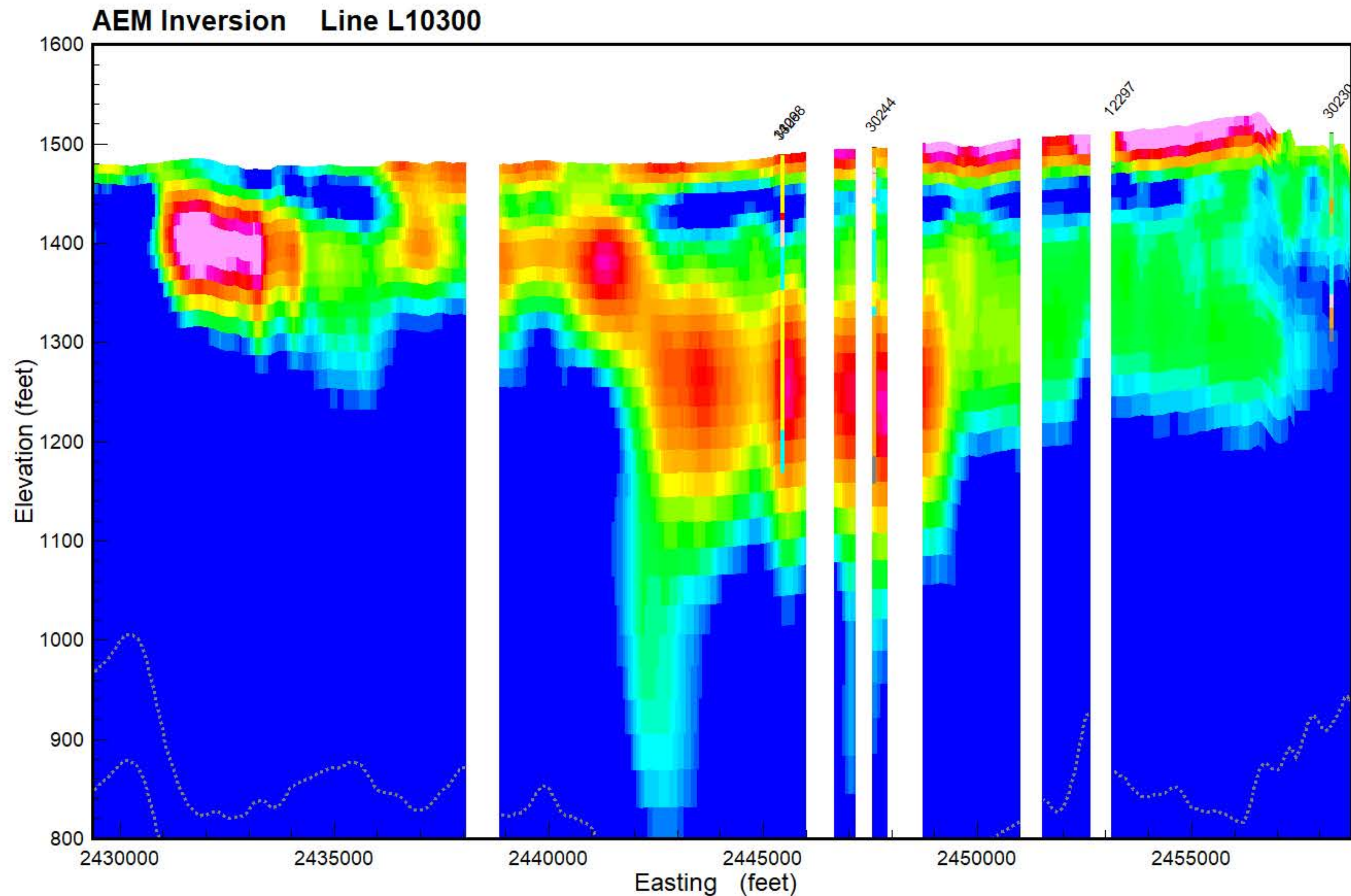
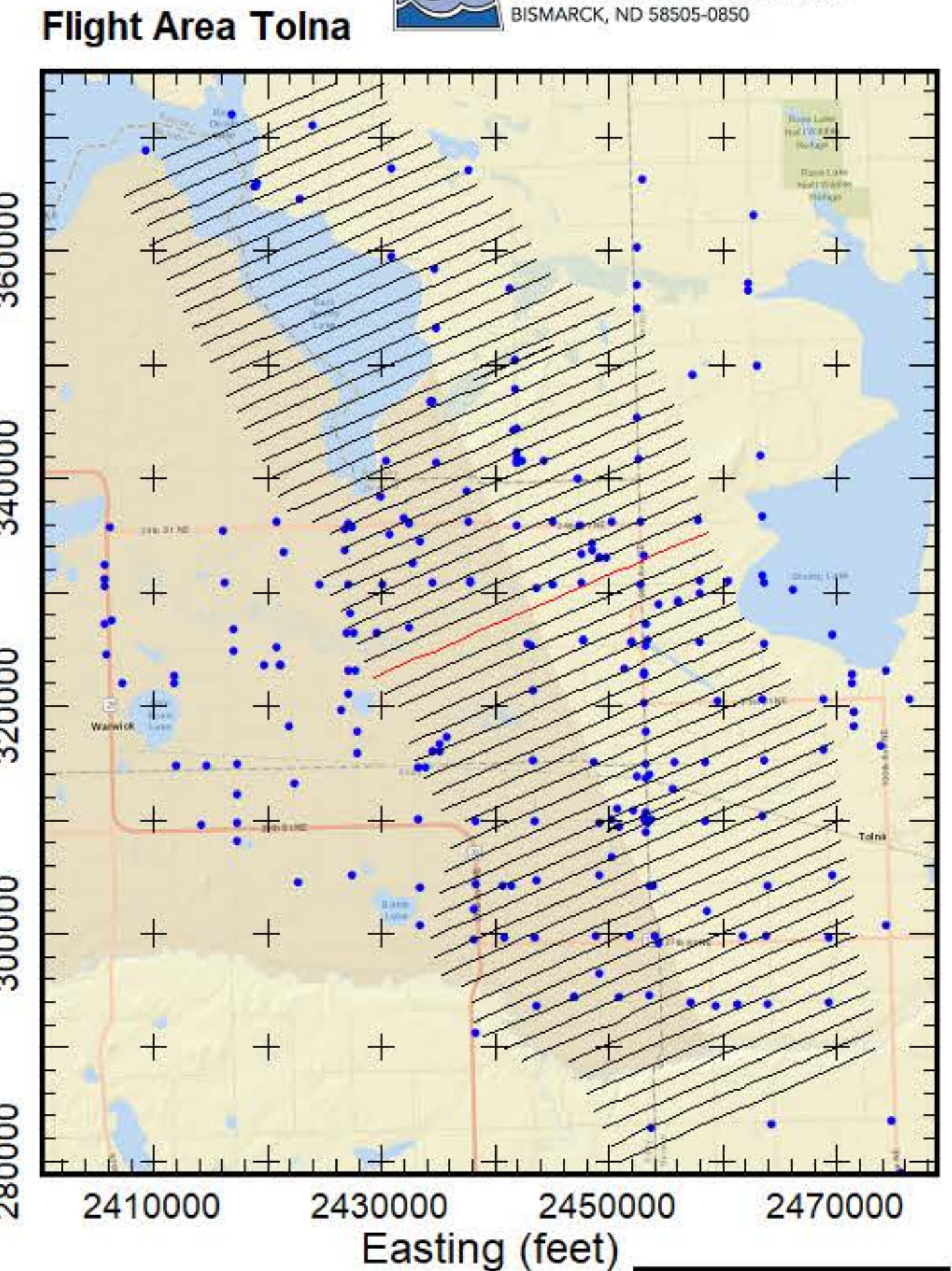
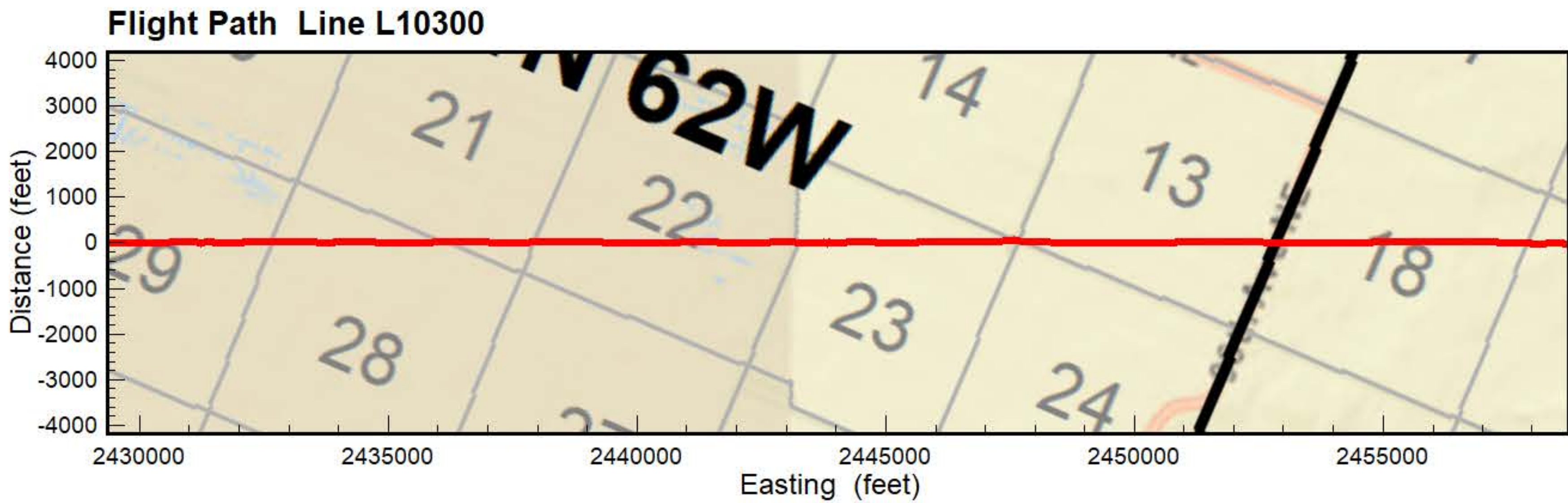


- PEAT
- LIGNITE
- COBBLES
- BOULDER
- ROCK
- PRECAMBRIAN
- WEATHERED GRANITE
- SANDSTONE
- LIMESTONE
- SILTSTONE
- CLAYSTONE
- SHALE
- BEDROCK
- GRAVEL
- SAND & GRAVEL
- SAND
- INTERBEDDED
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Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Tolna flight area from March 15-17, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 5.8.3. Boreholes are from the North Dakota State Water Commission Map service download October 2018 and are plotted within 1/4 mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.





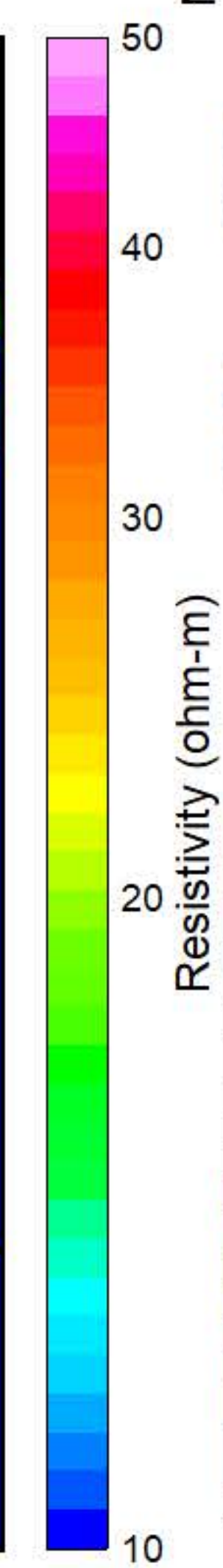
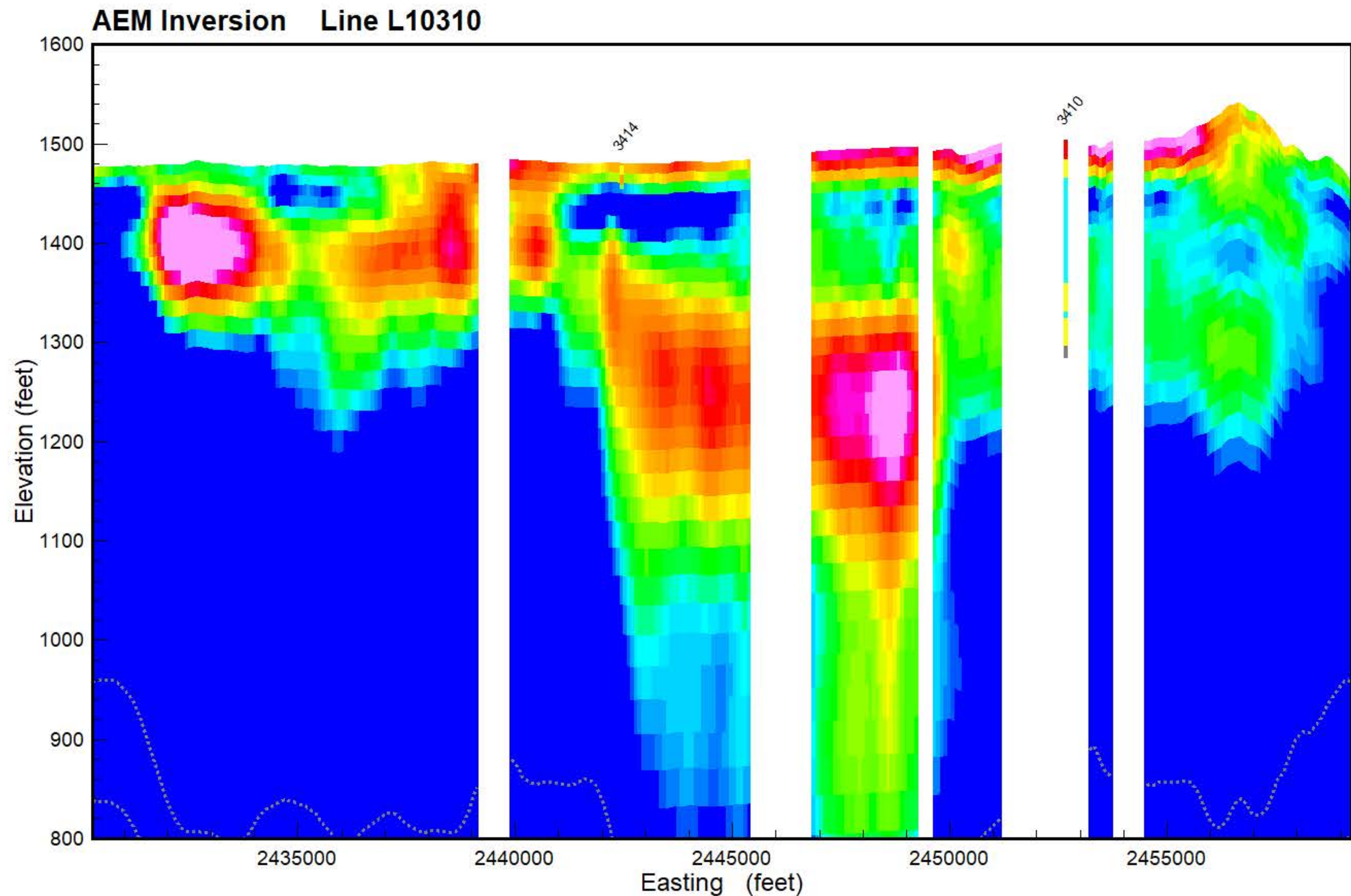
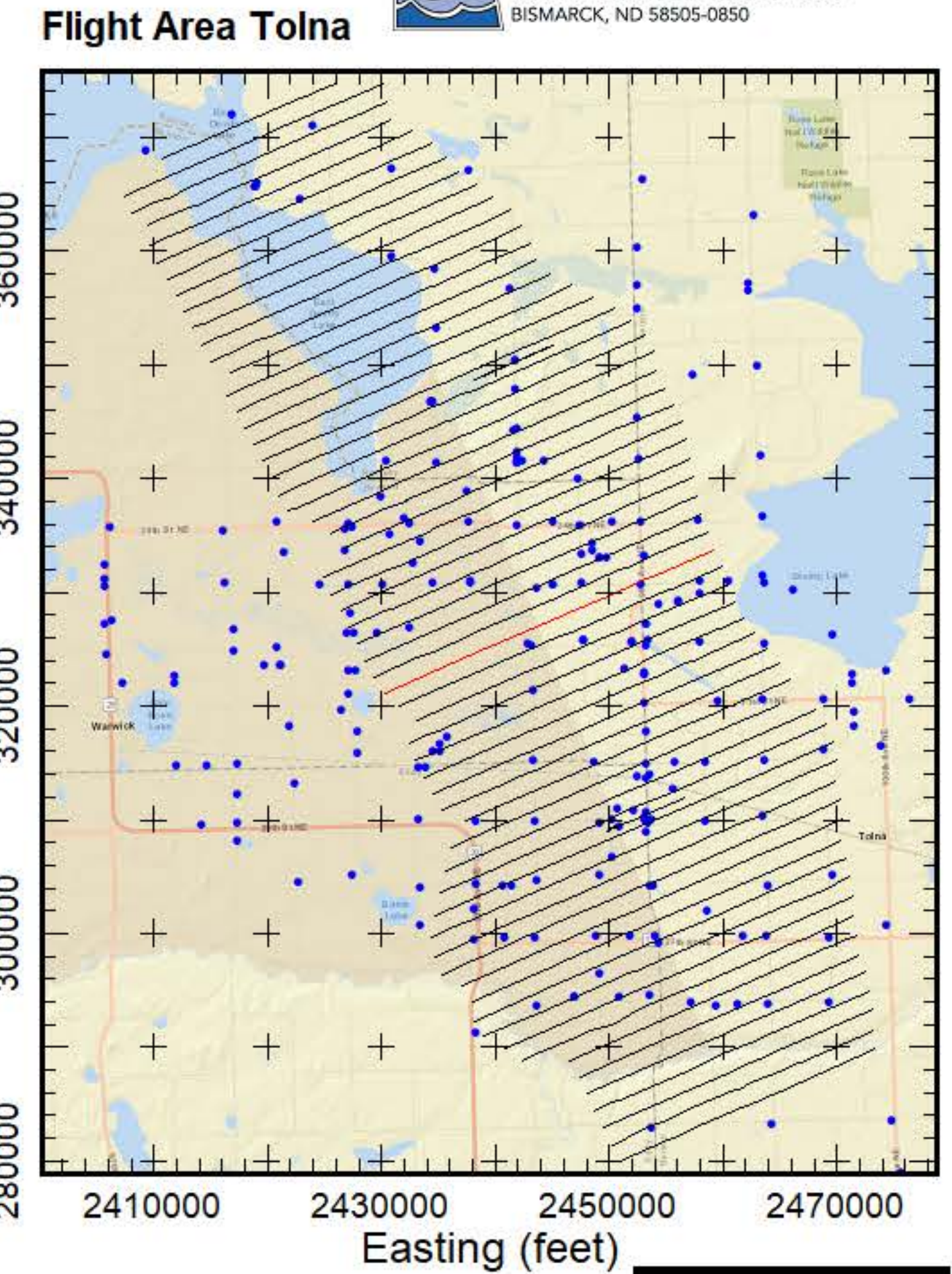
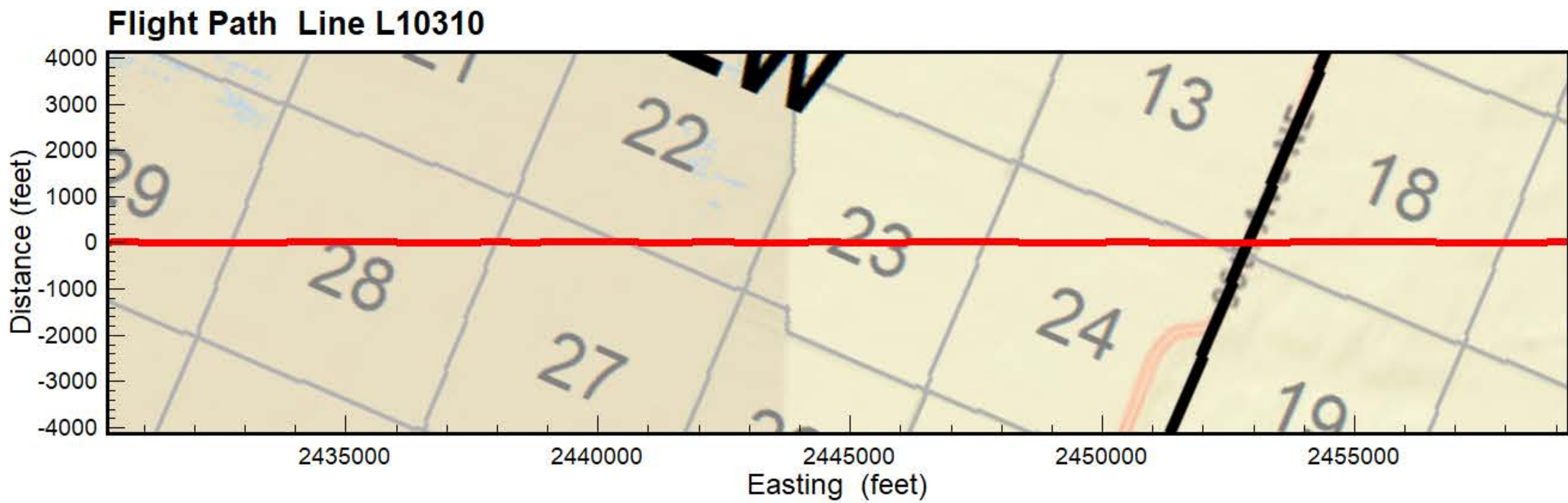


**GEOTECH**

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**AGF**  
 Aqua Geo Frameworks



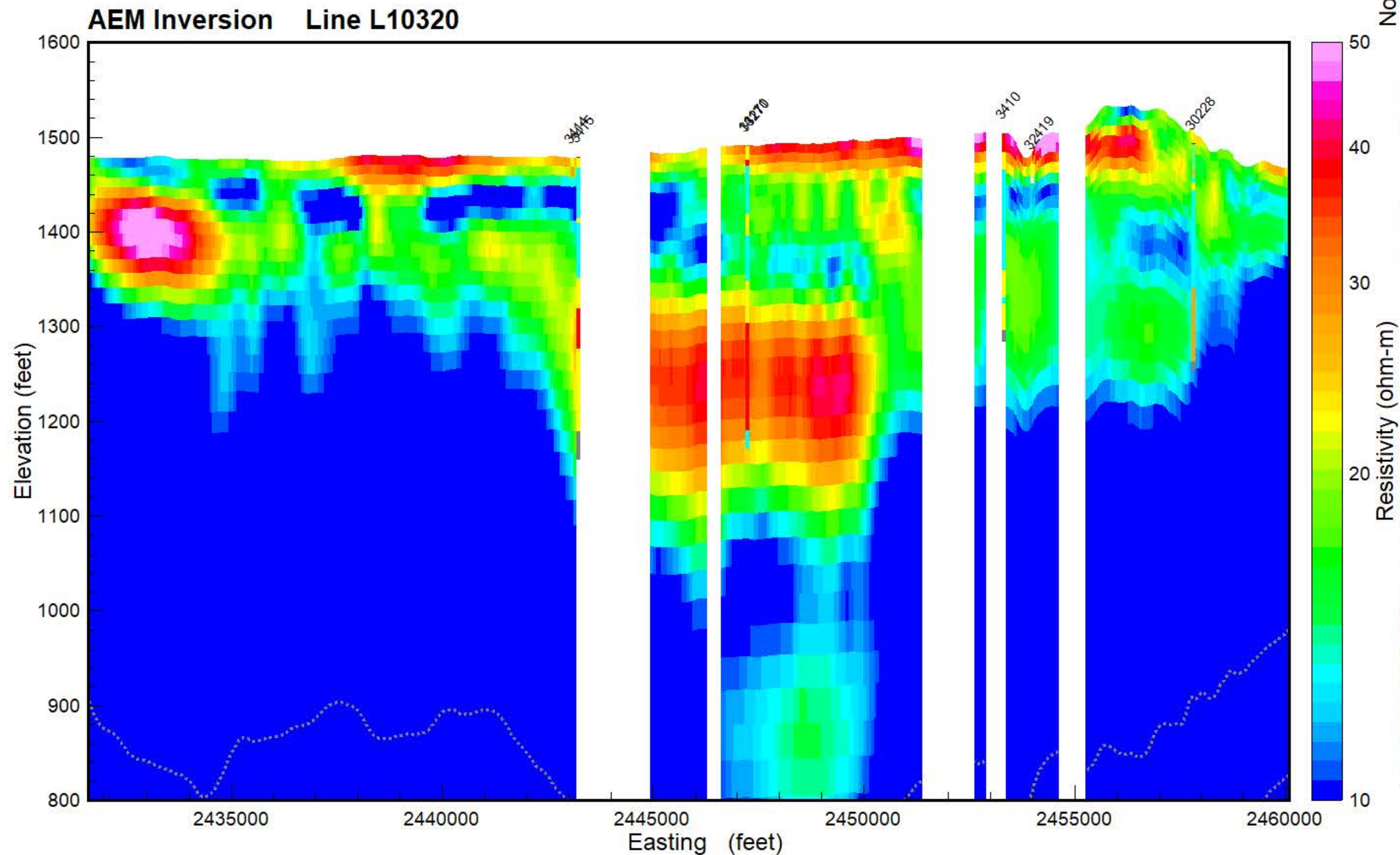
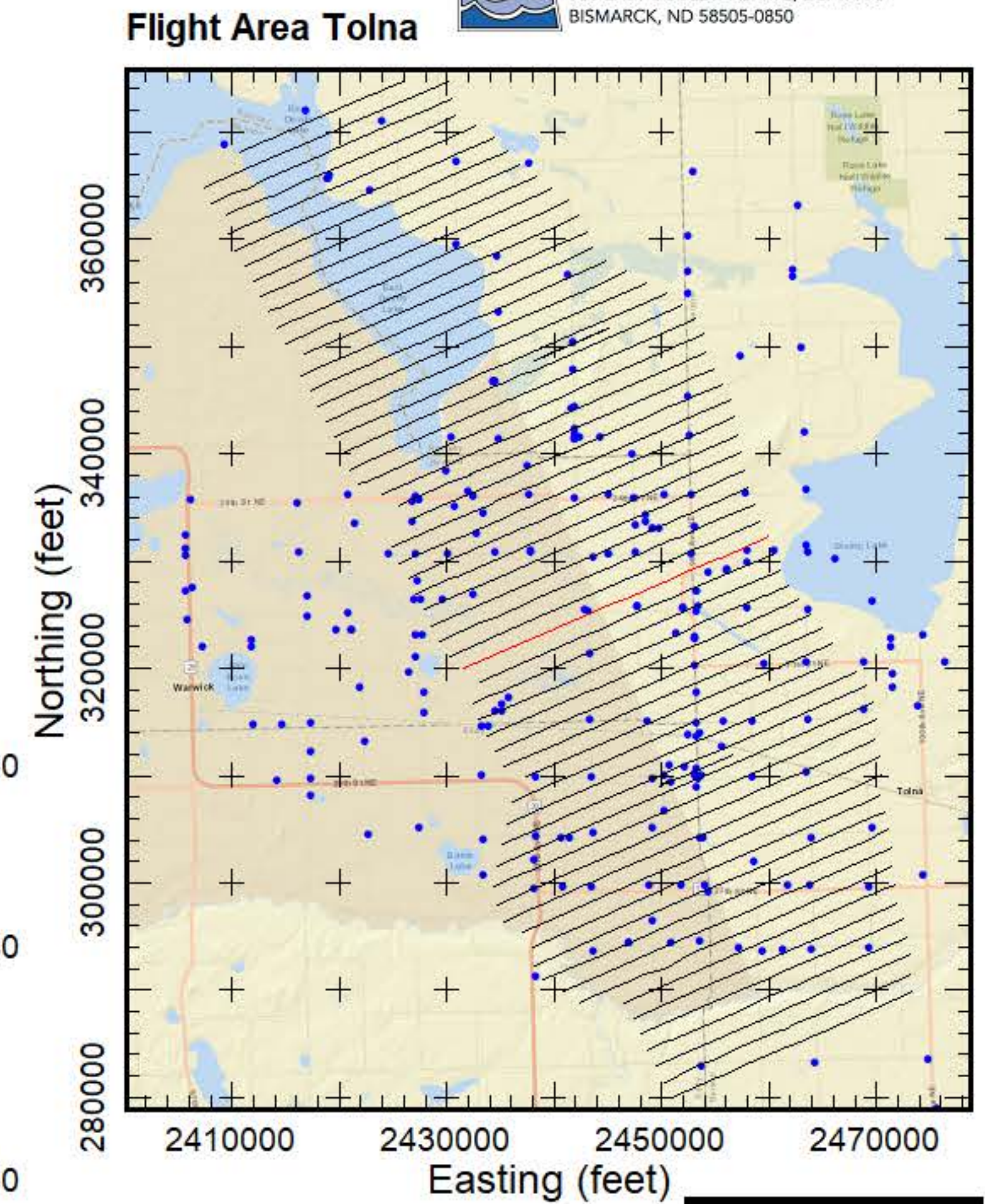
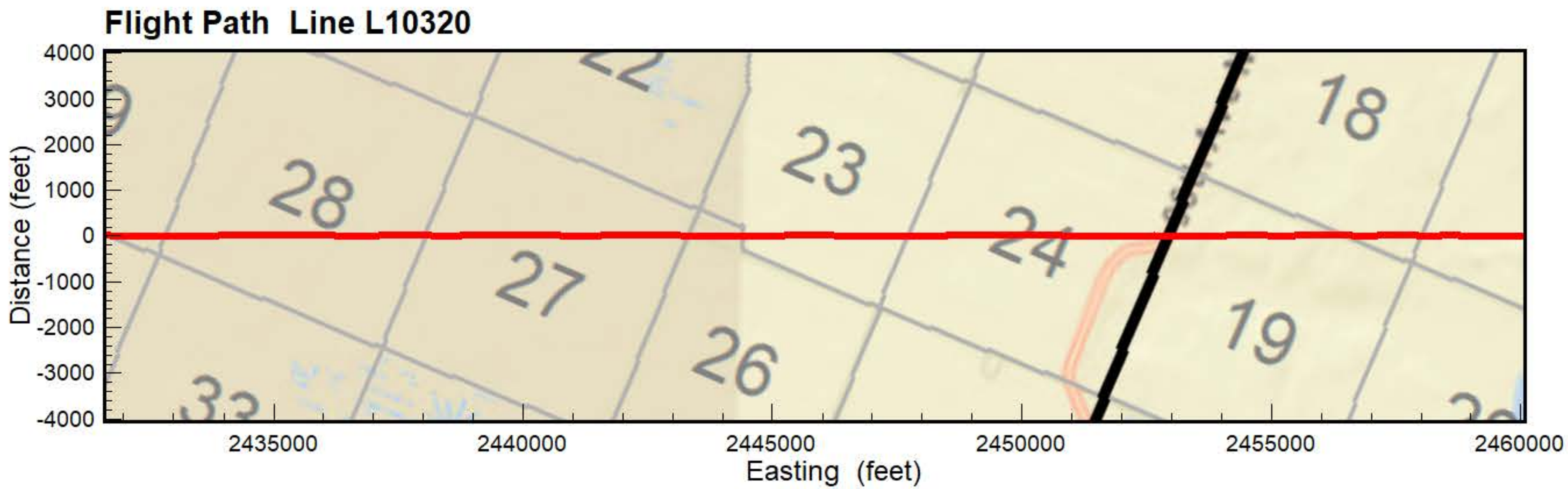


- PEAT
- LIGNITE
- COBBLES
- BOULDER
- ROCK
- PRECAMBRIAN
- WEATHERED GRANITE
- SANDSTONE
- LIMESTONE
- SILTSTONE
- CLAYSTONE
- SHALE
- BEDROCK
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- SAND & GRAVEL
- SAND
- INTERBEDDED
- SILT
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Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Tolna flight area from March 15-17, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 5.8.3. Boreholes are from the North Dakota State Water Commission Map service download October 2018 and are plotted within 1/4 mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua AGF Frameworks, LLC.







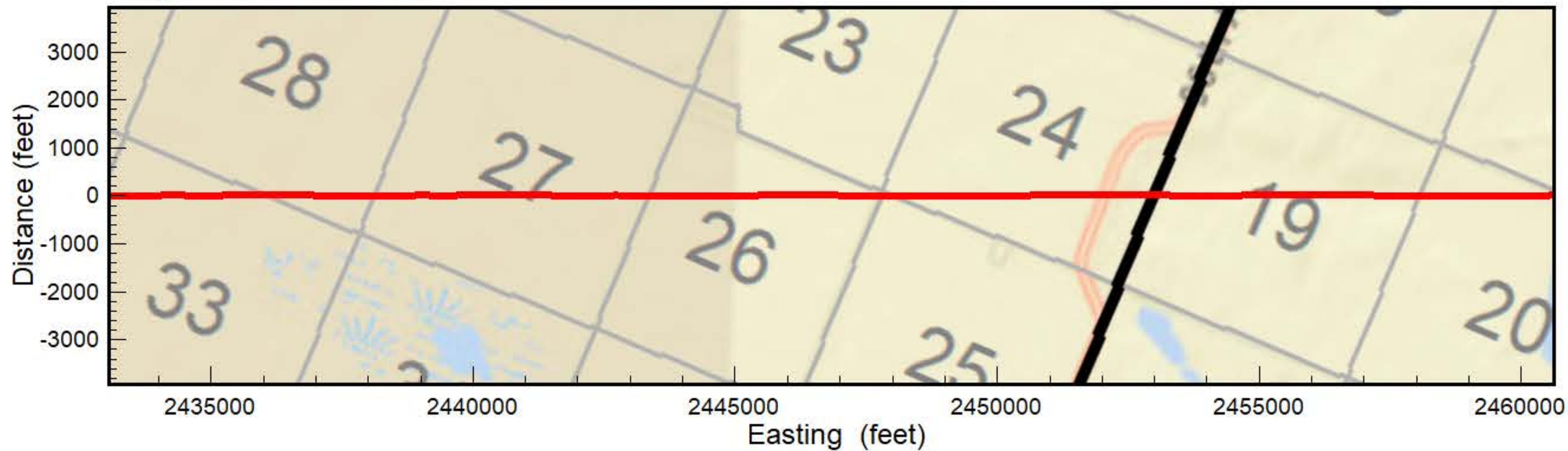
**GEOTECH**

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Tolna flight area from March 15-17, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 5.8.3. Boreholes are from the North Dakota State Water Commission Map service download October 2018 and are plotted within 1/4 mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua AGF Frameworks, LLC.

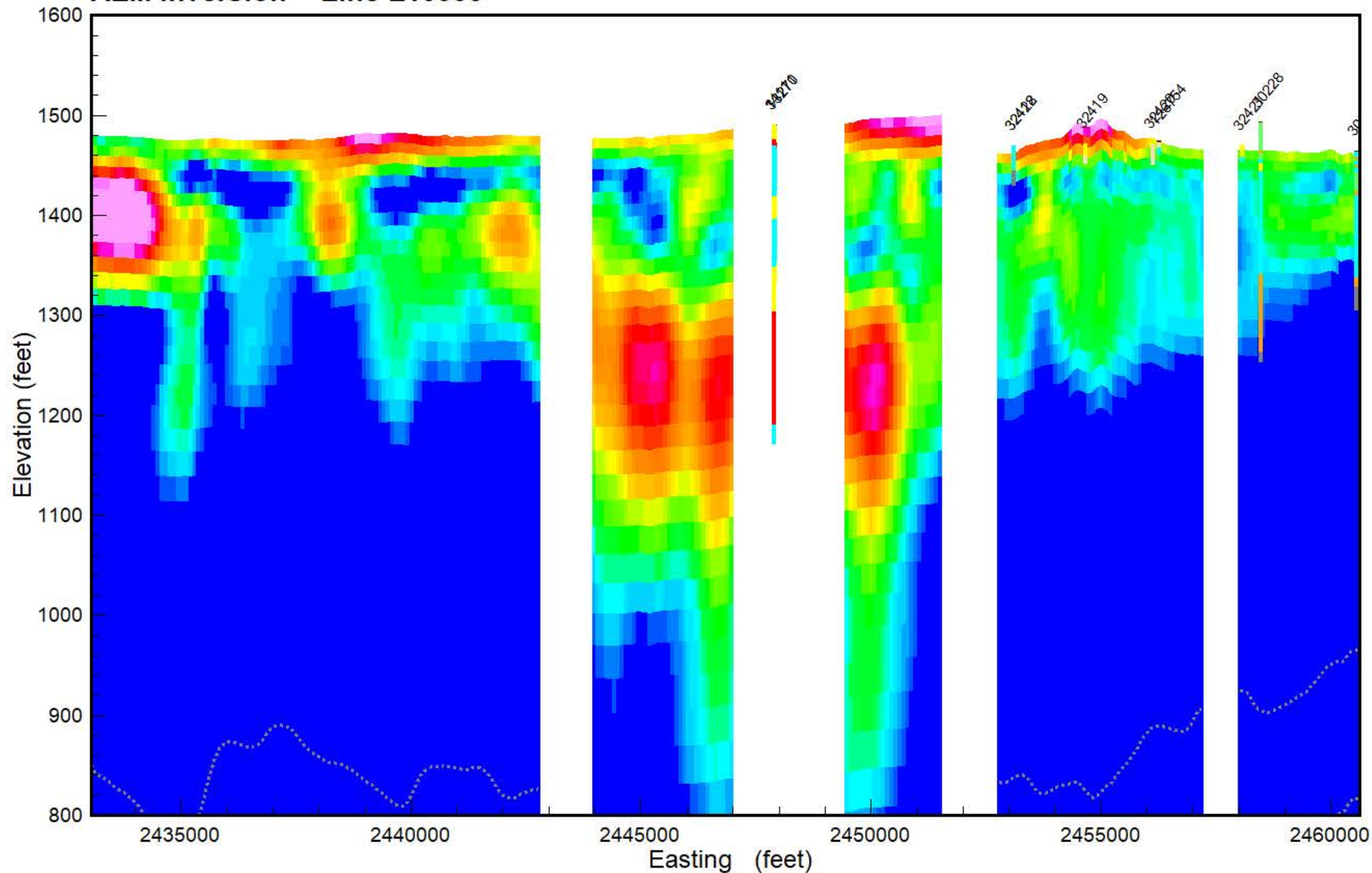
PEAT
LIGNITE
COBBLES
BOULDER
ROCK
PRECAMBRIAN
WEATHERED GRANITE
SANDSTONE
LIMESTONE
SILTSTONE
CLAYSTONE
SHALE
BEDROCK
GRAVEL
SAND & GRAVEL
SAND
INTERBEDDED
SILT
CLAY
TILL
FILL
TOPSOIL
NOSAMPLE



**Flight Path Line L10330**

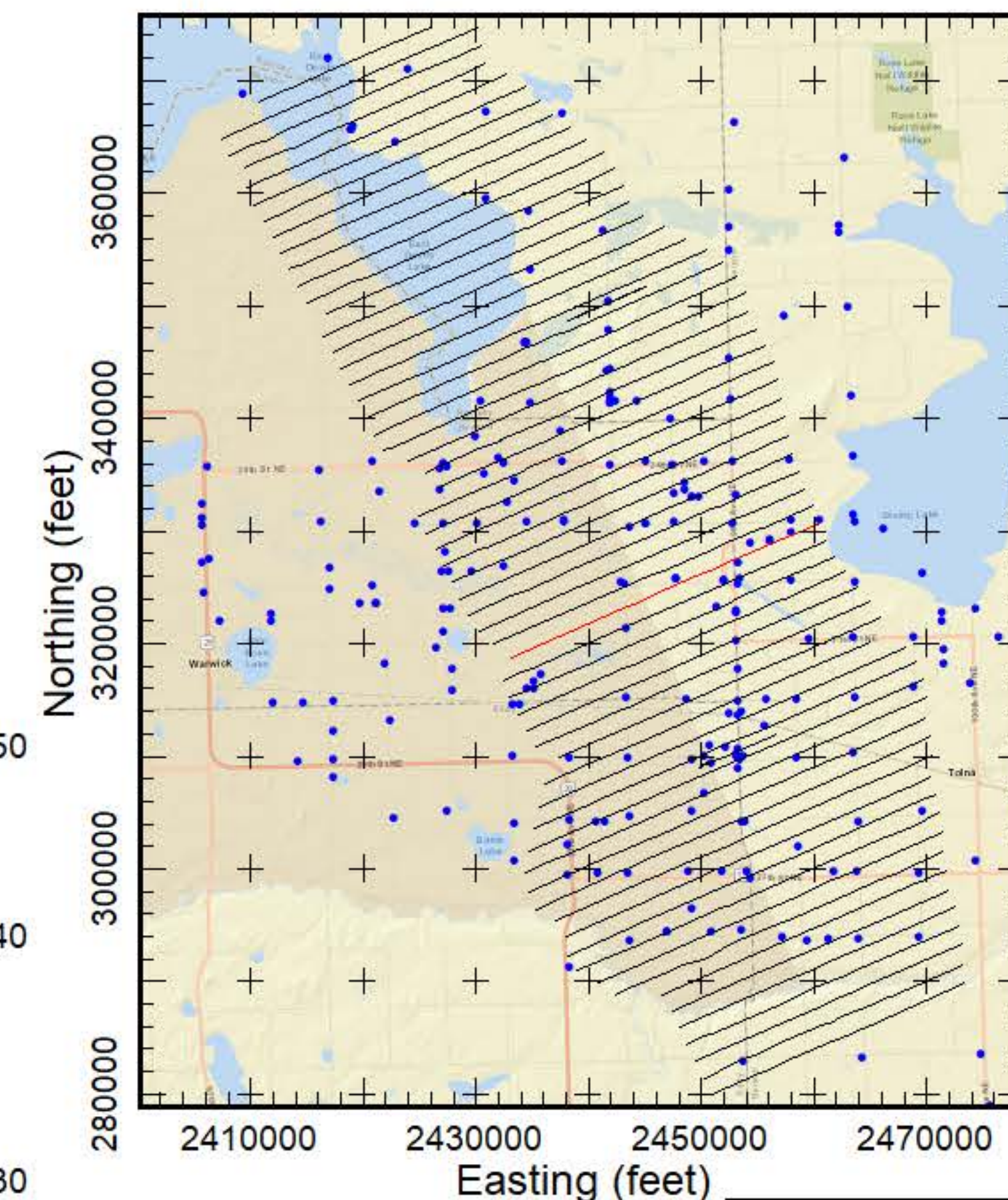


**AEM Inversion Line L10330**



**Flight Area Tolna**

**NORTH DAKOTA STATE WATER COMMISSION**  
 900 EAST BOULEVARD AVE, DEPT. 770  
 BISMARCK, ND 58505-0850

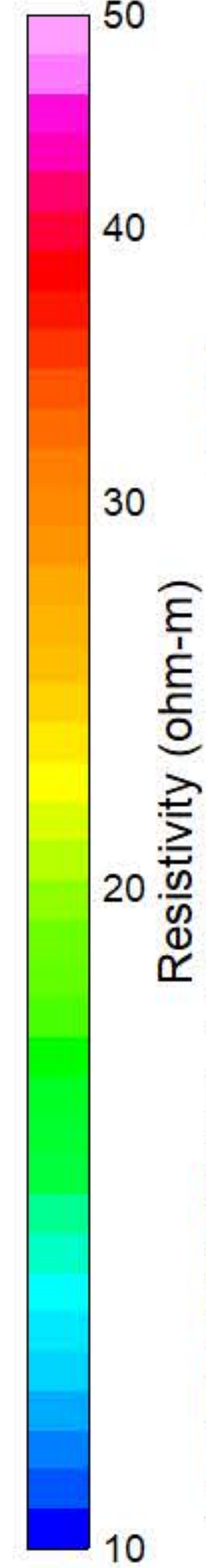
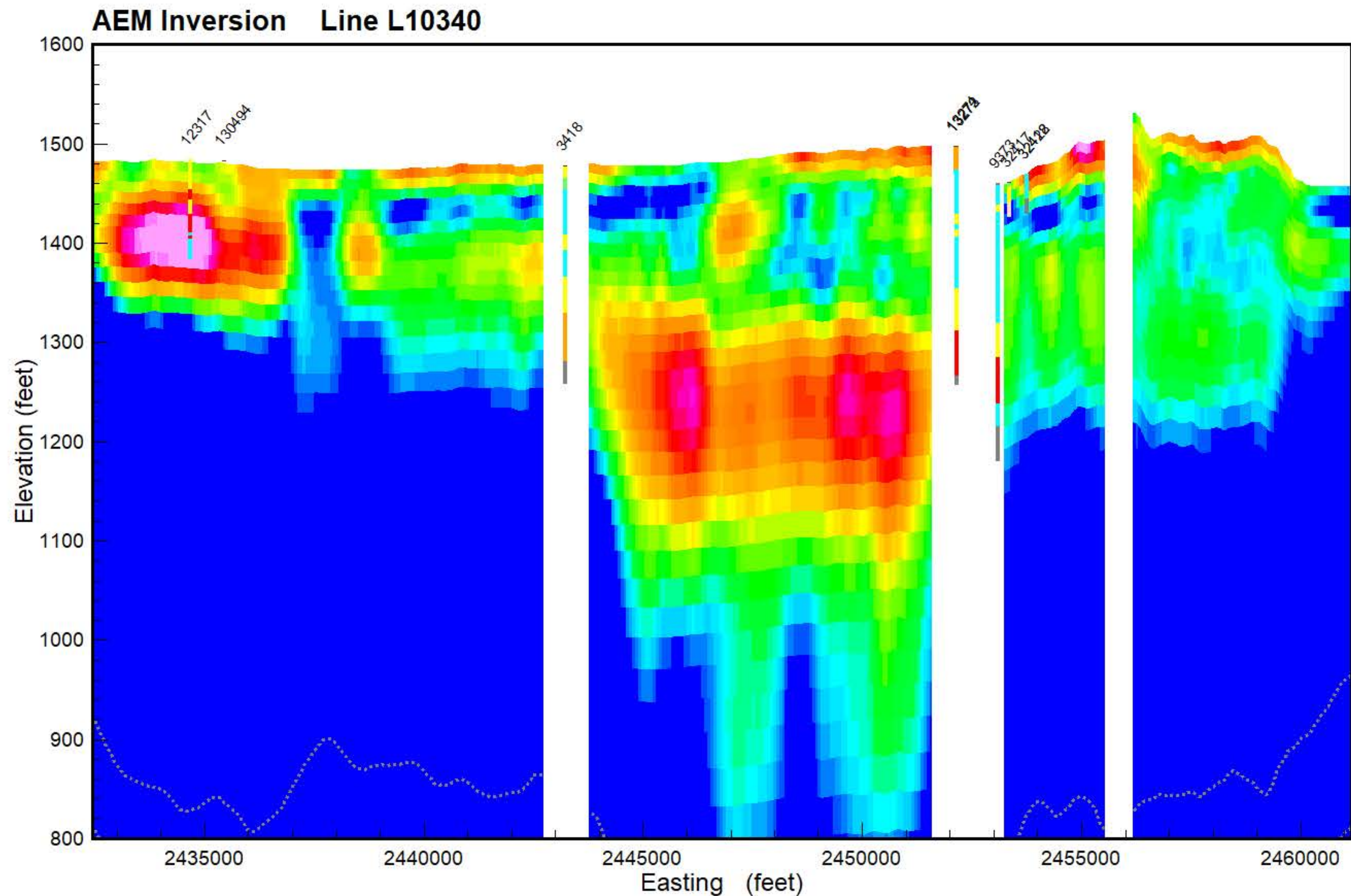
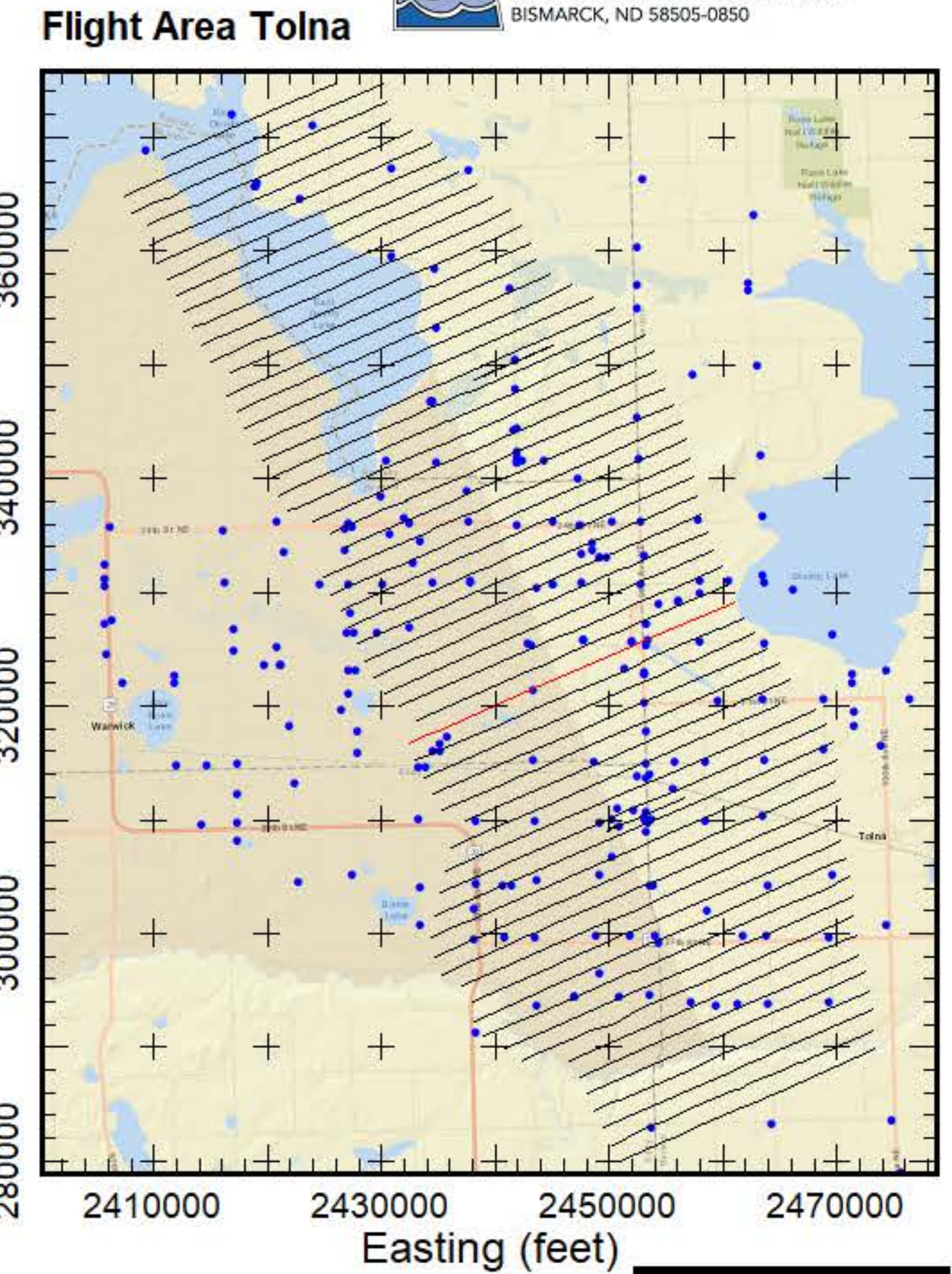
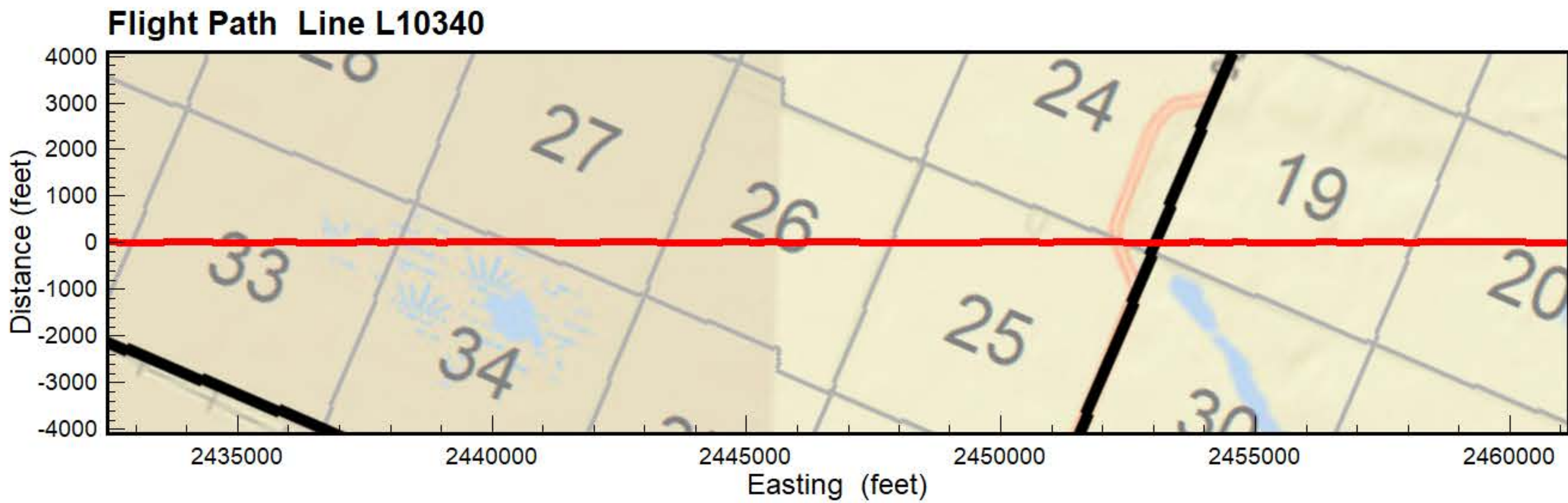


Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Tolna flight area from March 15-17, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 5.8.3. Boreholes are from the North Dakota State Water Commission Map service download October 2018 and are plotted within 1/4 mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua AGF Frameworks, LLC.

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- TILL
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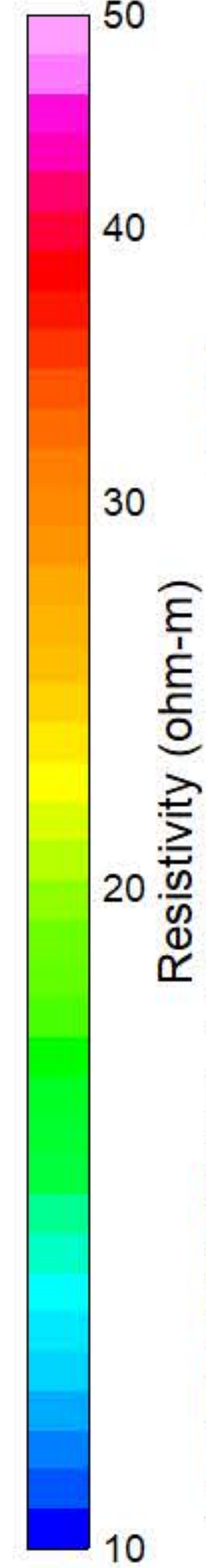
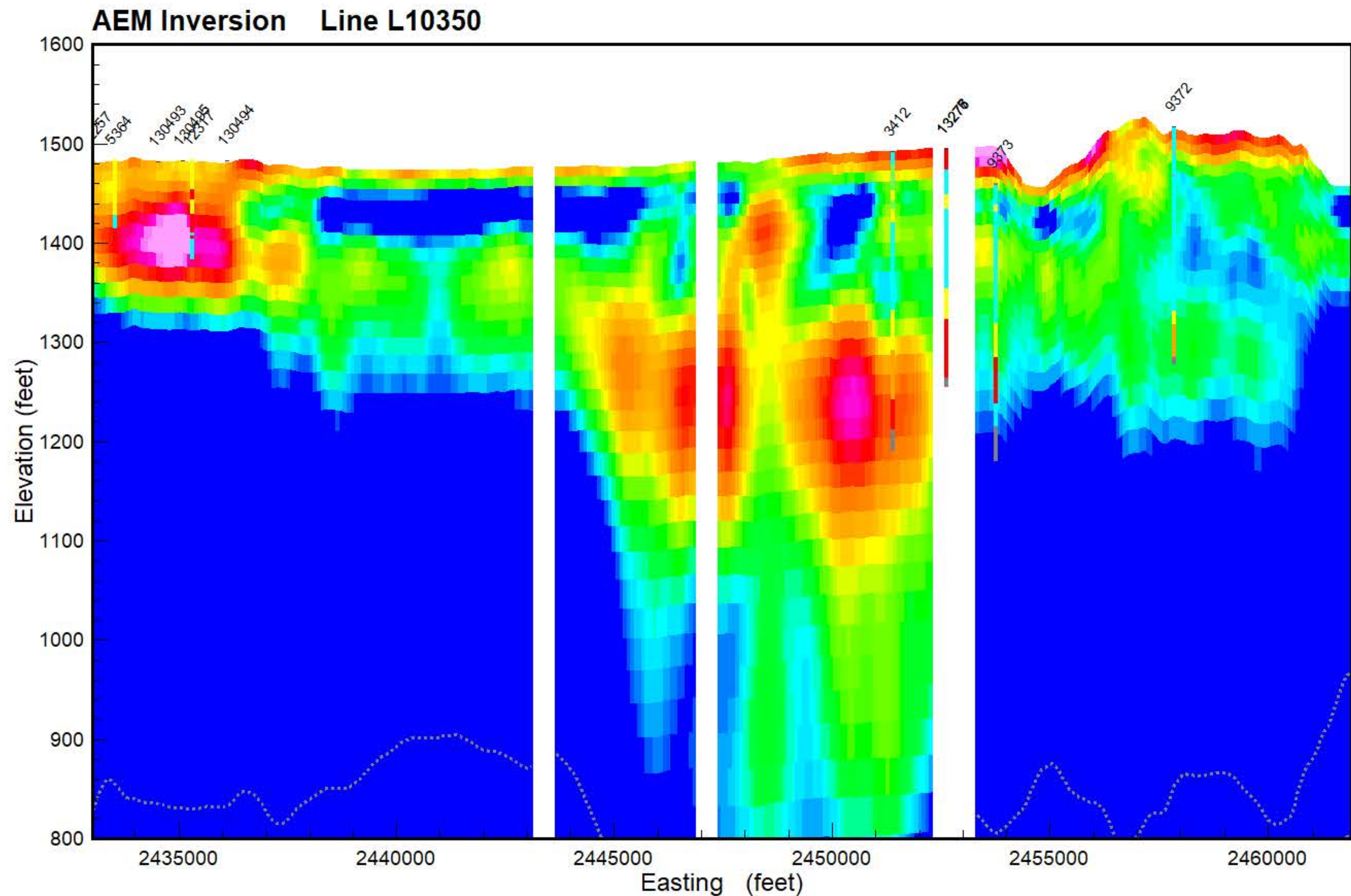
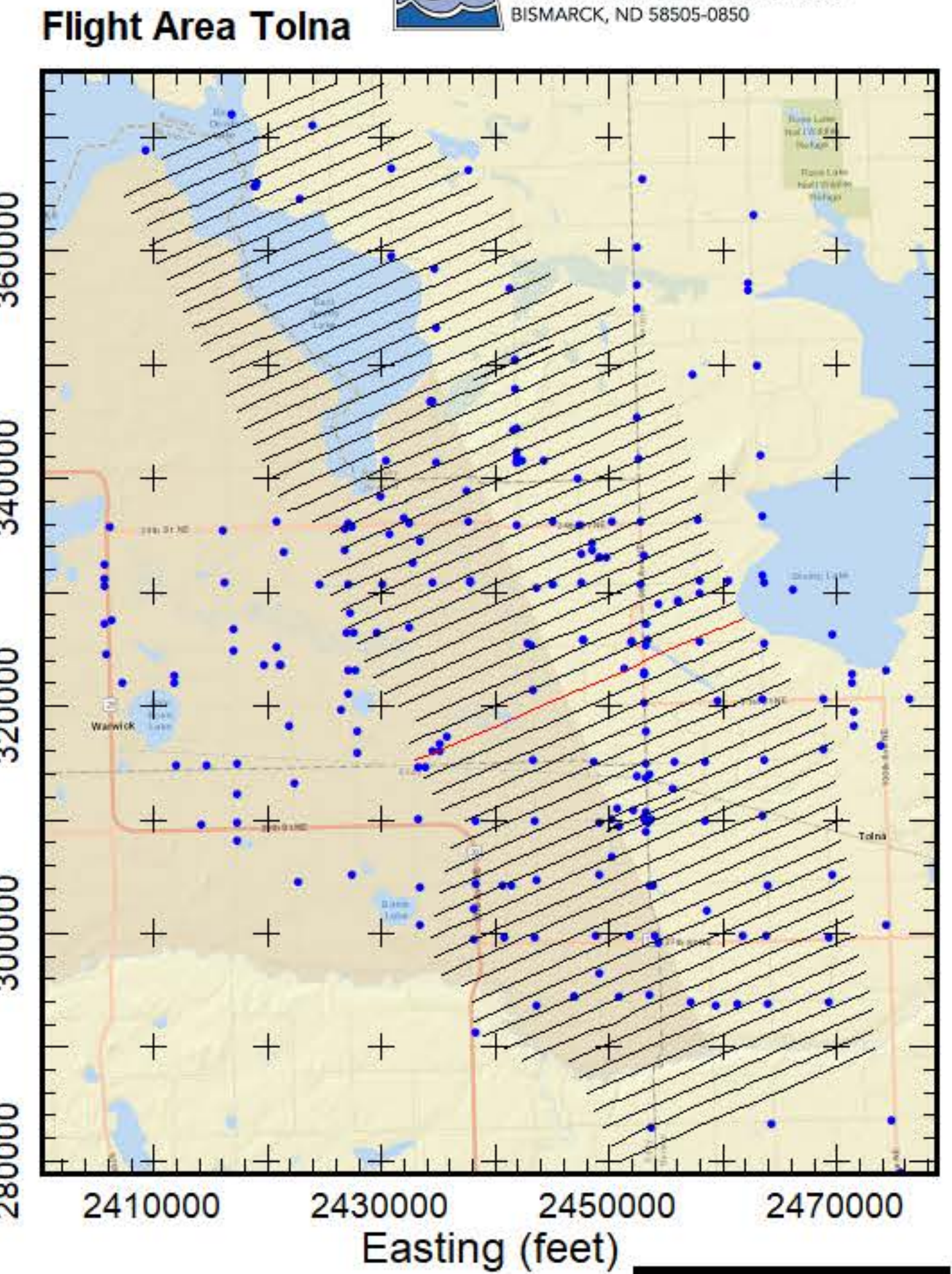
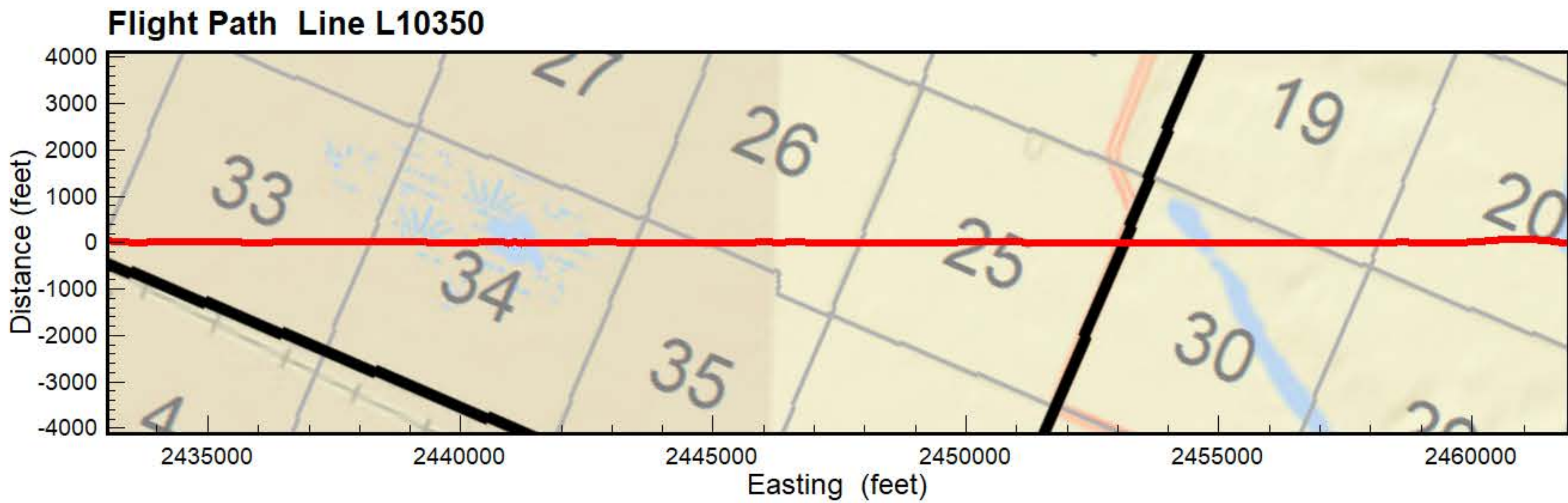


- PEAT
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Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Tolna flight area from March 15-17, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 5.8.3. Boreholes are from the North Dakota State Water Commission Map service download October 2018 and are plotted within 1/4 mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.





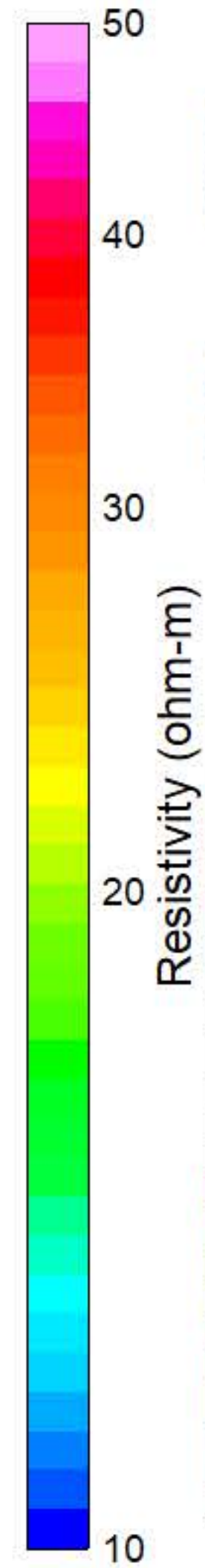
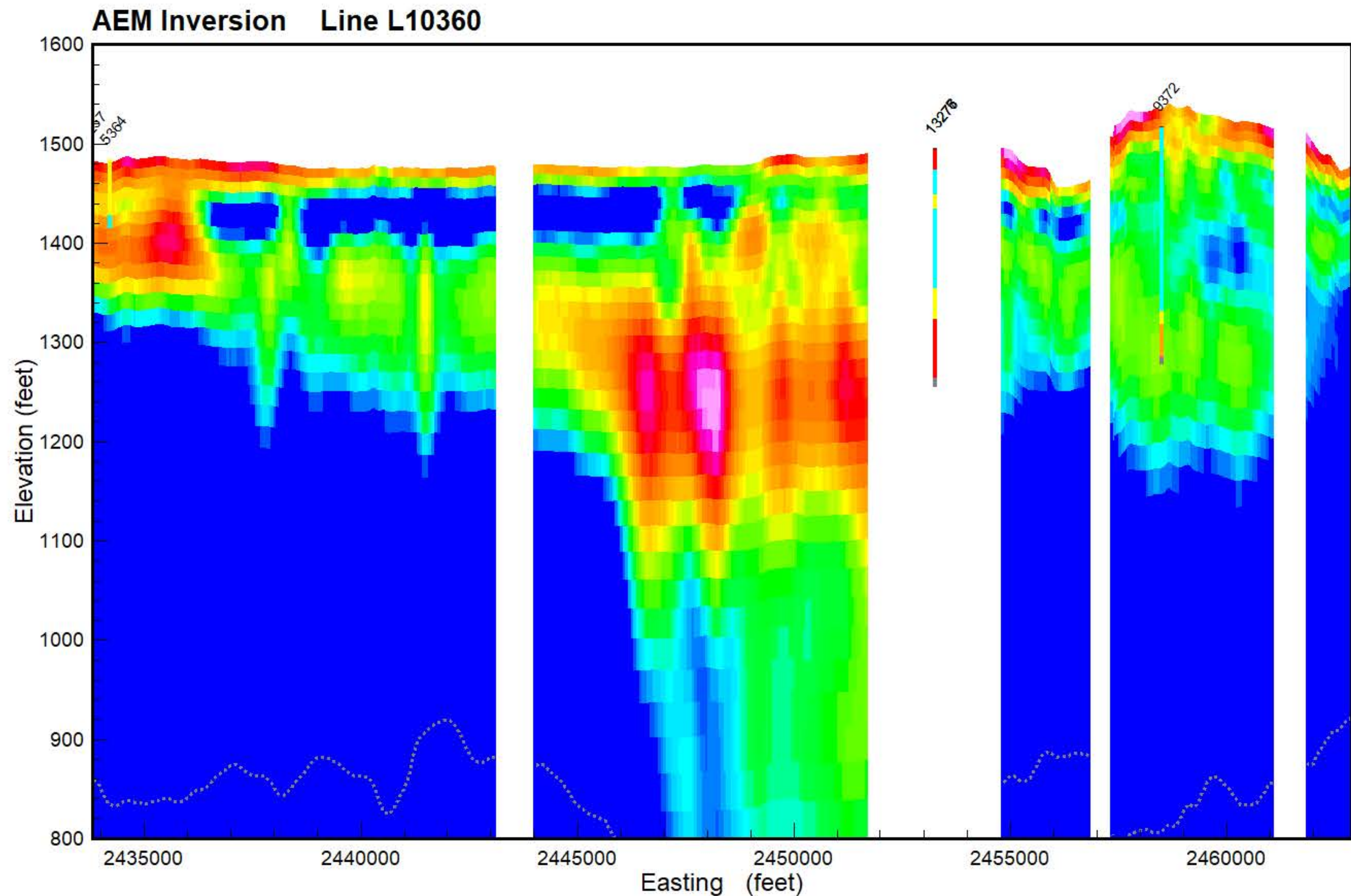
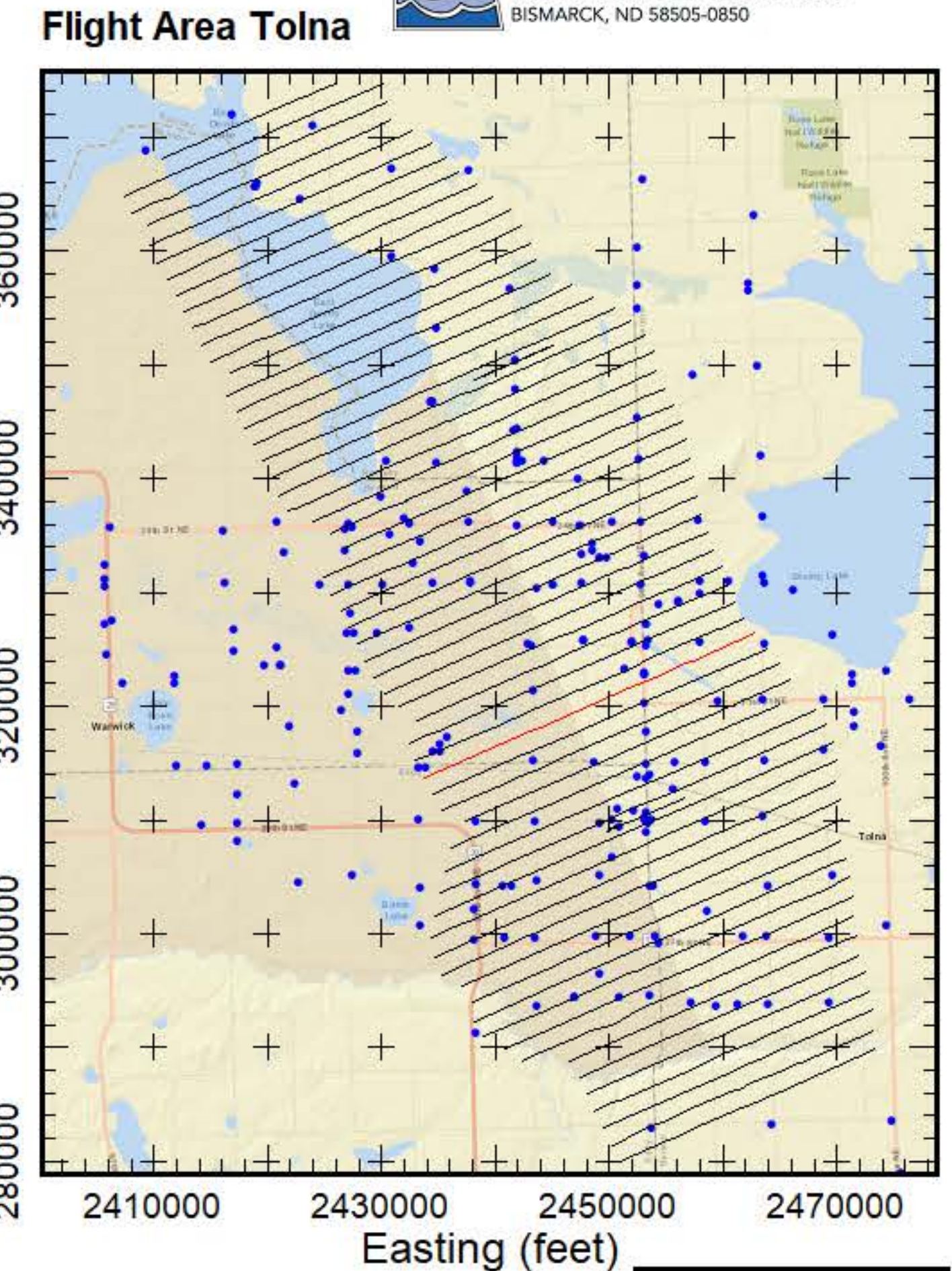
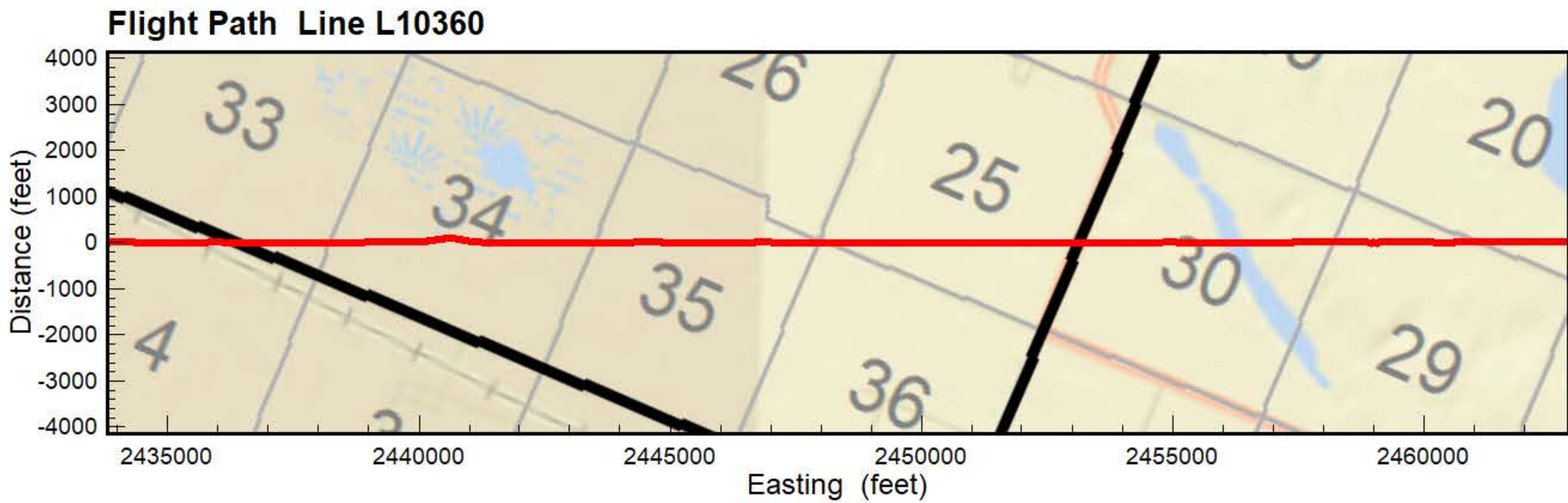


- PEAT
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- COBBLES
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- ROCK
- PRECAMBRIAN
- WEATHERED GRANITE
- SANDSTONE
- LIMESTONE
- SILTSTONE
- CLAYSTONE
- SHALE
- BEDROCK
- GRAVEL
- SAND & GRAVEL
- SAND
- INTERBEDDED
- SILT
- CLAY
- TILL
- FILL
- TOPSOIL
- NOSAMPLE

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Tolna flight area from March 15-17, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 5.8.3. Boreholes are from the North Dakota State Water Commission Map service download October 2018 and are plotted within 1/4 mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.







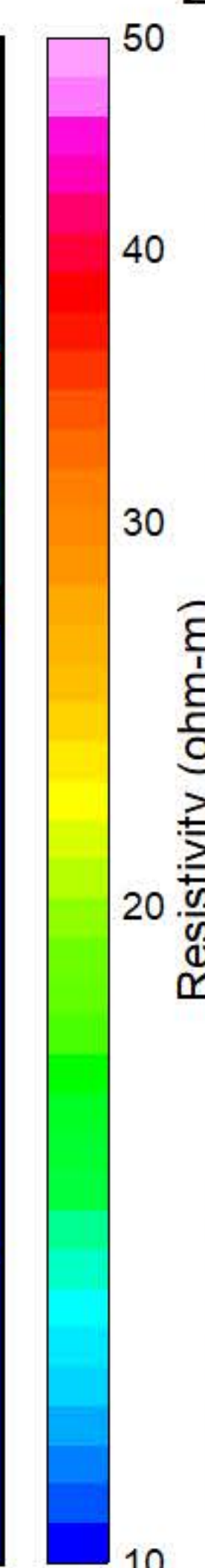
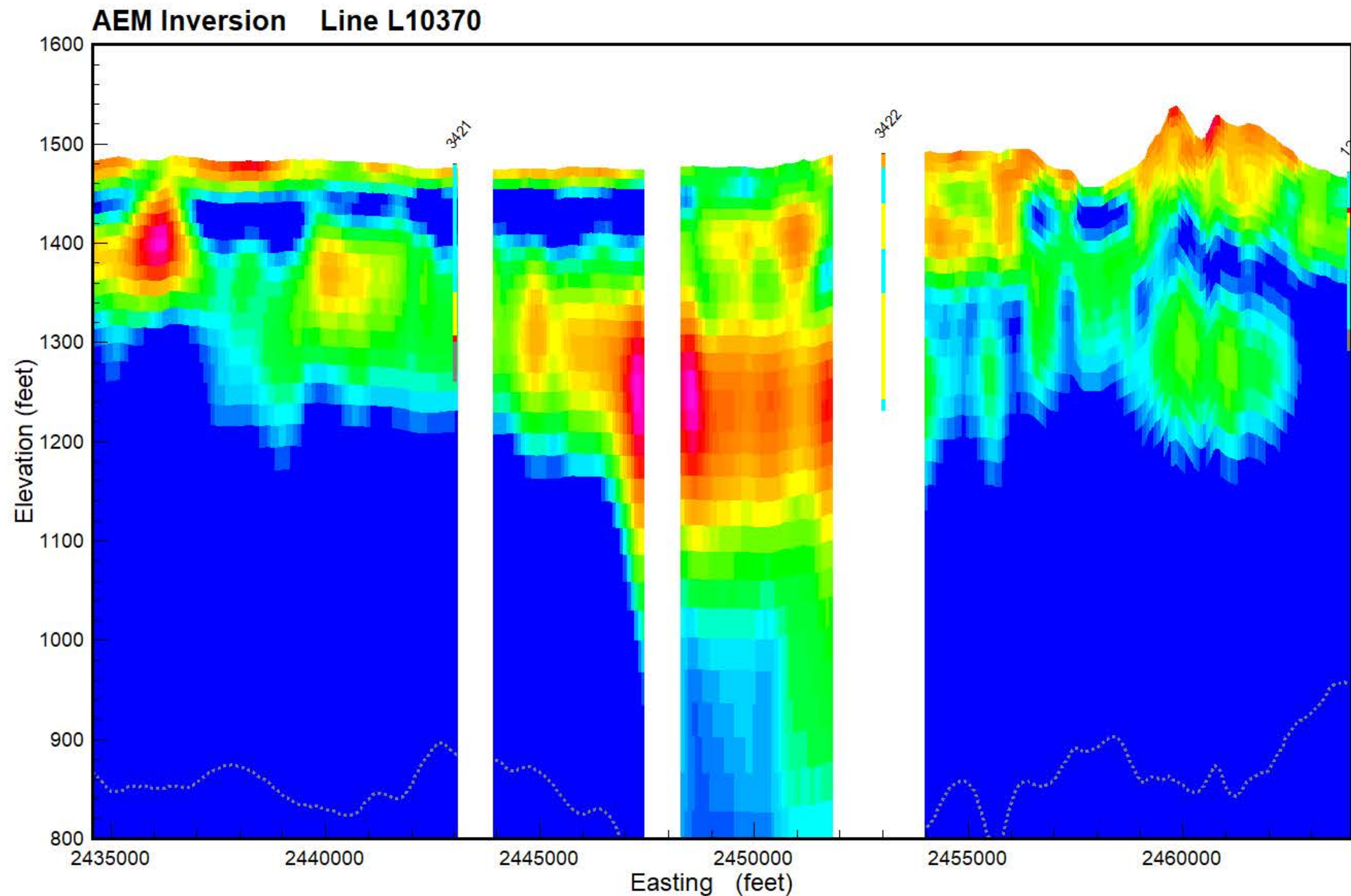
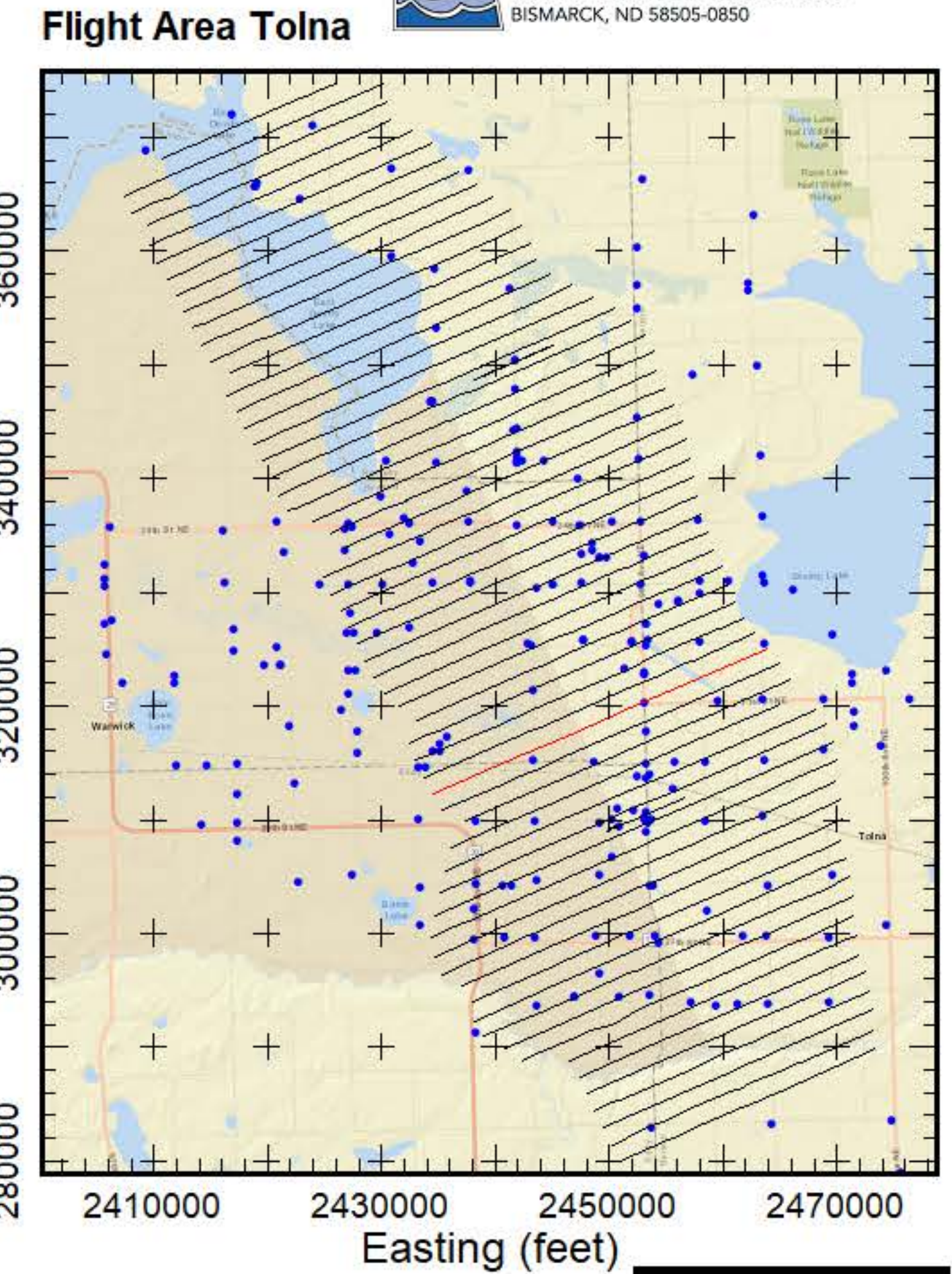
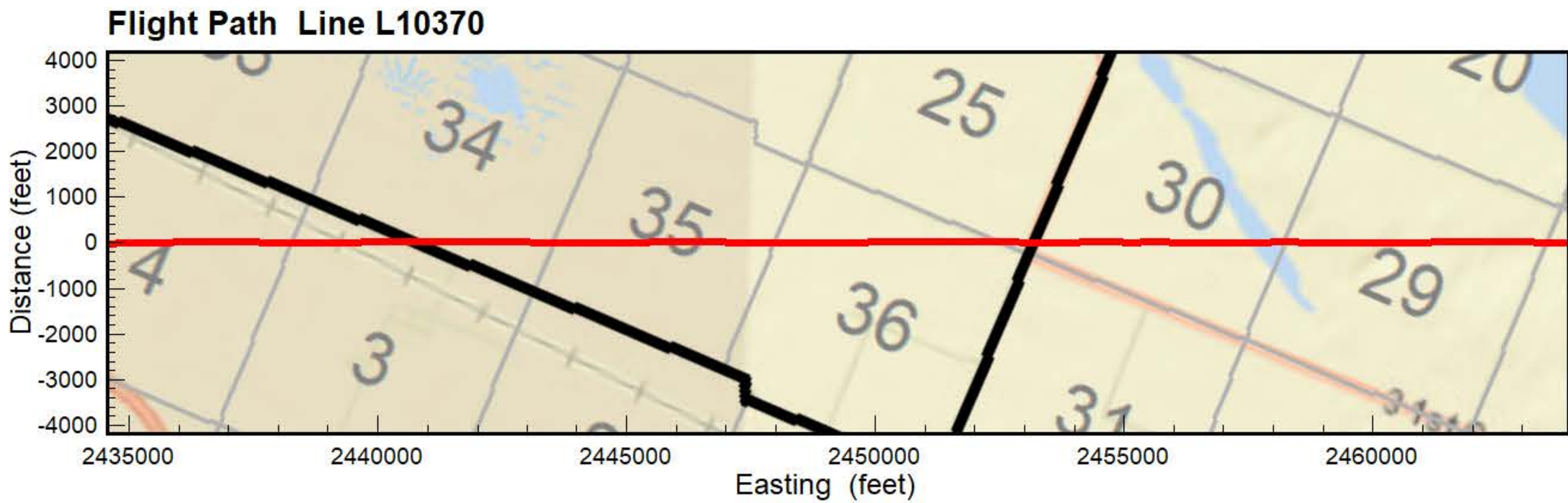
**GEOTECH**

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Tolna flight area from March 15-17, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 5.8.3. Boreholes are from the North Dakota State Water Commission Map service download October 2018 and are plotted within 1/4 mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua AGF Frameworks, LLC.

- PEAT
- LIGNITE
- COBBLES
- BOULDER
- ROCK
- PRECAMBRIAN
- WEATHERED GRANITE
- SANDSTONE
- LIMESTONE
- SILTSTONE
- CLAYSTONE
- SHALE
- BEDROCK
- GRAVEL
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- INTERBEDDED
- SILT
- CLAY
- TILL
- FILL
- TOPSOIL
- NOSAMPLE







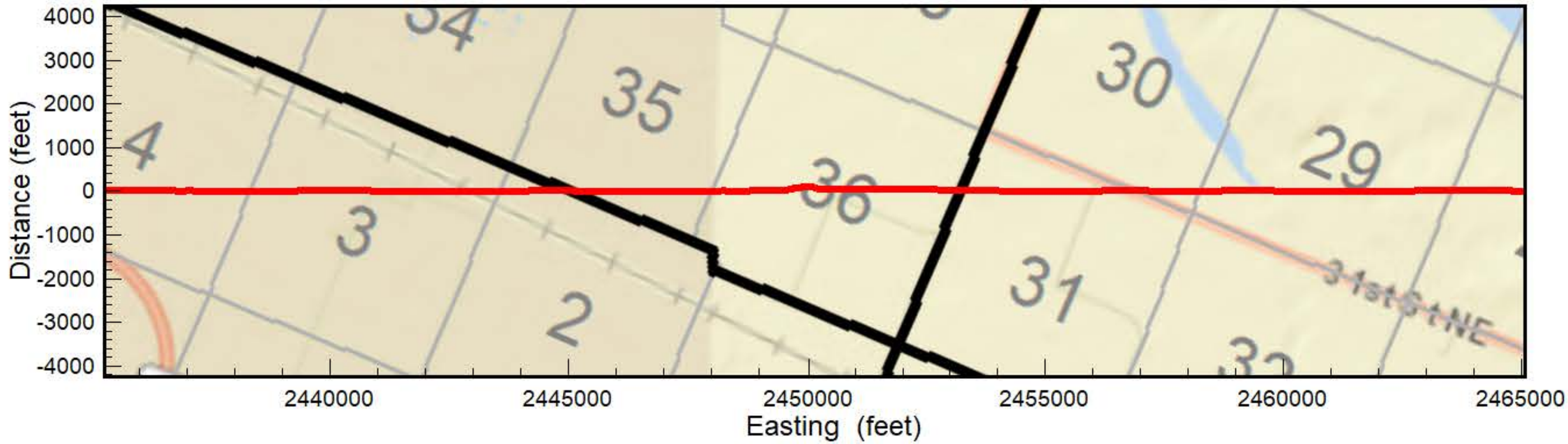
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- LIGNITE
- COBBLES
- BOULDER
- ROCK
- PRECAMBRIAN
- WEATHERED GRANITE
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- LIMESTONE
- SILTSTONE
- CLAYSTONE
- SHALE
- BEDROCK
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- SAND & GRAVEL
- SAND
- INTERBEDDED
- SILT
- CLAY
- TILL
- FILL
- TOPSOIL
- NOSAMPLE

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Tolna flight area from March 15-17, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 5.8.3. Boreholes are from the North Dakota State Water Commission Map service download October 2018 and are plotted within 1/4 mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua AGF Frameworks, LLC.

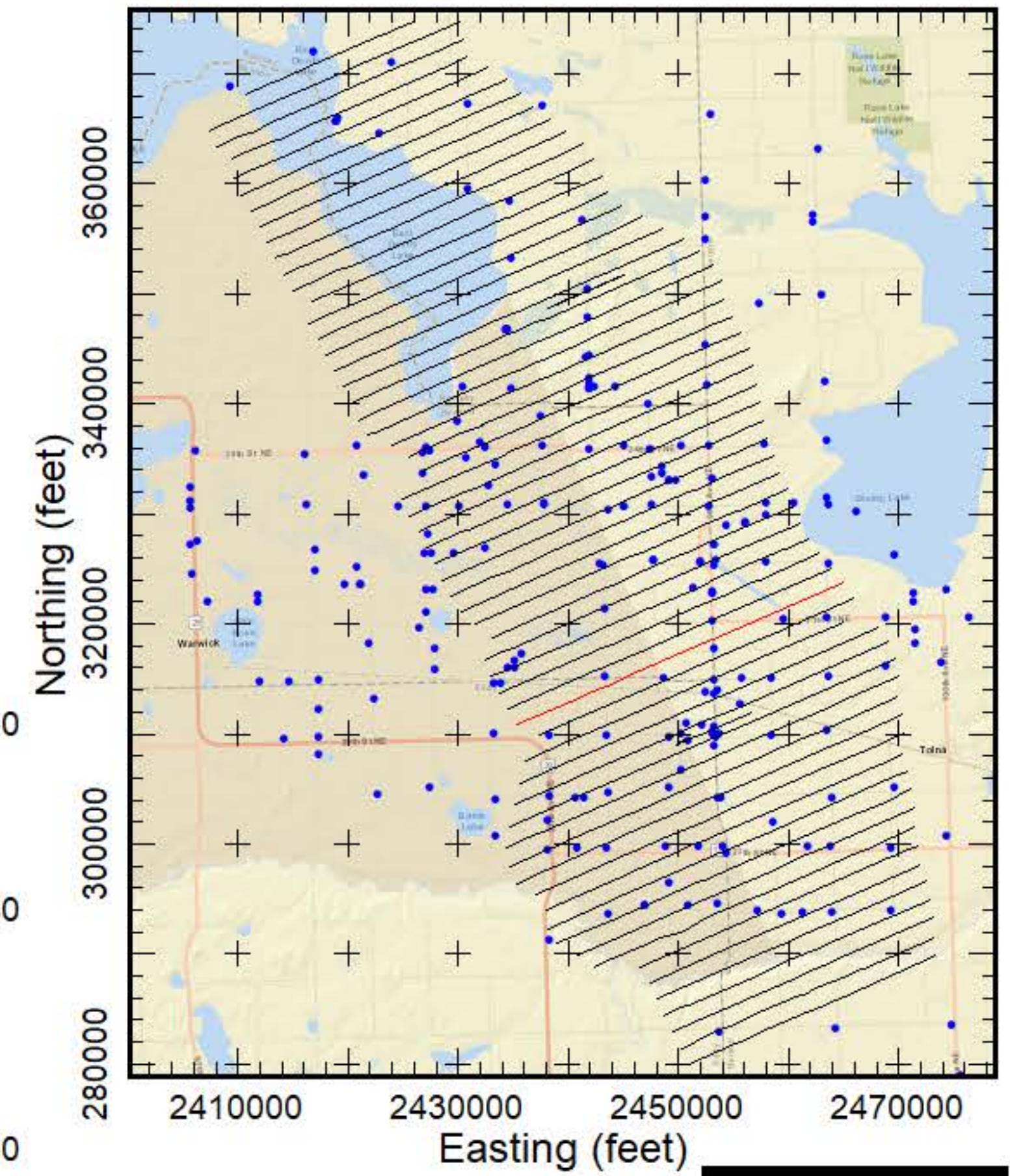




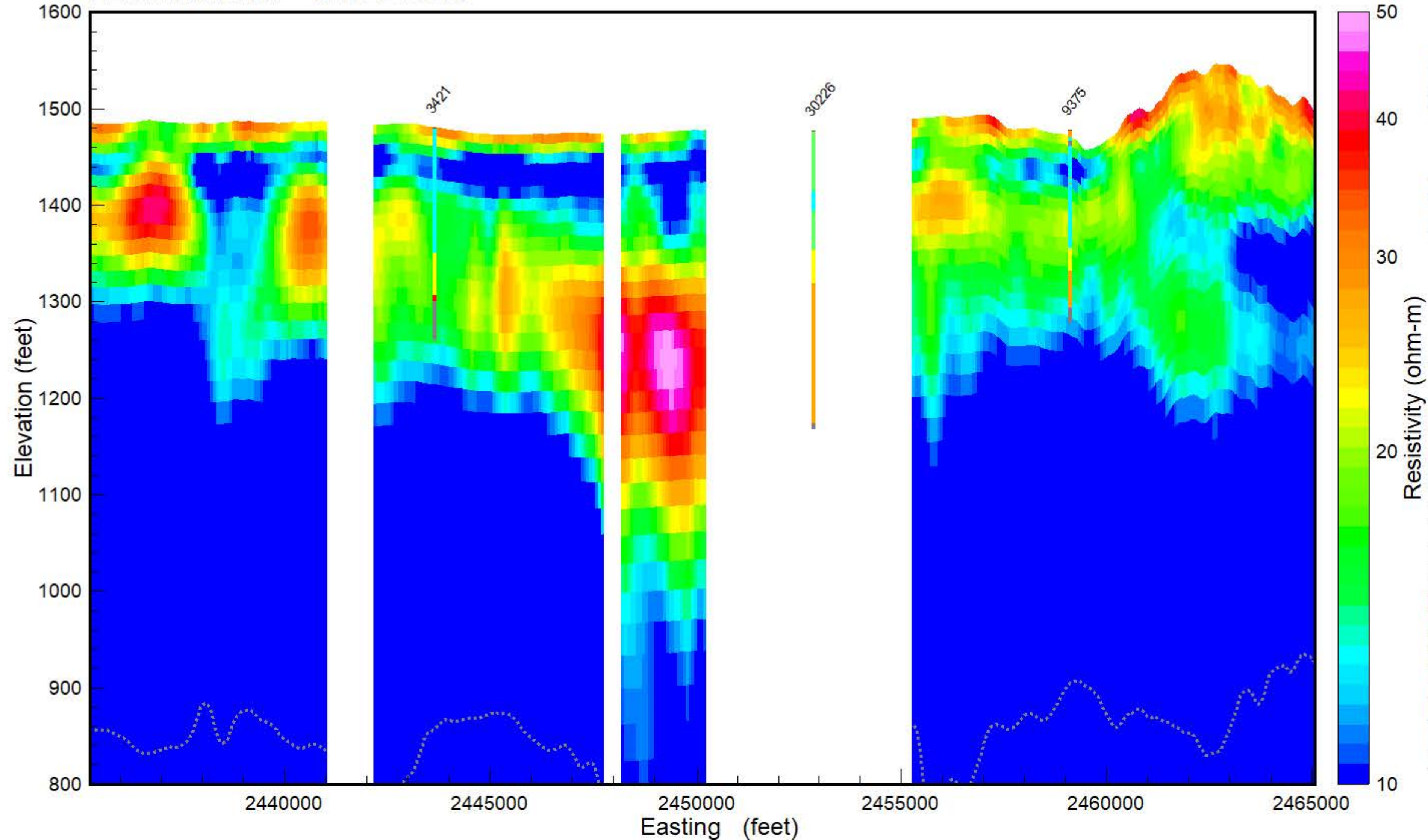
**Flight Path Line L10380**



**Flight Area Tolna**



**AEM Inversion Line L10380**



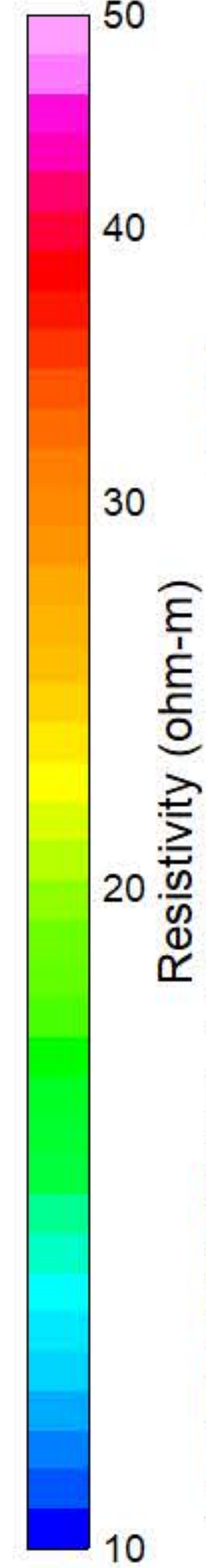
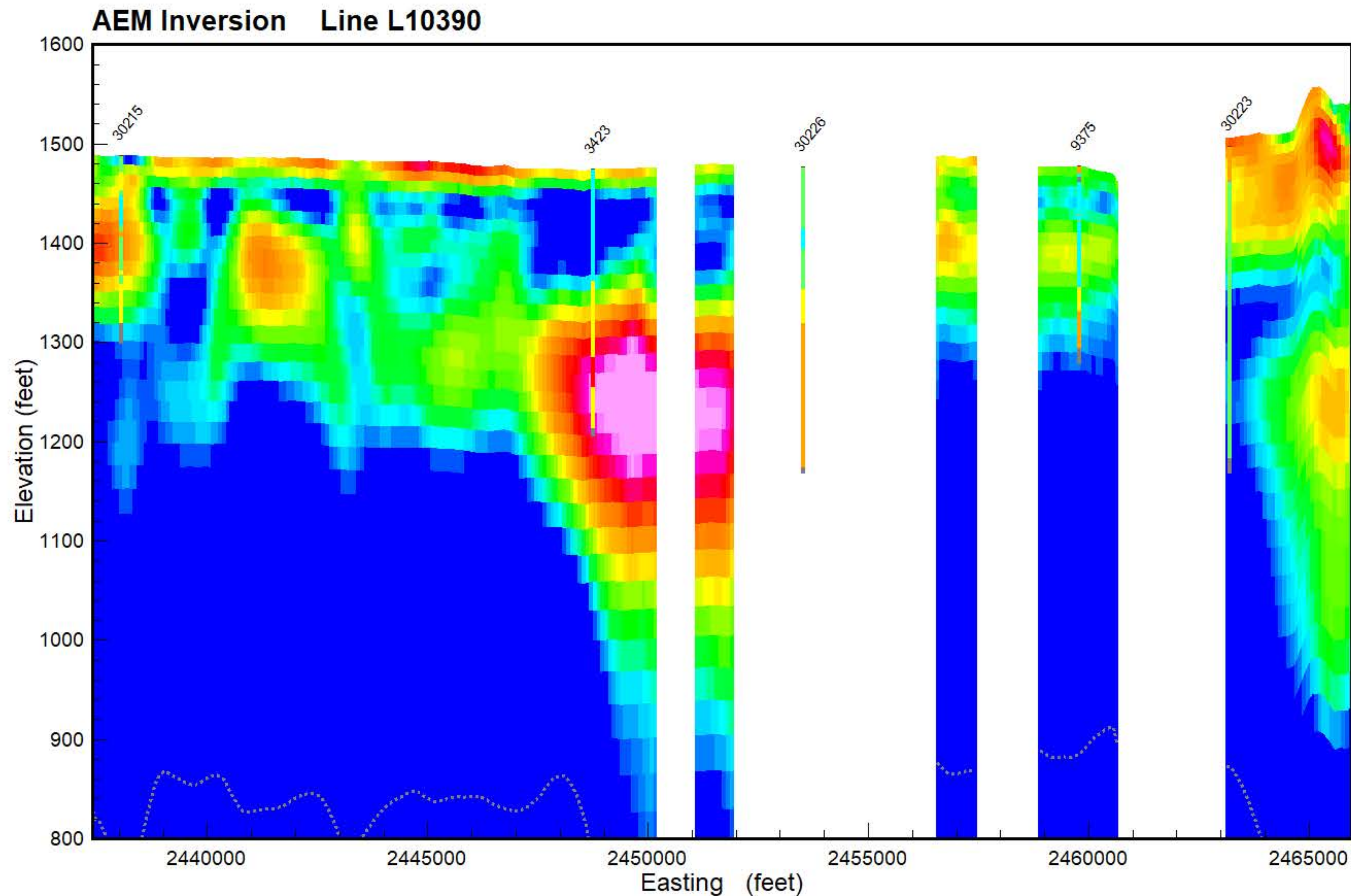
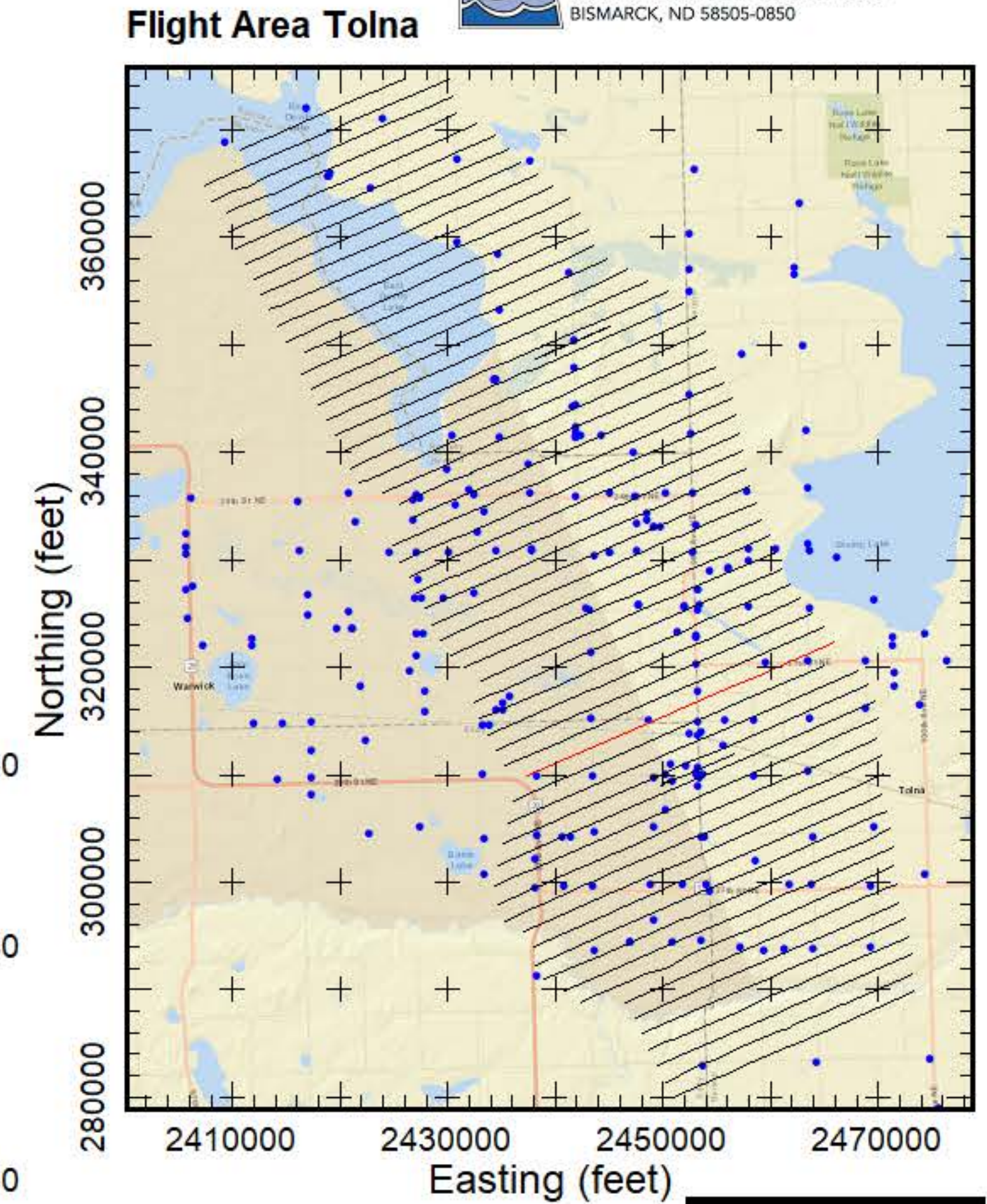
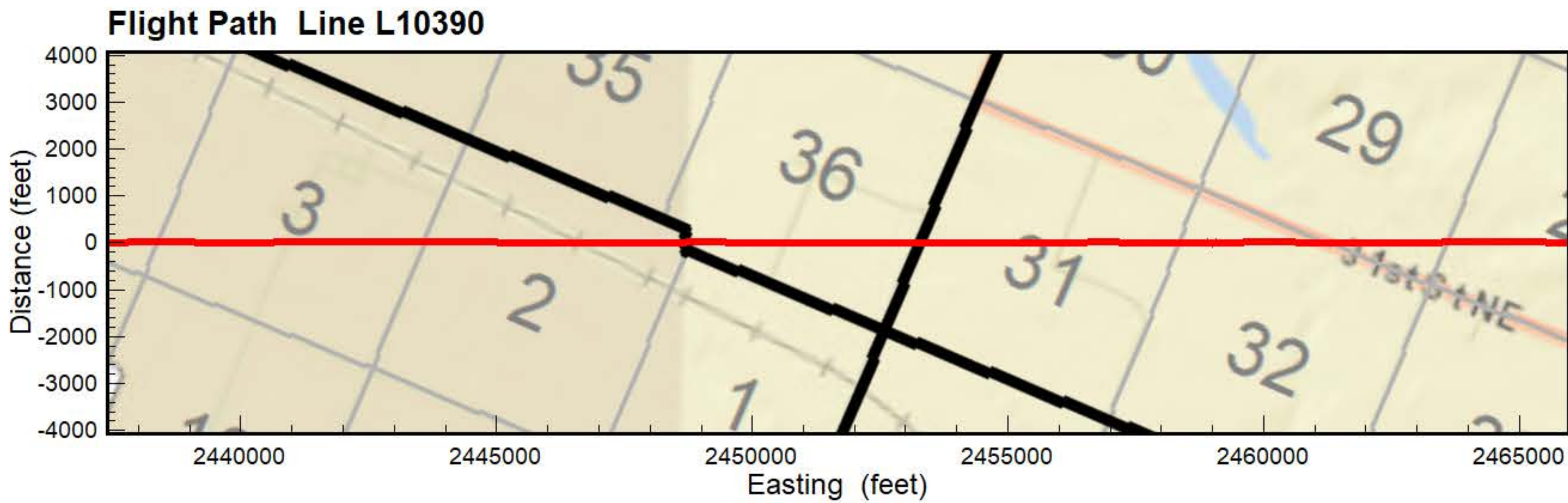
Resistivity (ohm-m)

- PEAT
- LIGNITE
- COBBLES
- BOULDER
- ROCK
- PRECAMBRIAN
- WEATHERED GRANITE
- SANDSTONE
- LIMESTONE
- SILTSTONE
- CLAYSTONE
- SHALE
- BEDROCK
- GRAVEL
- SAND & GRAVEL
- SAND
- INTERBEDDED
- SILT
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- NOSAMPLE

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Tolna flight area from March 15-17, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 5.8.3. Boreholes are from the North Dakota State Water Commission Map service download October 2018 and are plotted within 1/4 mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.





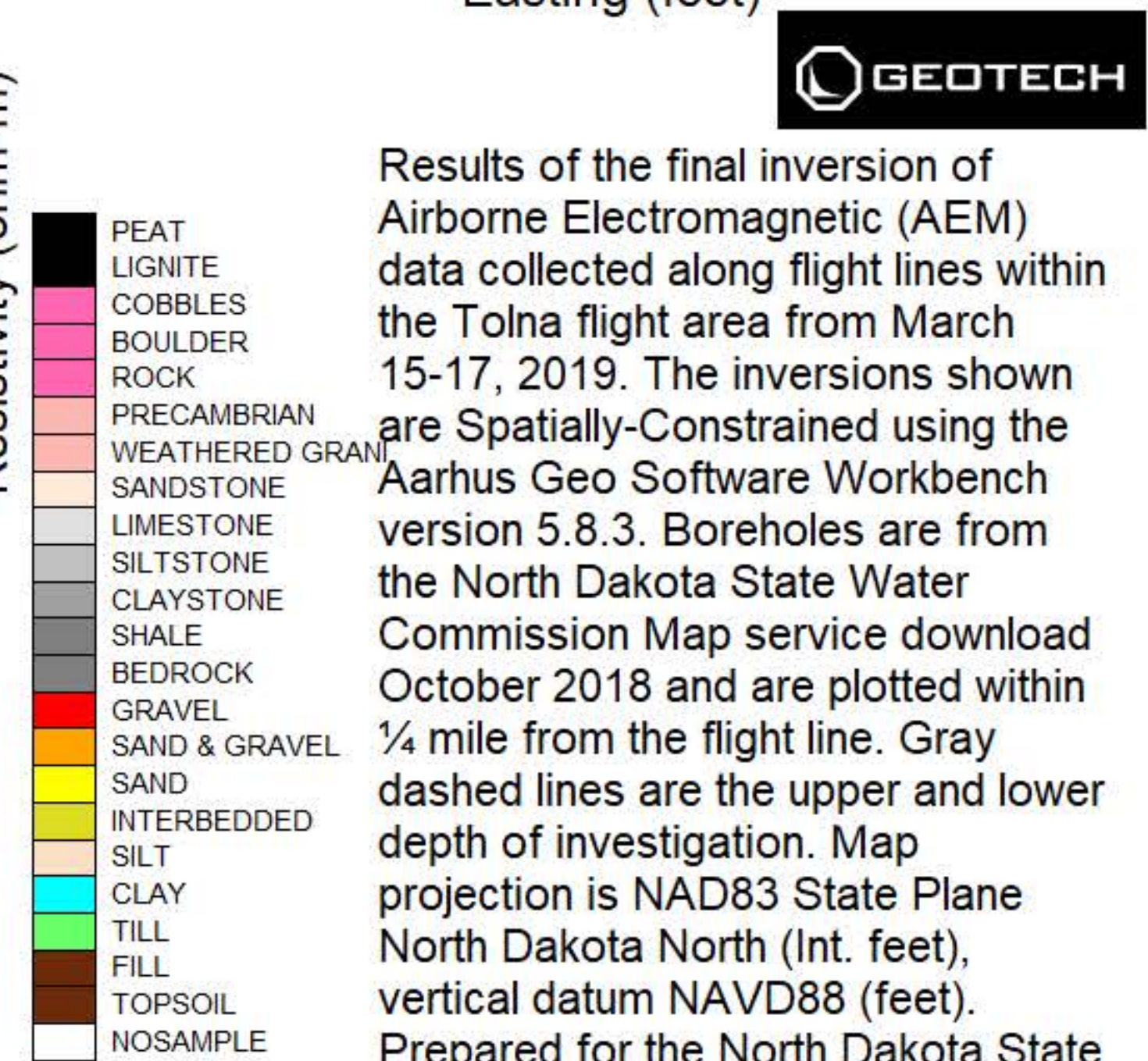
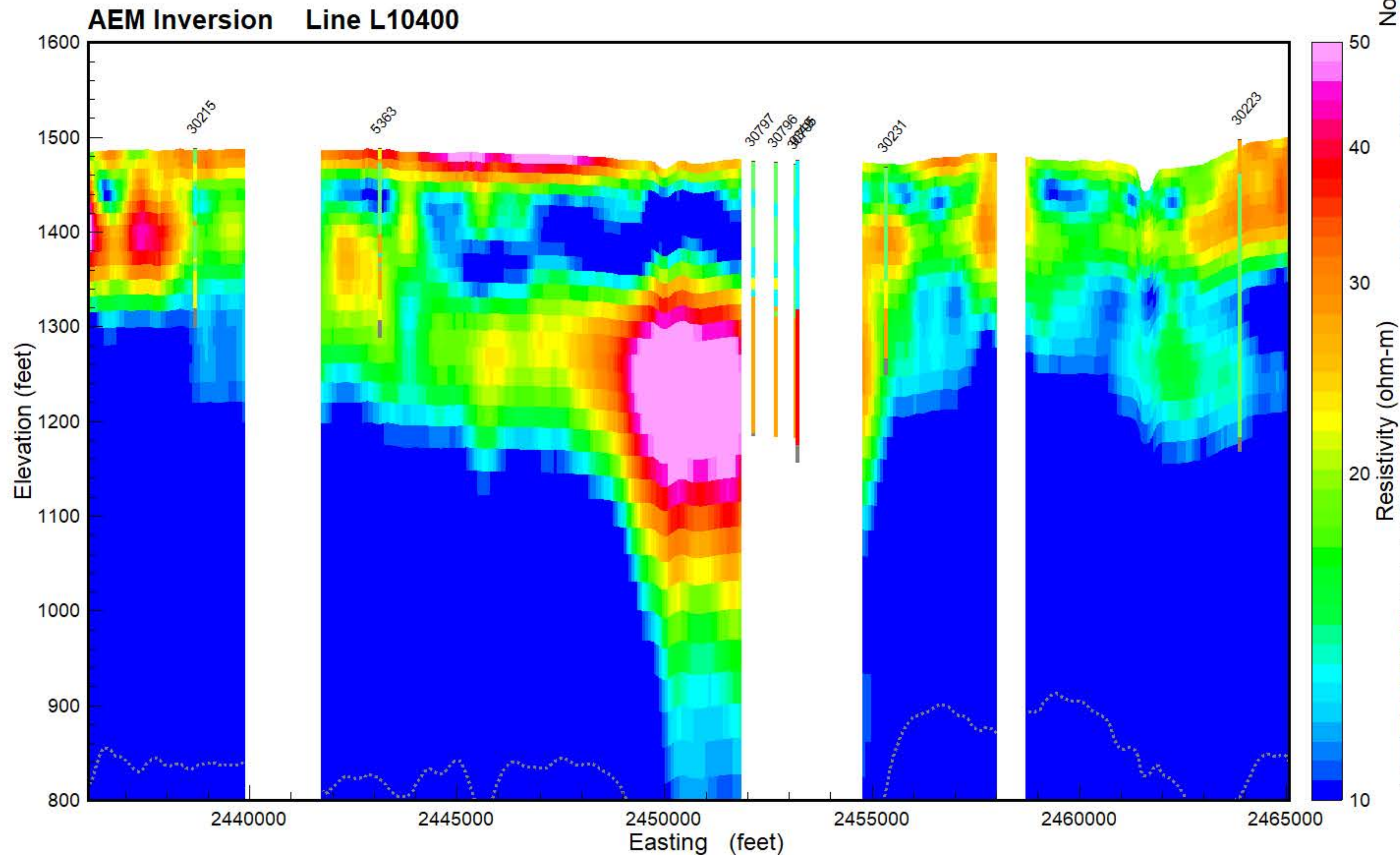
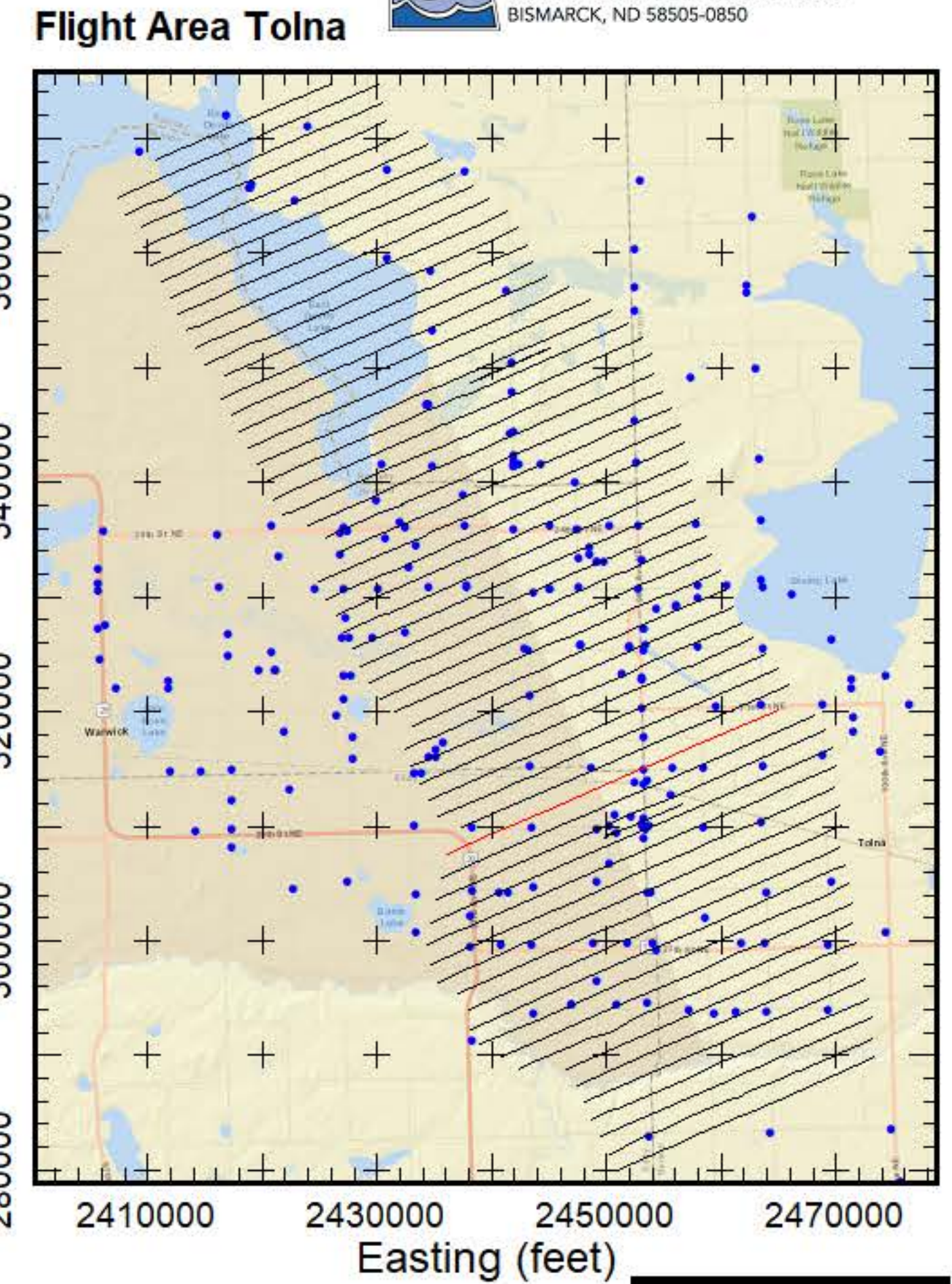
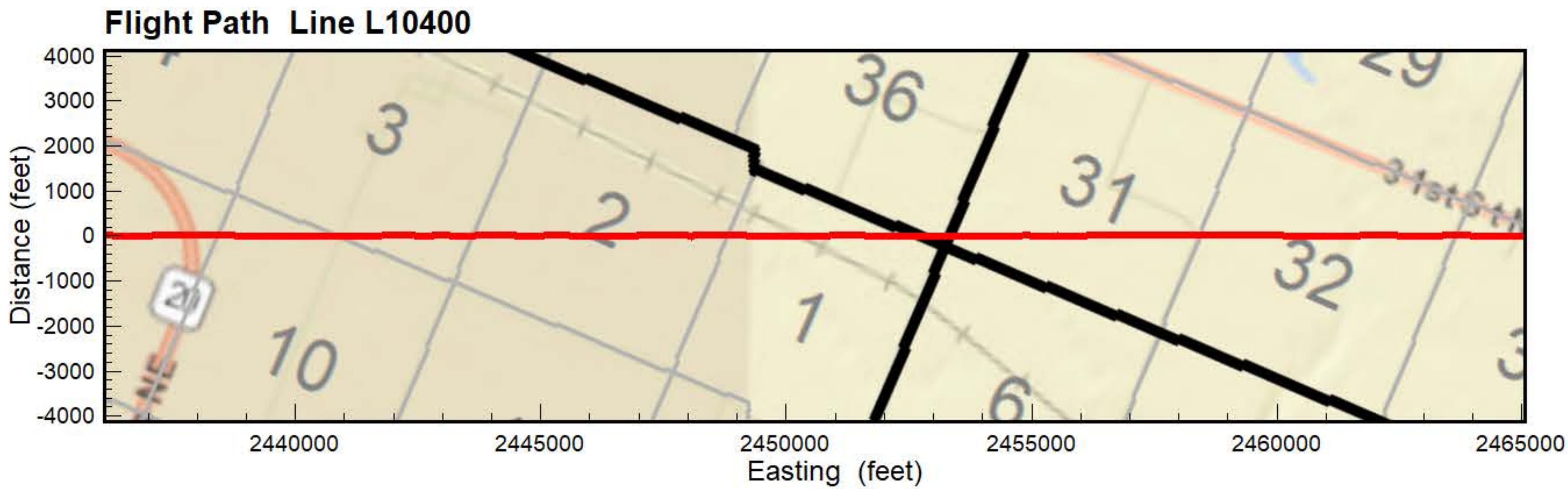


- PEAT
- LIGNITE
- COBBLES
- BOULDER
- ROCK
- PRECAMBRIAN
- WEATHERED GRANITE
- SANDSTONE
- LIMESTONE
- SILTSTONE
- CLAYSTONE
- SHALE
- BEDROCK
- GRAVEL
- SAND & GRAVEL
- SAND
- INTERBEDDED
- SILT
- CLAY
- TILL
- FILL
- TOPSOIL
- NOSAMPLE

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Tolna flight area from March 15-17, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 5.8.3. Boreholes are from the North Dakota State Water Commission Map service download October 2018 and are plotted within 1/4 mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.





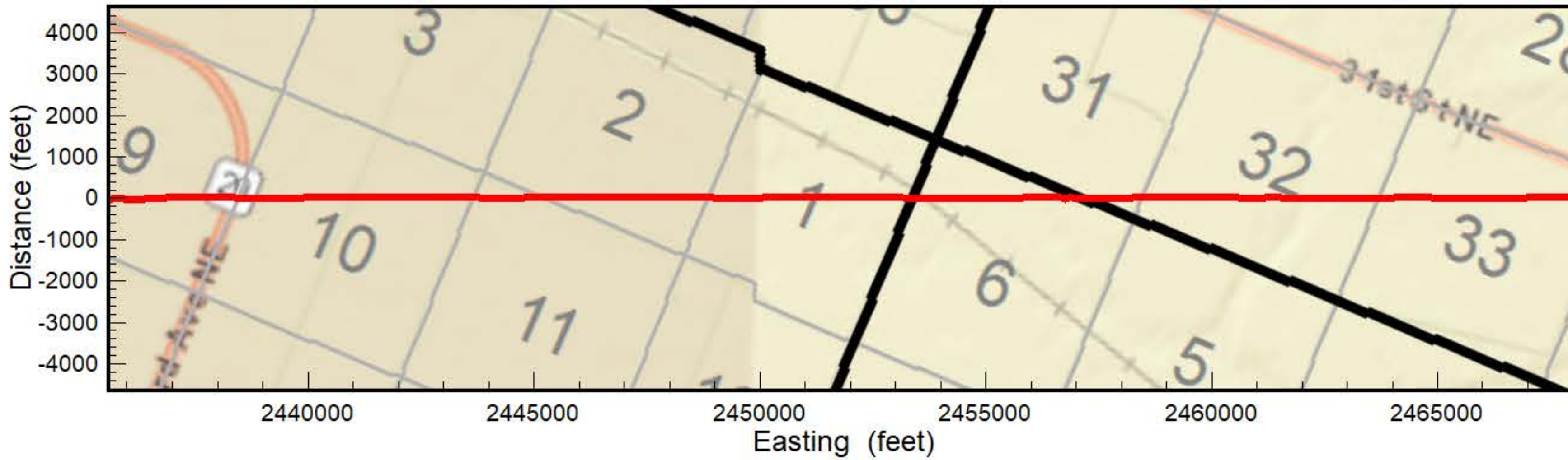


Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Tolna flight area from March 15-17, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 5.8.3. Boreholes are from the North Dakota State Water Commission Map service download October 2018 and are plotted within 1/4 mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

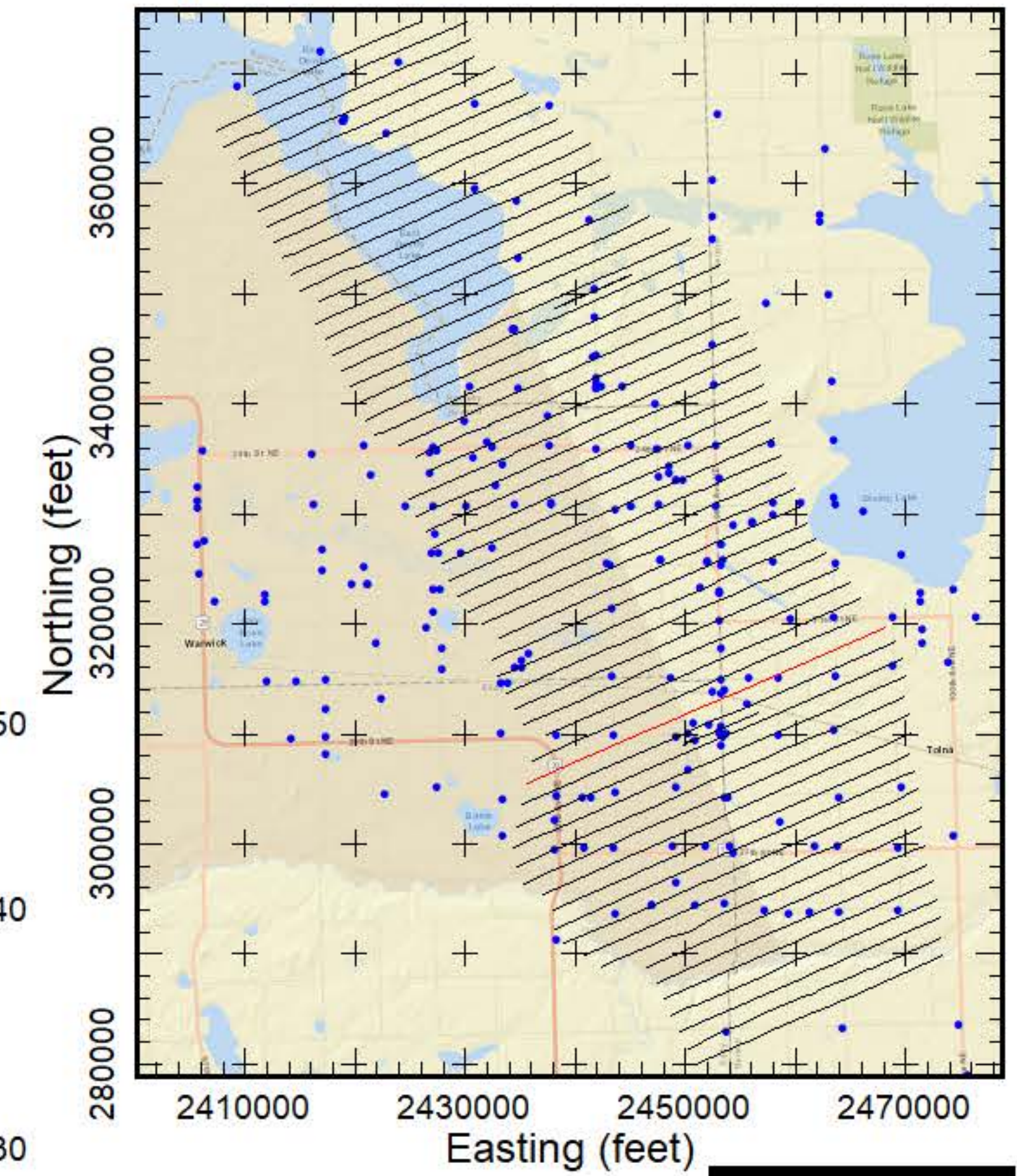




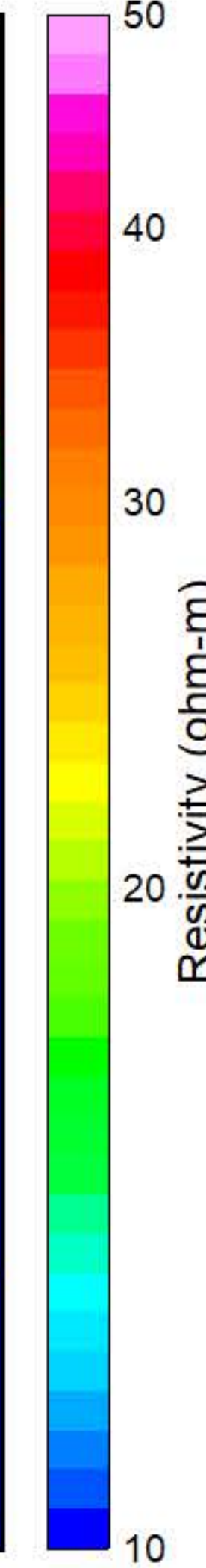
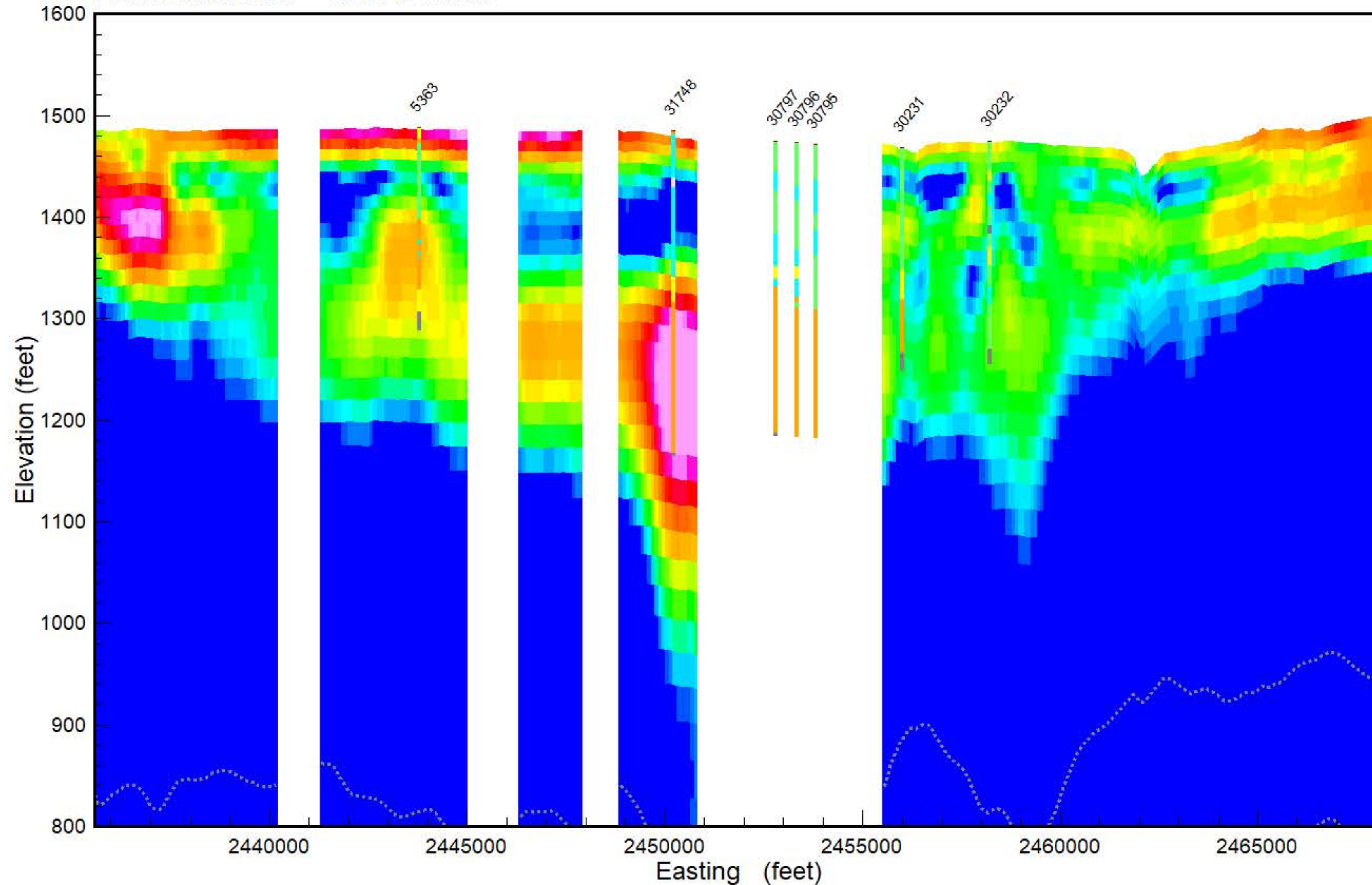
**Flight Path Line L10410**



**Flight Area Tolna**



**AEM Inversion Line L10410**



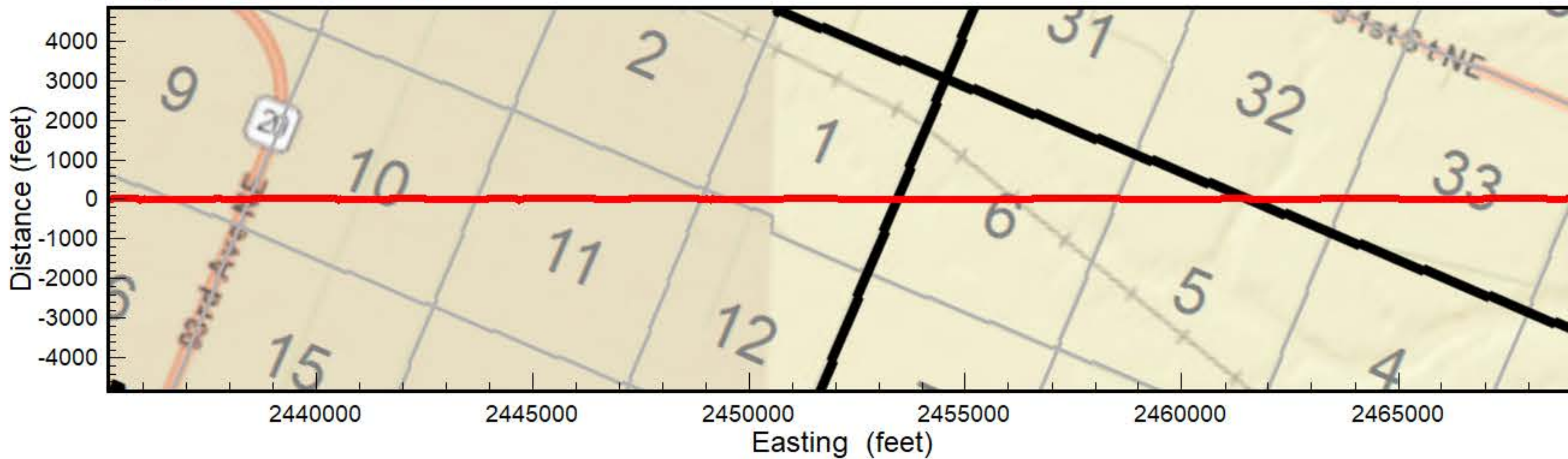
- PEAT
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- BOULDER
- ROCK
- PRECAMBRIAN
- WEATHERED GRANITE
- SANDSTONE
- LIMESTONE
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- SAND & GRAVEL
- SAND
- INTERBEDDED
- SILT
- CLAY
- TILL
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- NOSAMPLE

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Tolna flight area from March 15-17, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 5.8.3. Boreholes are from the North Dakota State Water Commission Map service download October 2018 and are plotted within 1/4 mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

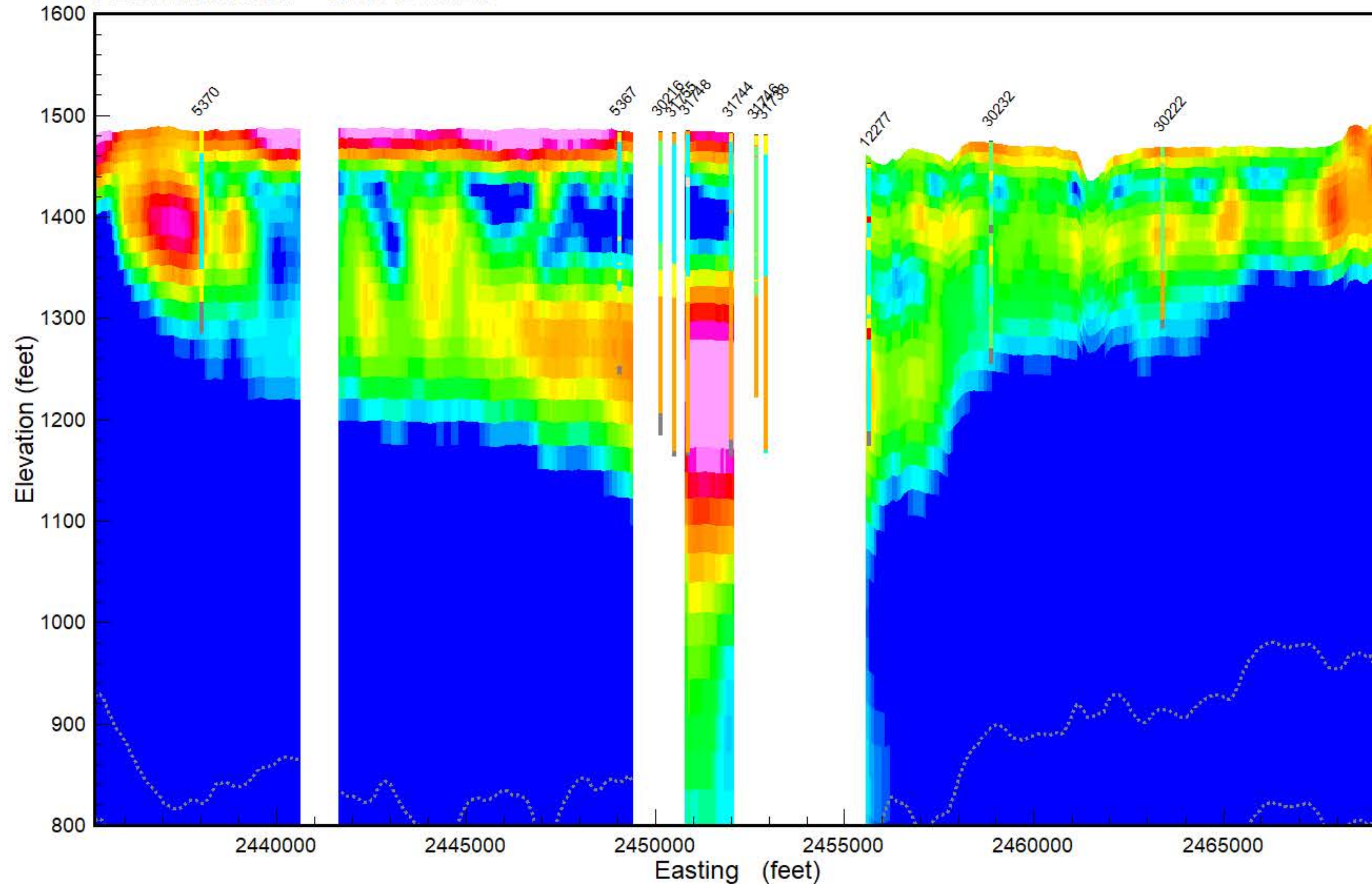




**Flight Path Line L10420**

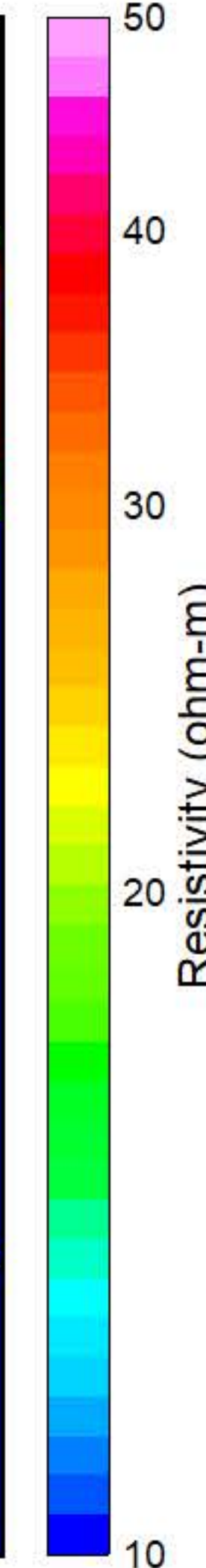
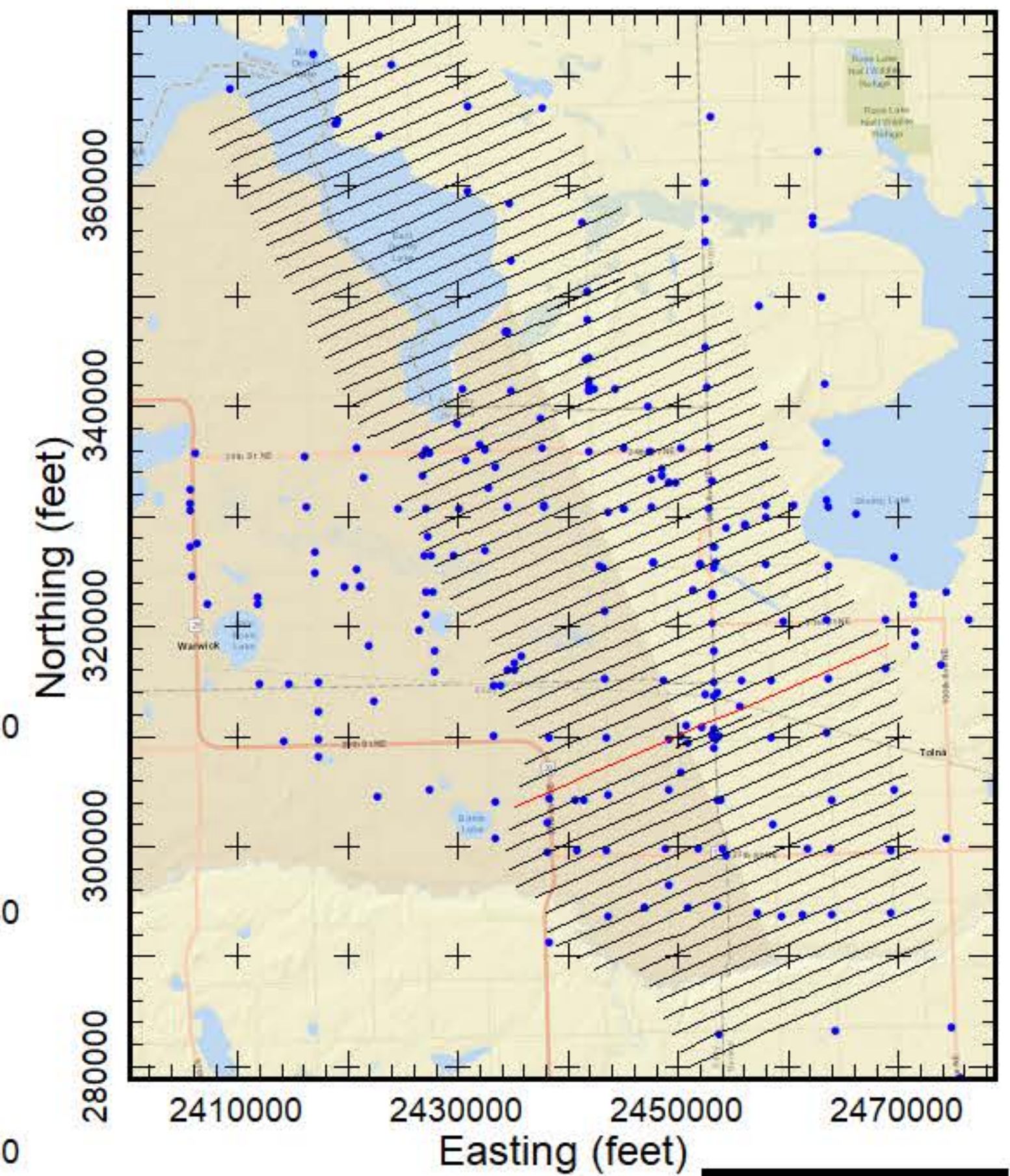


**AEM Inversion Line L10420**



**Flight Area Tolna**

**NORTH DAKOTA STATE WATER COMMISSION**  
900 EAST BOULEVARD AVE, DEPT. 770  
BISMARCK, ND 58505-0850



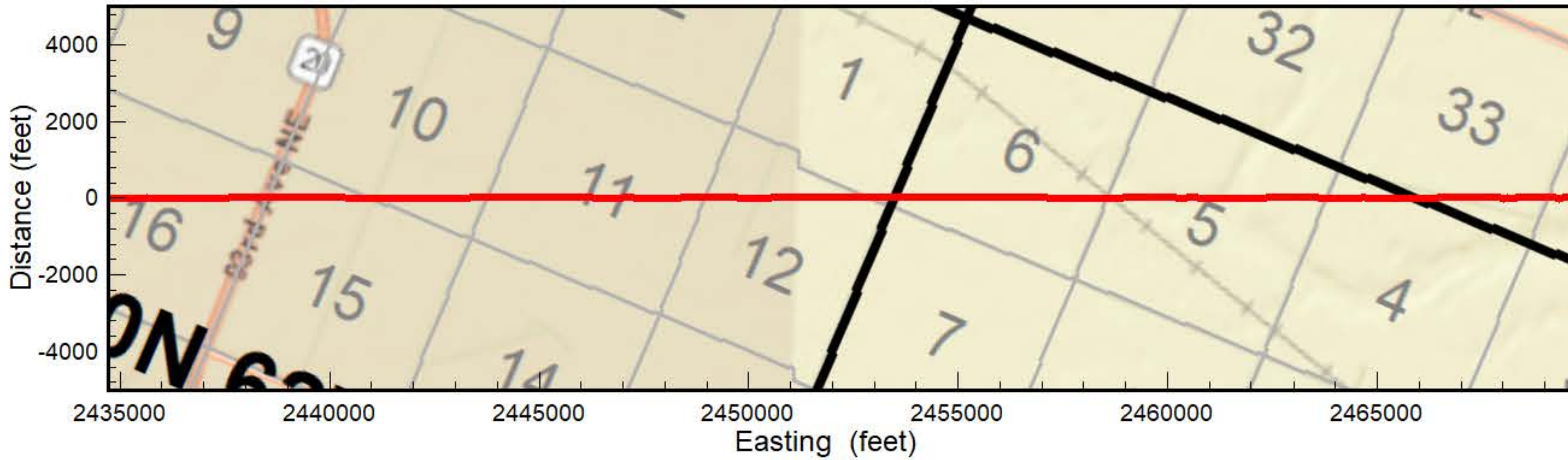
- PEAT
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- COBBLES
- BOULDER
- ROCK
- PRECAMBRIAN
- WEATHERED GRANITE
- SANDSTONE
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- CLAYSTONE
- SHALE
- BEDROCK
- GRAVEL
- SAND & GRAVEL
- SAND
- INTERBEDDED
- SILT
- CLAY
- TILL
- FILL
- TOPSOIL
- NOSAMPLE

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Tolna flight area from March 15-17, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 5.8.3. Boreholes are from the North Dakota State Water Commission Map service download October 2018 and are plotted within 1/4 mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

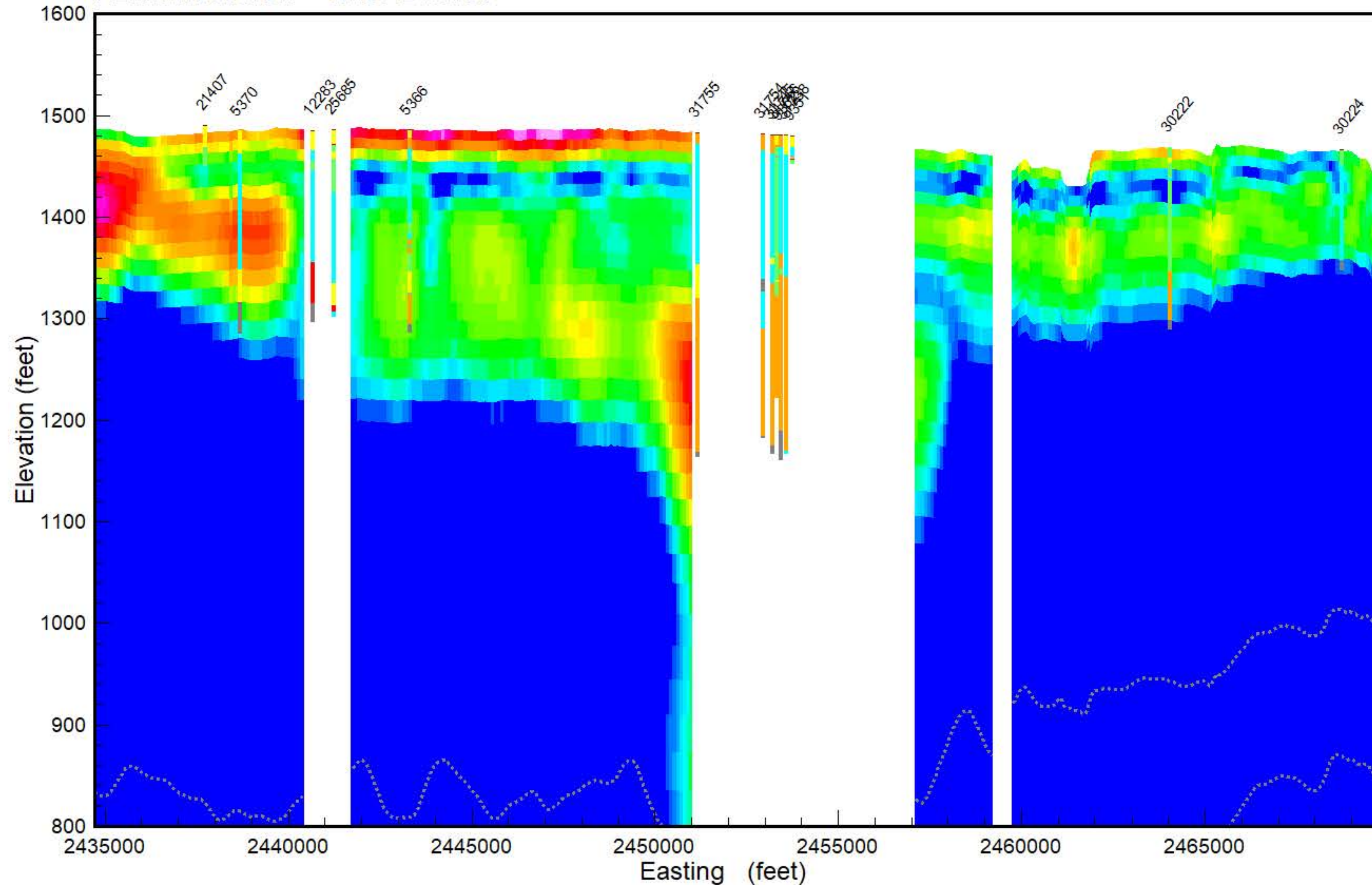




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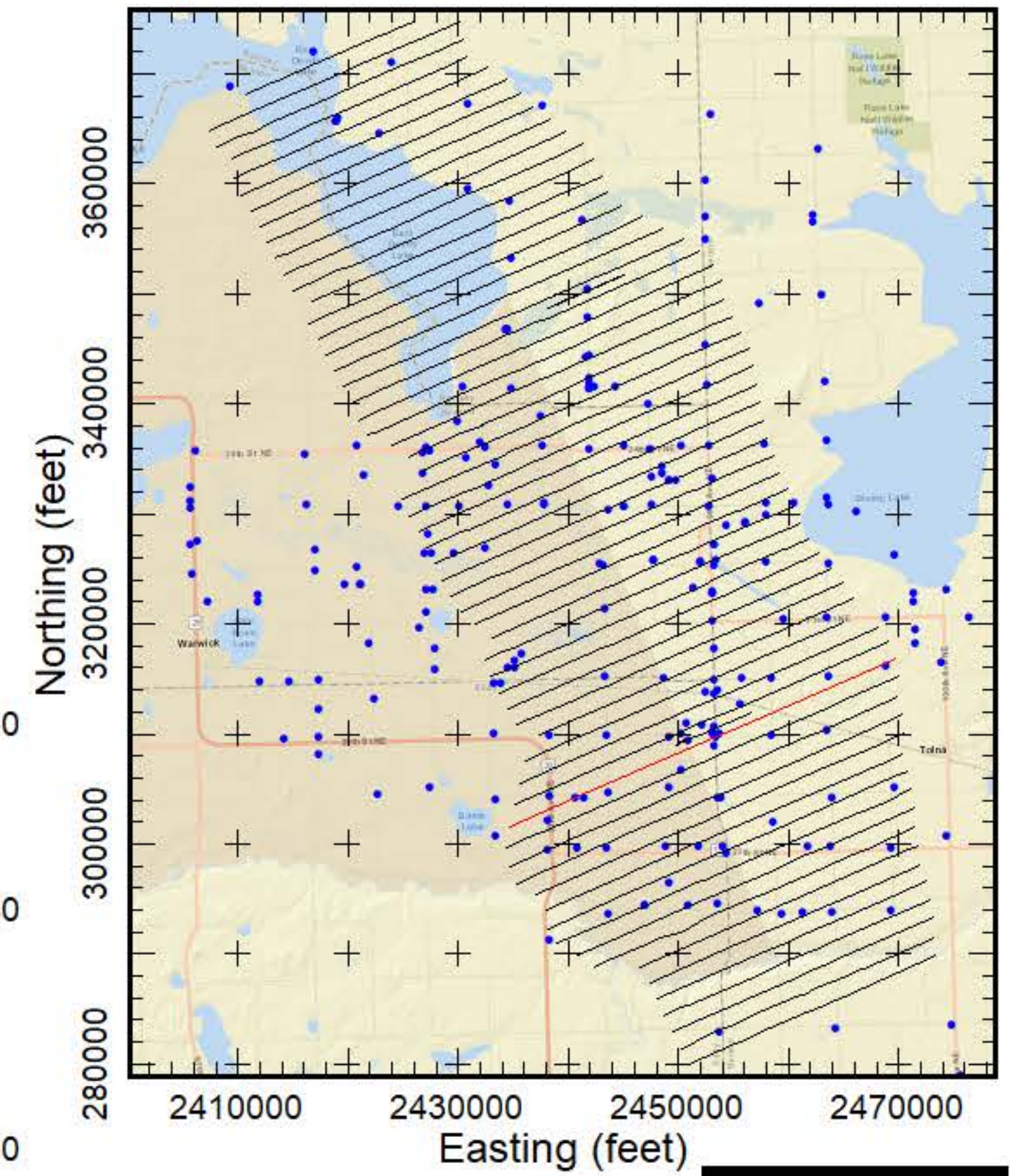


**AEM Inversion Line L10430**



**Flight Area Tolna**

**NORTH DAKOTA STATE WATER COMMISSION**  
 900 EAST BOULEVARD AVE, DEPT. 770  
 BISMARCK, ND 58505-0850



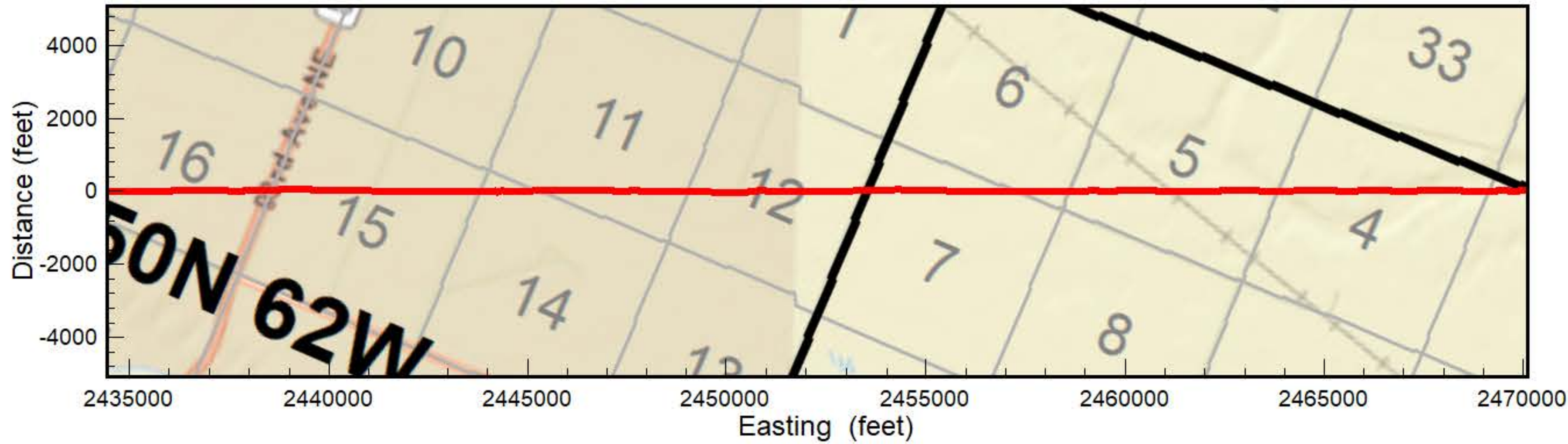
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- COBBLES
- BOULDER
- ROCK
- PRECAMBRIAN
- WEATHERED GRANITE
- SANDSTONE
- LIMESTONE
- SILTSTONE
- CLAYSTONE
- SHALE
- BEDROCK
- GRAVEL
- SAND & GRAVEL
- SAND
- INTERBEDDED
- SILT
- CLAY
- TILL
- FILL
- TOPSOIL
- NOSAMPLE

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Tolna flight area from March 15-17, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 5.8.3. Boreholes are from the North Dakota State Water Commission Map service download October 2018 and are plotted within 1/4 mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

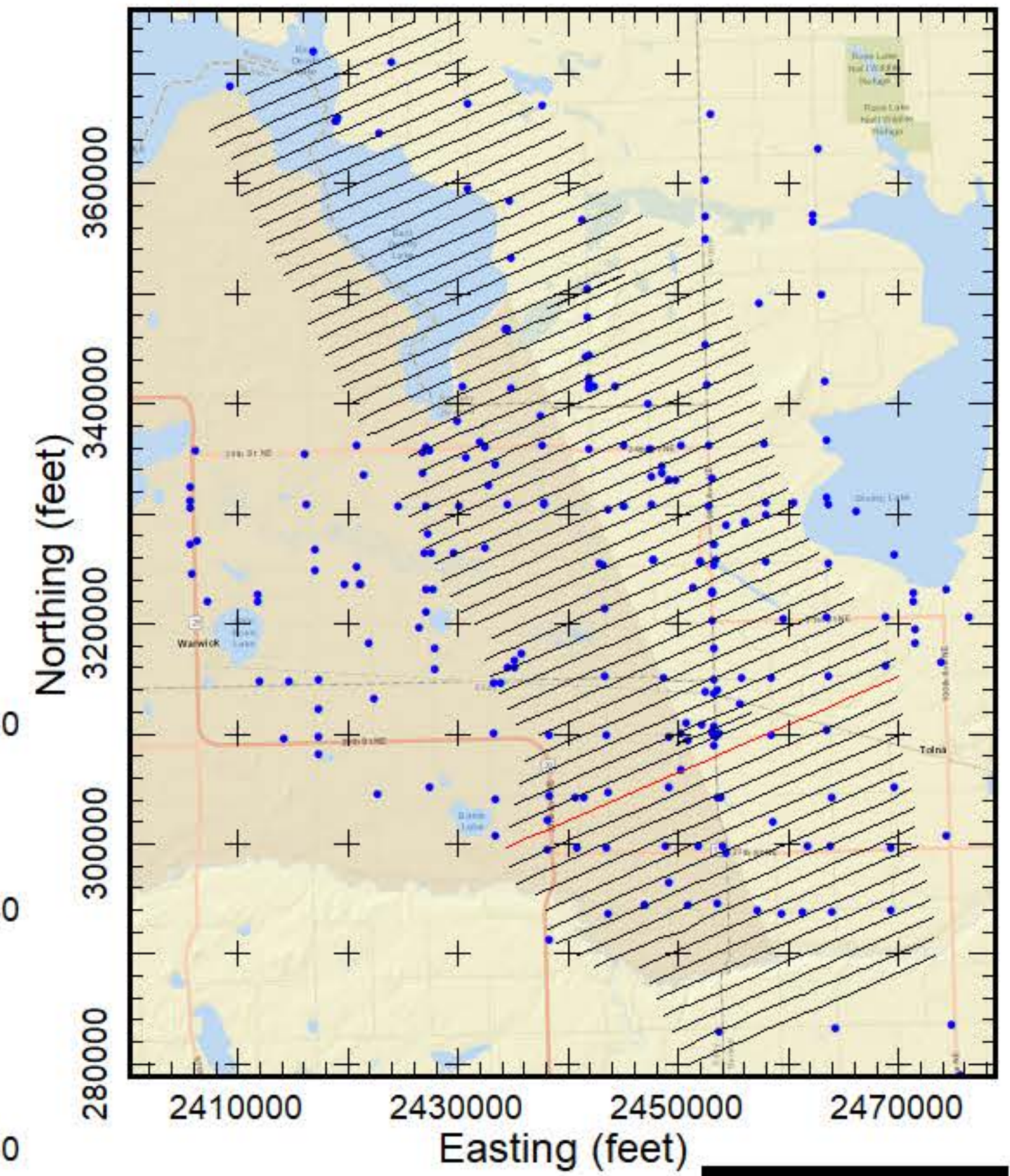




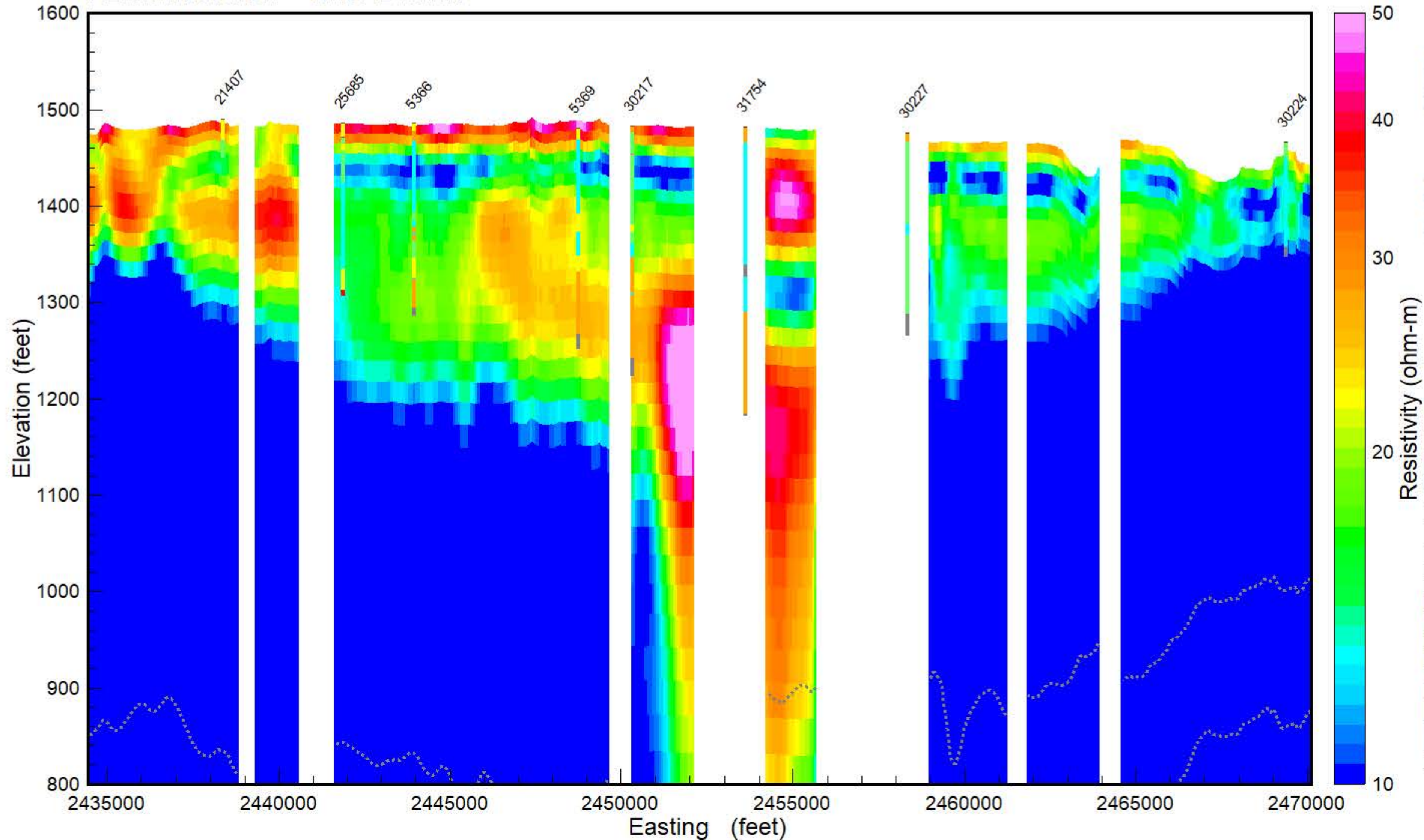
**Flight Path Line L10440**



**Flight Area Tolna**



**AEM Inversion Line L10440**



Resistivity (ohm-m)

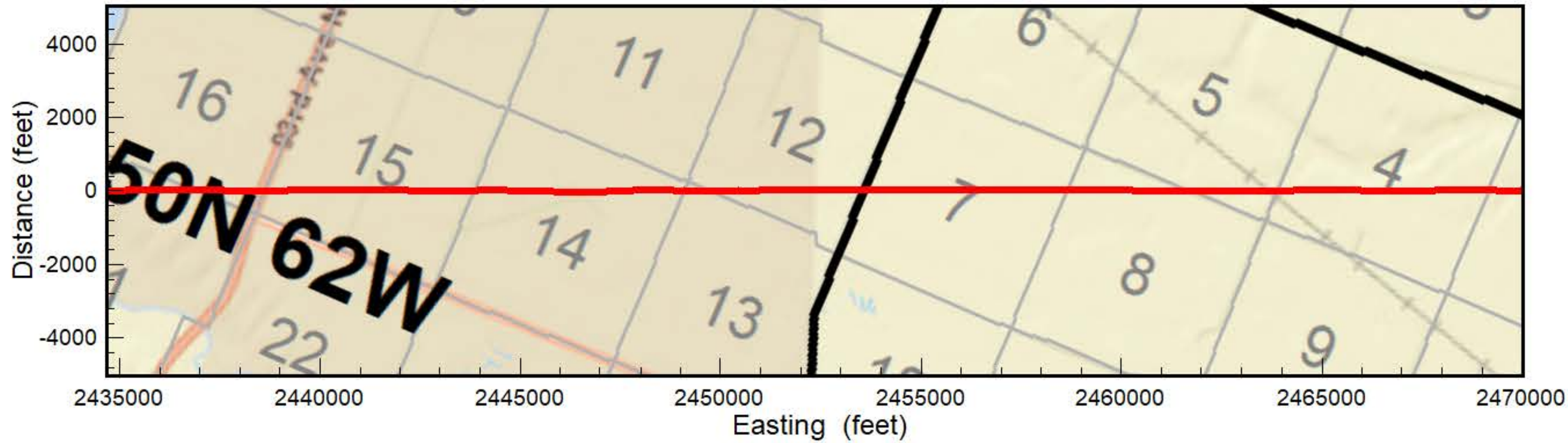
- PEAT
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- COBBLES
- BOULDER
- ROCK
- PRECAMBRIAN
- WEATHERED GRANITE
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- LIMESTONE
- SILTSTONE
- CLAYSTONE
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- SAND & GRAVEL
- SAND
- INTERBEDDED
- SILT
- CLAY
- TILL
- FILL
- TOPSOIL
- NOSAMPLE

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Tolna flight area from March 15-17, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 5.8.3. Boreholes are from the North Dakota State Water Commission Map service download October 2018 and are plotted within 1/4 mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

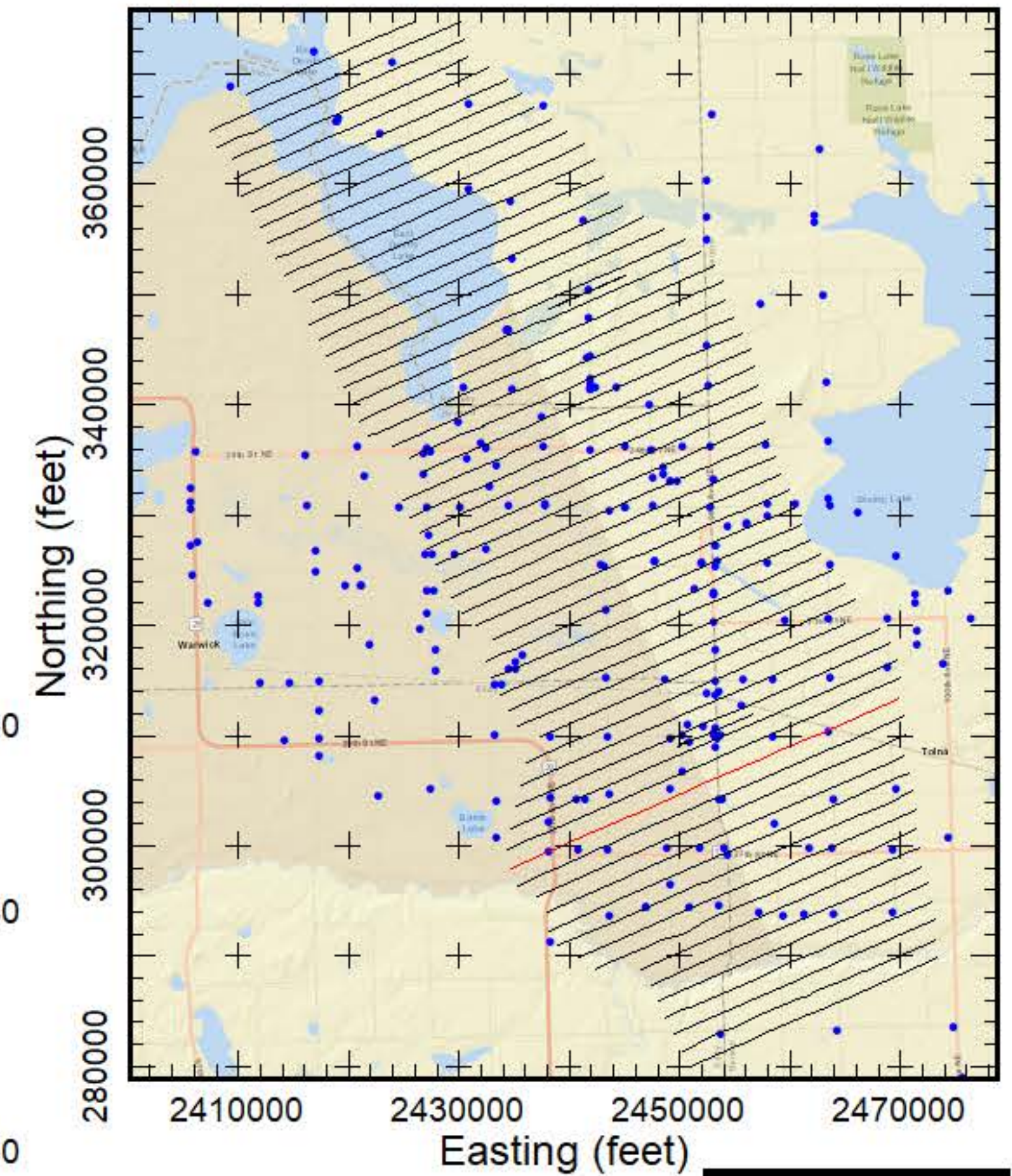




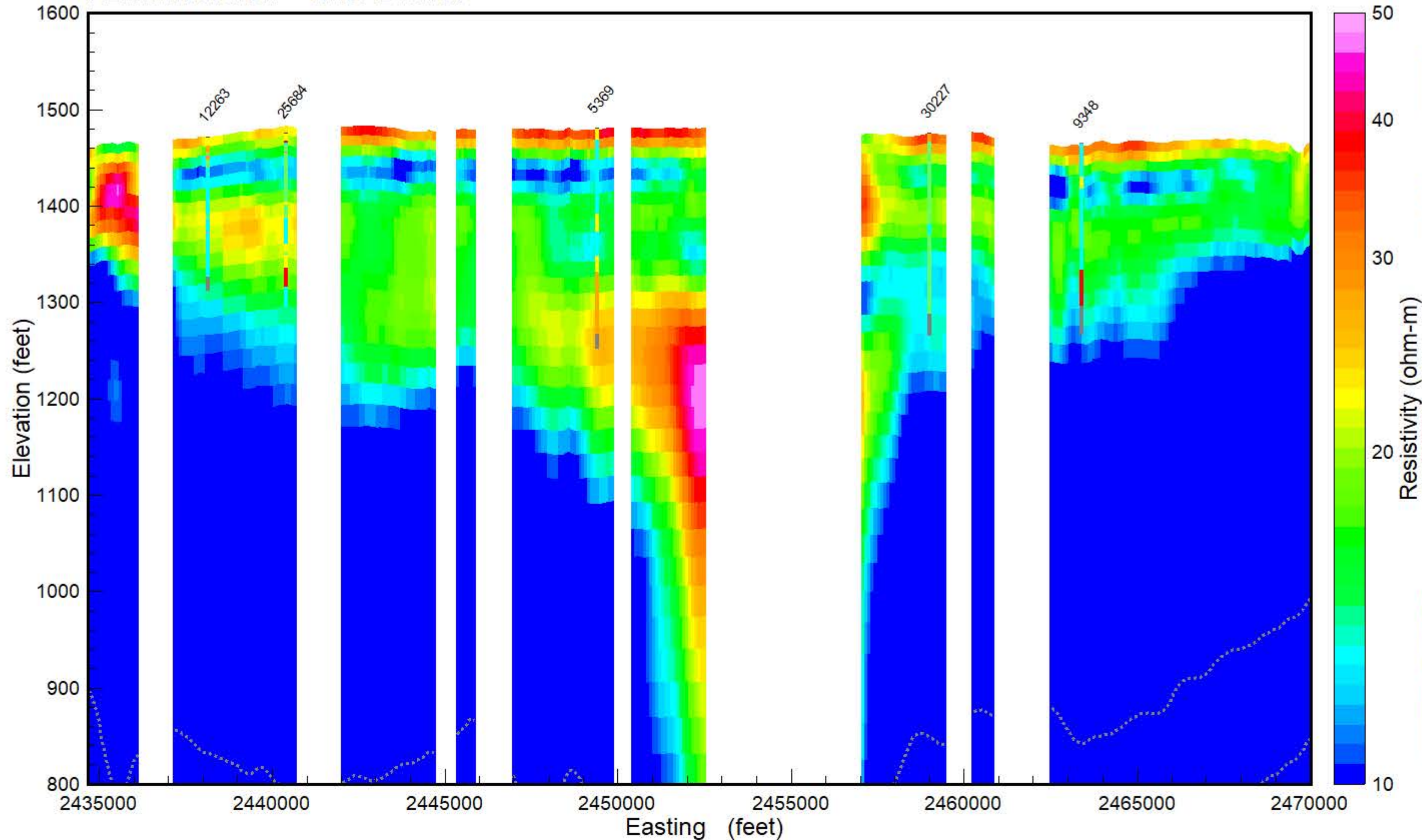
**Flight Path Line L10450**



**Flight Area Tolna**



**AEM Inversion Line L10450**



**GEOTECH**

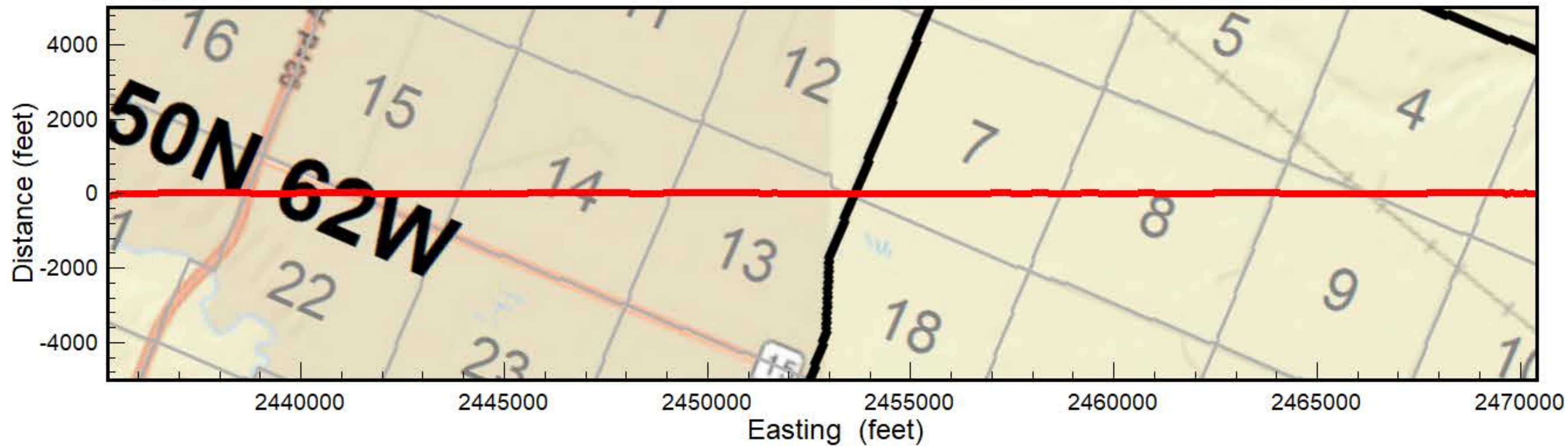
Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Tolna flight area from March 15-17, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 5.8.3. Boreholes are from the North Dakota State Water Commission Map service download October 2018 and are plotted within 1/4 mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

**AGF**  
 Aqua Geo Frameworks

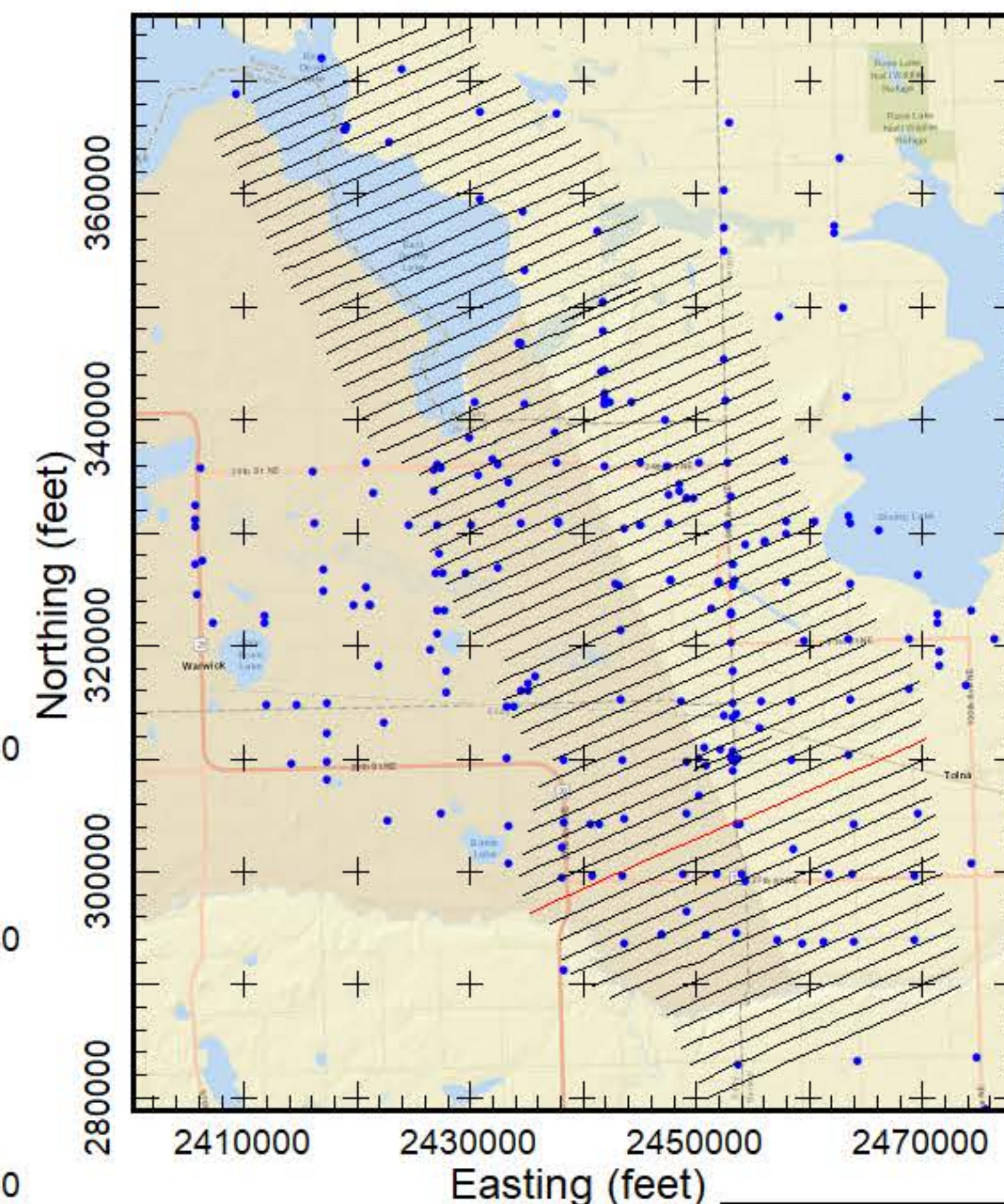
PEAT
LIGNITE
COBBLES
BOULDER
ROCK
PRECAMBRIAN
WEATHERED GRANITE
SANDSTONE
LIMESTONE
SILTSTONE
CLAYSTONE
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SILT
CLAY
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FILL
TOPSOIL
NOSAMPLE



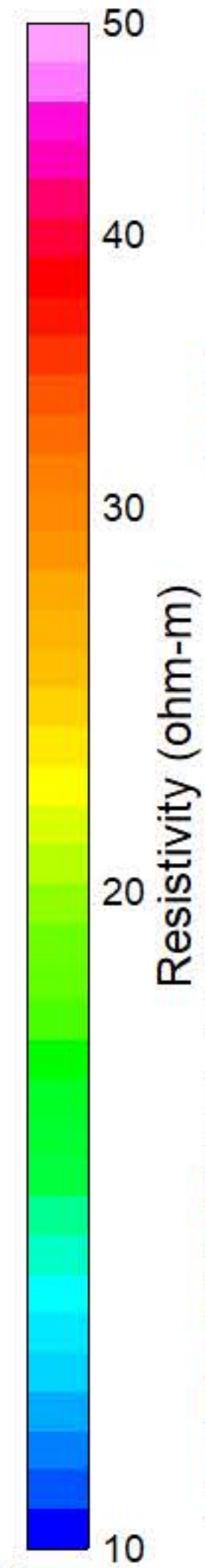
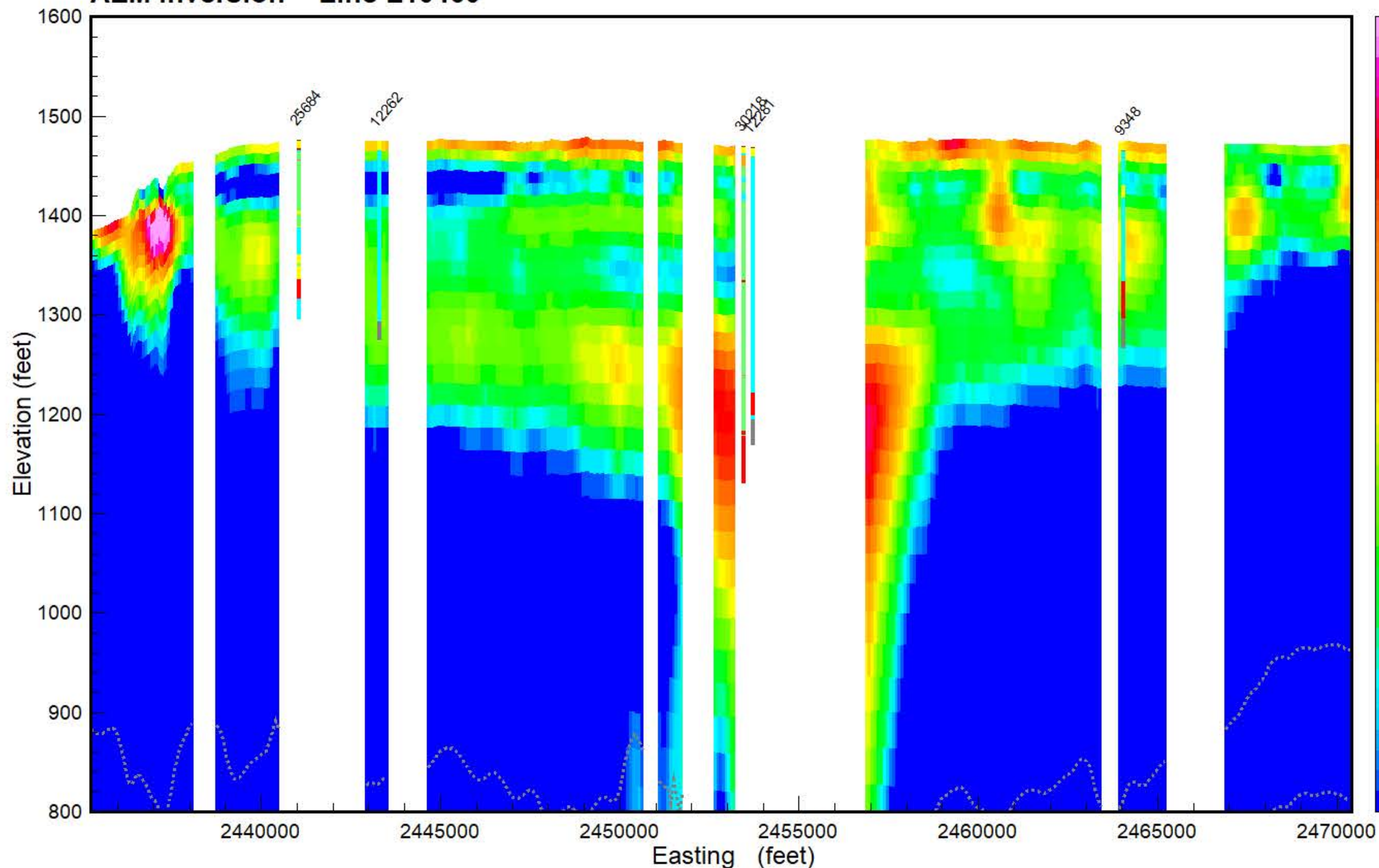
**Flight Path Line L10460**



**Flight Area Tolna**



**AEM Inversion Line L10460**



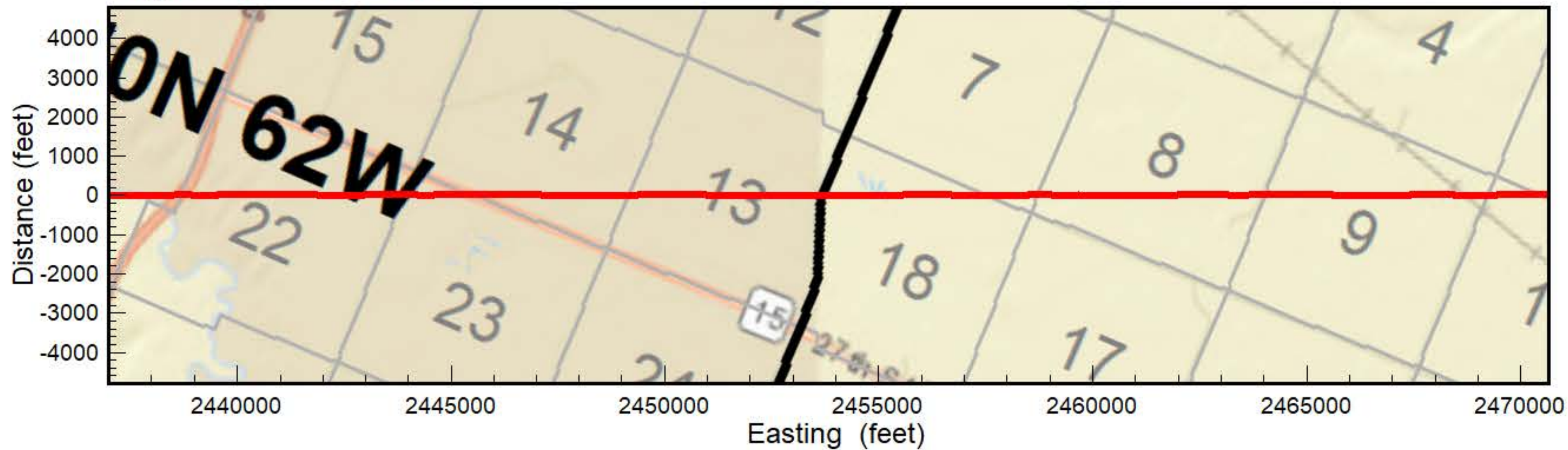
- PEAT
- LIGNITE
- COBBLES
- BOULDER
- ROCK
- PRECAMBRIAN
- WEATHERED GRANITE
- SANDSTONE
- LIMESTONE
- SILTSTONE
- CLAYSTONE
- SHALE
- BEDROCK
- GRAVEL
- SAND & GRAVEL
- SAND
- INTERBEDDED
- SILT
- CLAY
- TILL
- FILL
- TOPSOIL
- NOSAMPLE

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Tolna flight area from March 15-17, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 5.8.3. Boreholes are from the North Dakota State Water Commission Map service download October 2018 and are plotted within 1/4 mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

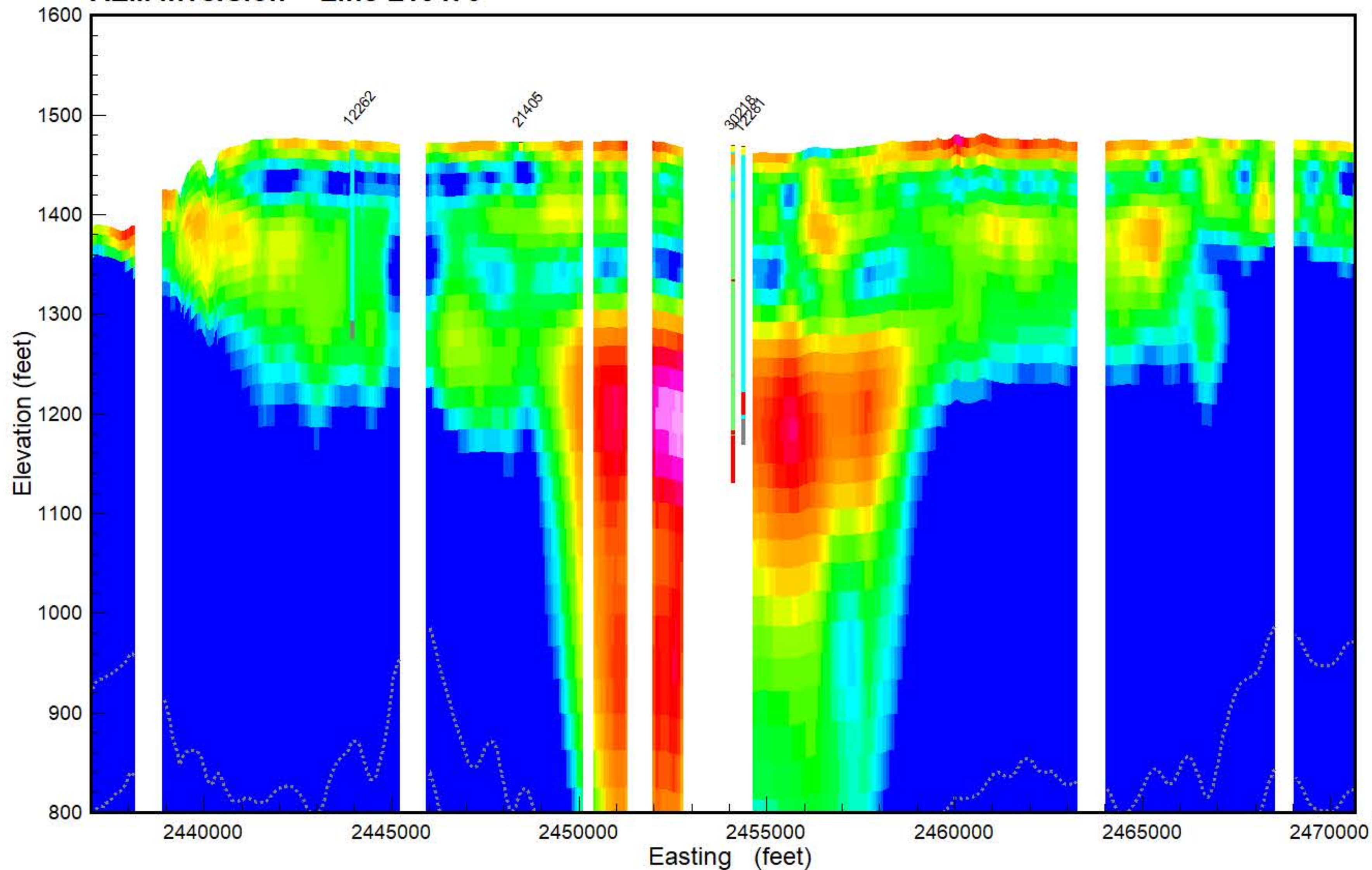




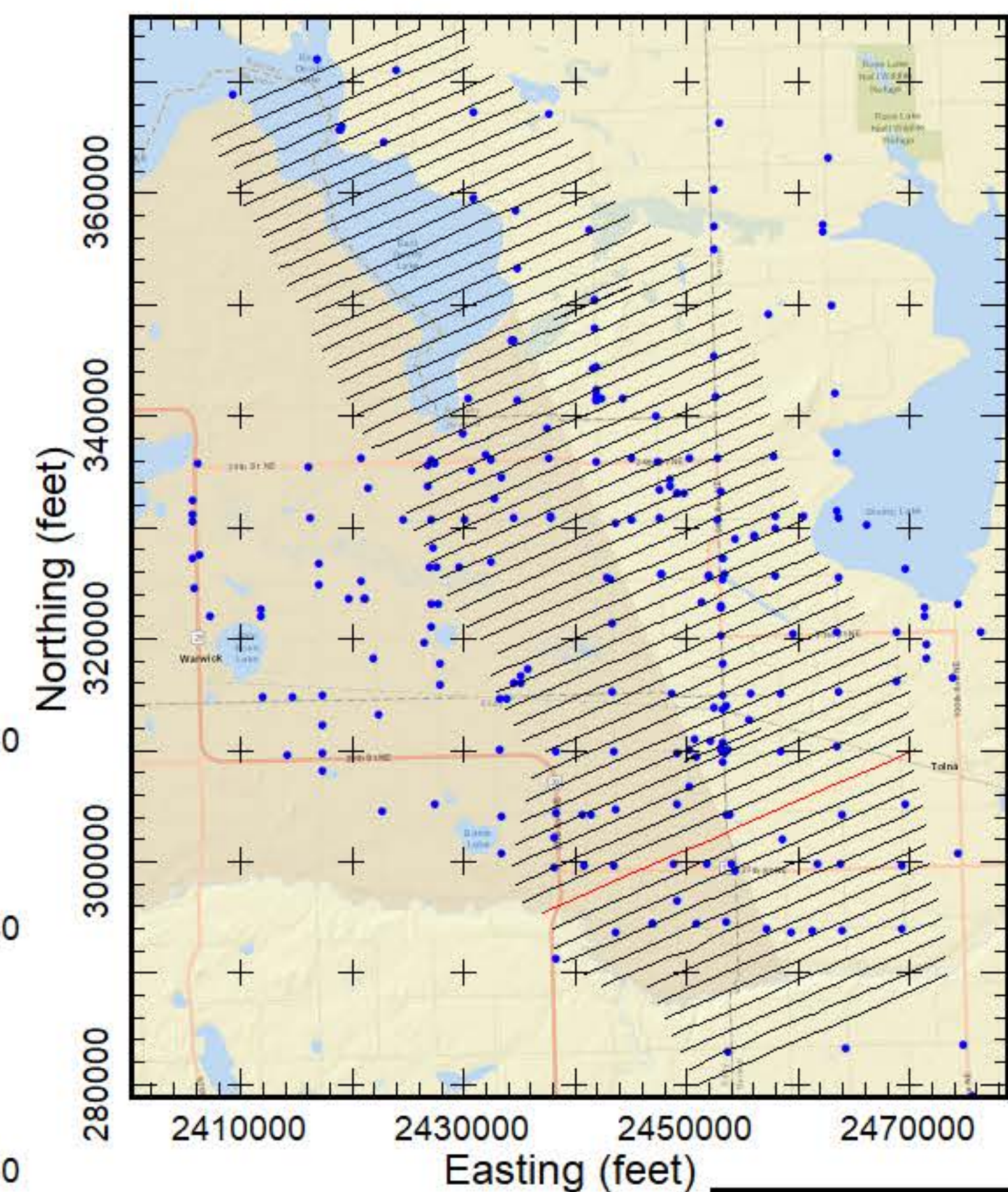
**Flight Path Line L10470**



**AEM Inversion Line L10470**



**Flight Area Tolna**  
 NORTH DAKOTA STATE WATER COMMISSION  
 900 EAST BOULEVARD AVE, DEPT. 770  
 BISMARCK, ND 58505-0850



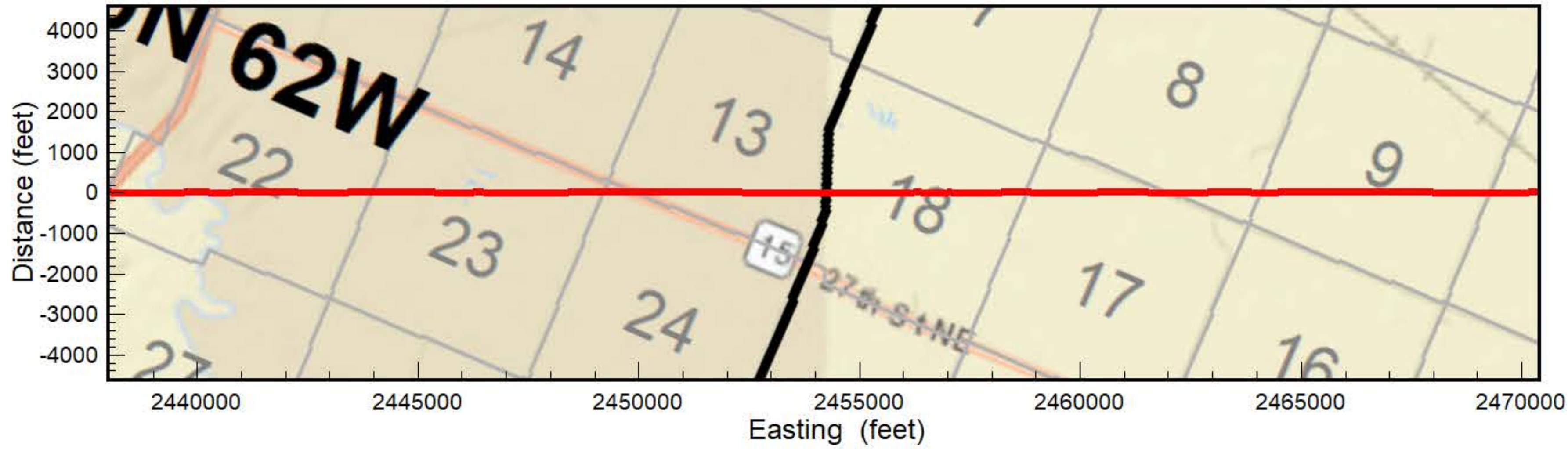
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- LIGNITE
- COBBLES
- BOULDER
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- SILTSTONE
- CLAYSTONE
- SHALE
- BEDROCK
- GRAVEL
- SAND & GRAVEL
- SAND
- INTERBEDDED
- SILT
- CLAY
- TILL
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- TOPSOIL
- NOSAMPLE

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Tolna flight area from March 15-17, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 5.8.3. Boreholes are from the North Dakota State Water Commission Map service download October 2018 and are plotted within 1/4 mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

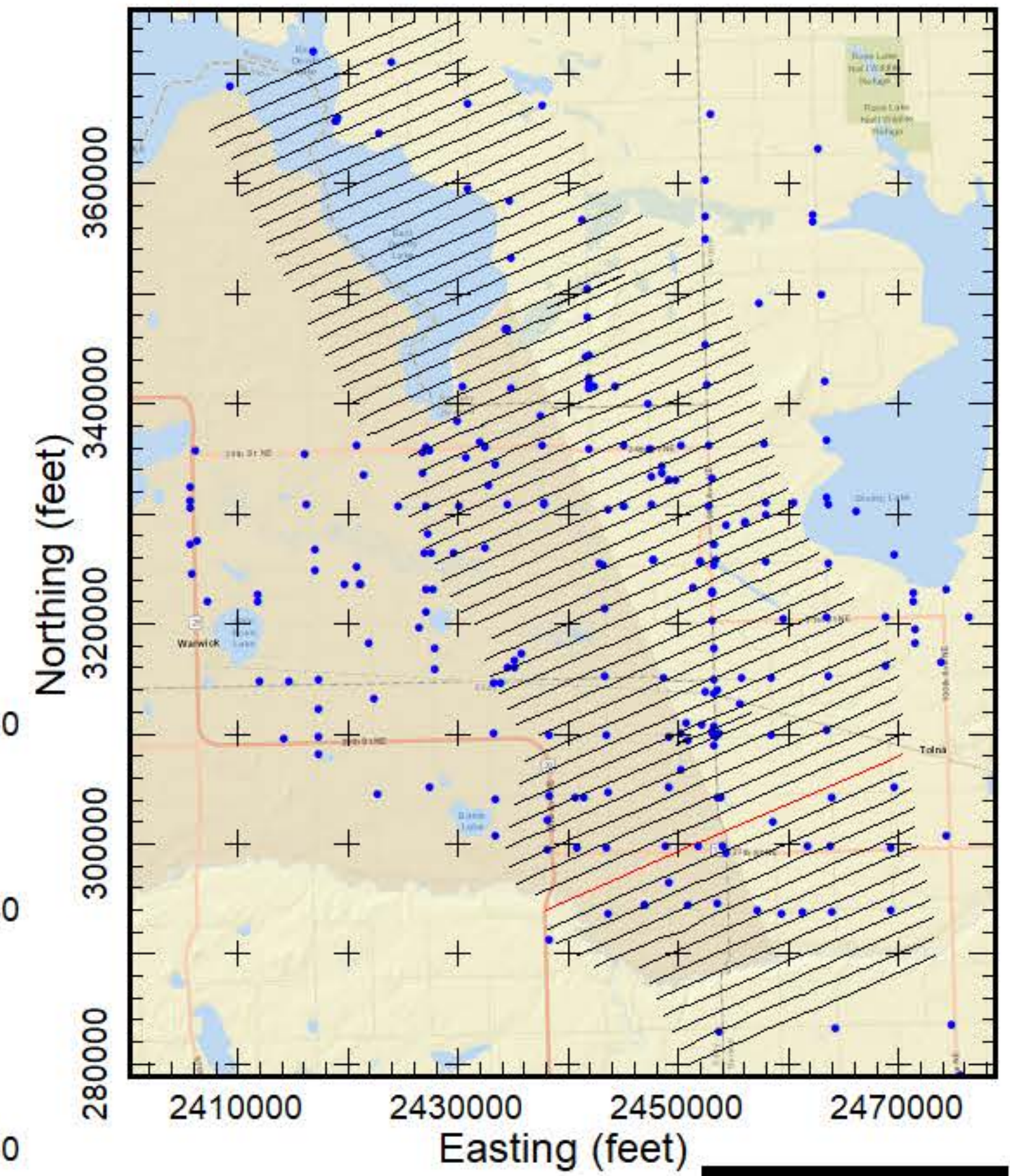




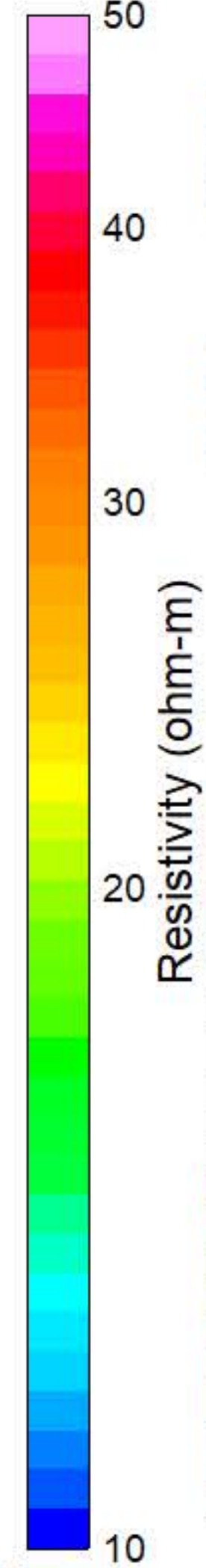
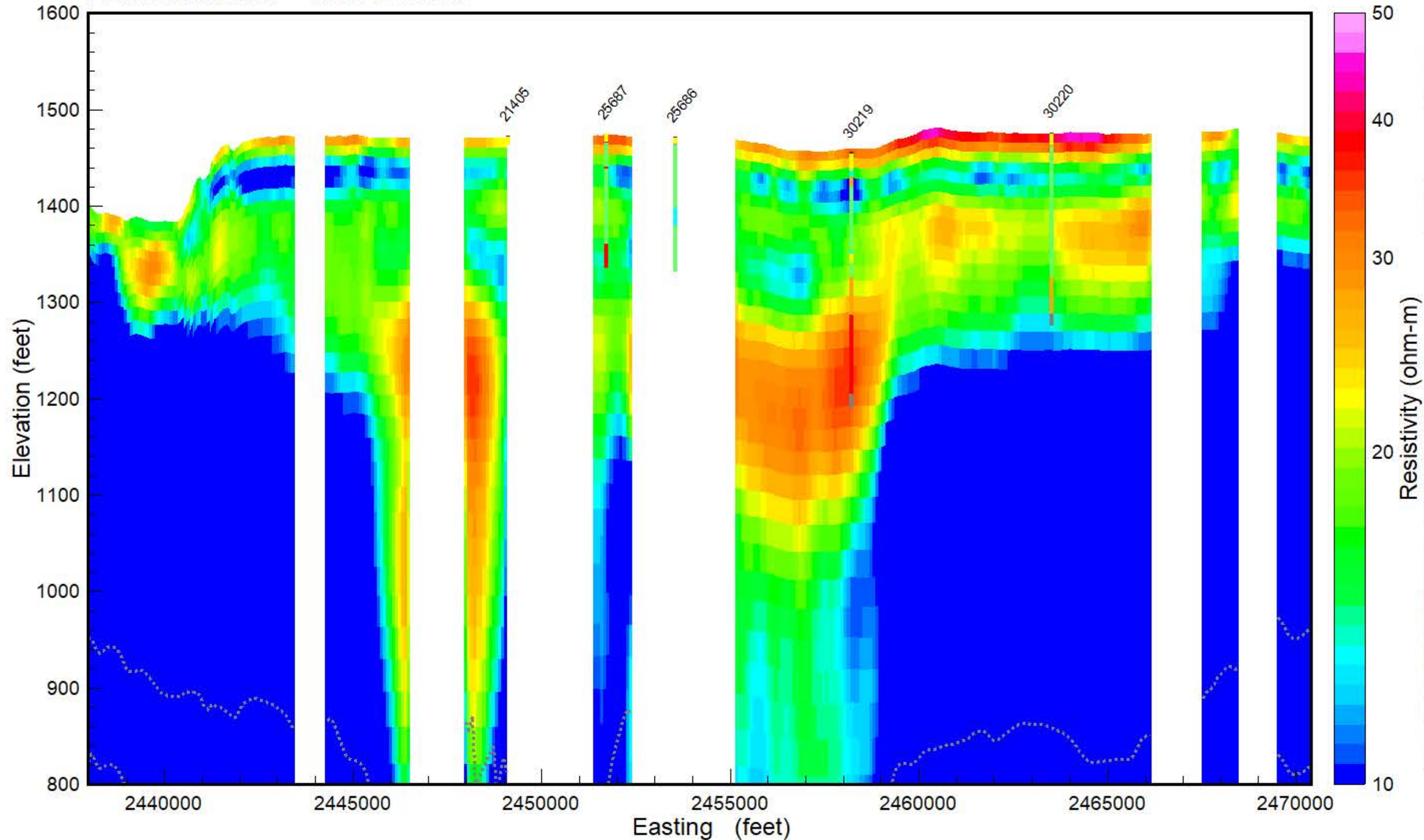
**Flight Path Line L10480**



**Flight Area Tolna**



**AEM Inversion Line L10480**



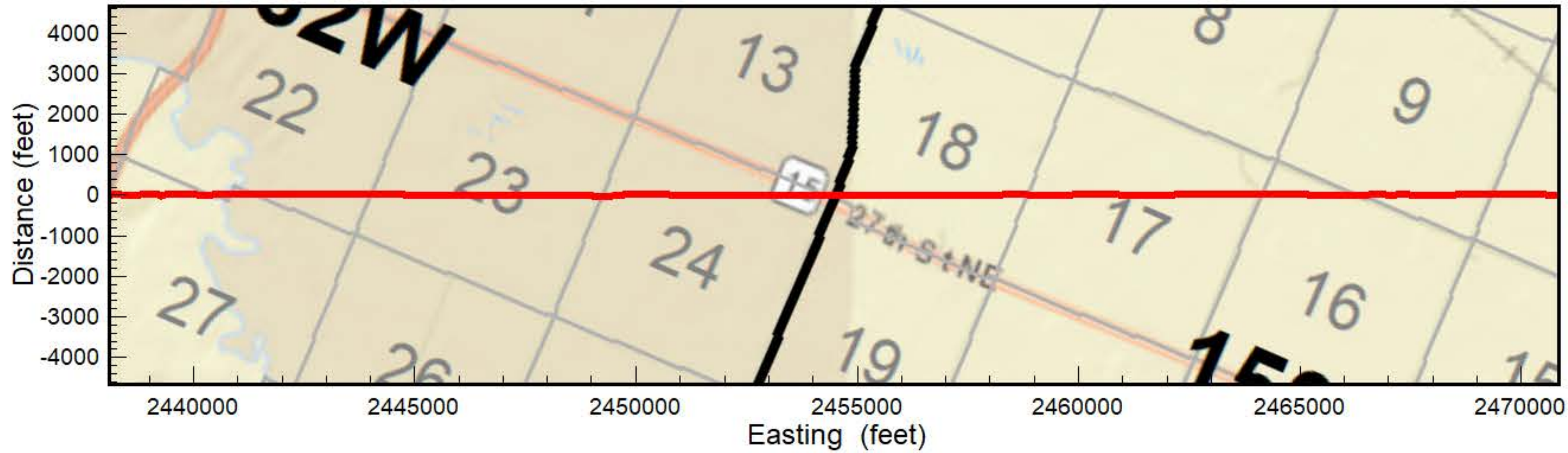
**GEOTECH**

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Tolna flight area from March 15-17, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 5.8.3. Boreholes are from the North Dakota State Water Commission Map service download October 2018 and are plotted within 1/4 mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

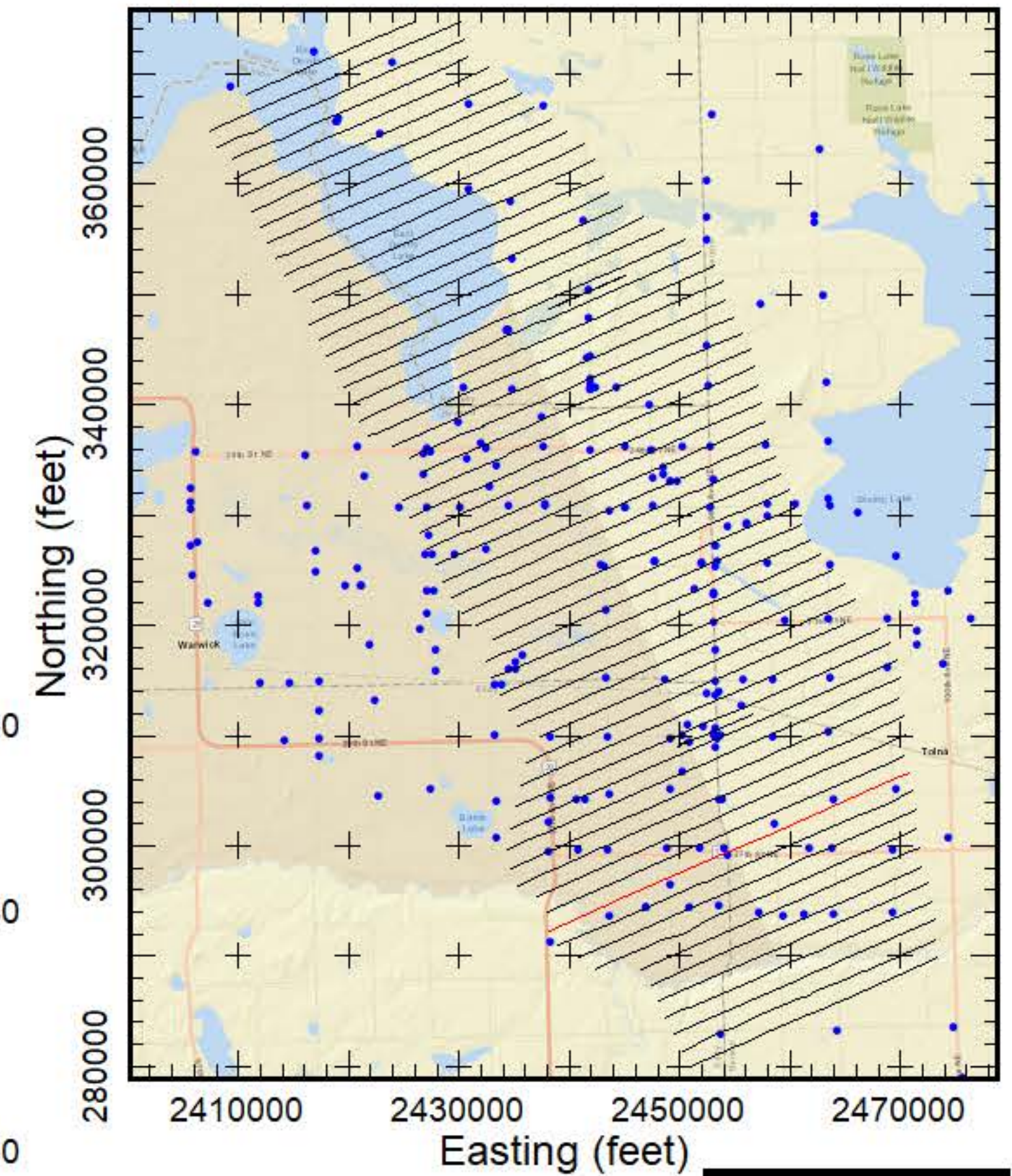
- PEAT
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- GRAVEL
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- SAND
- INTERBEDDED
- SILT
- CLAY
- TILL
- FILL
- TOPSOIL
- NOSAMPLE



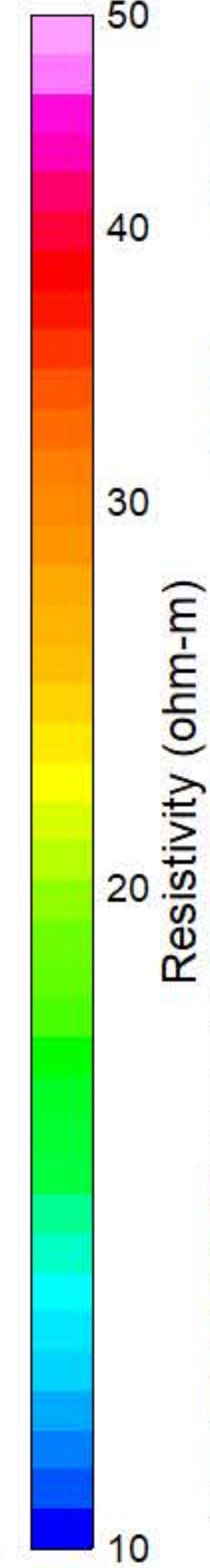
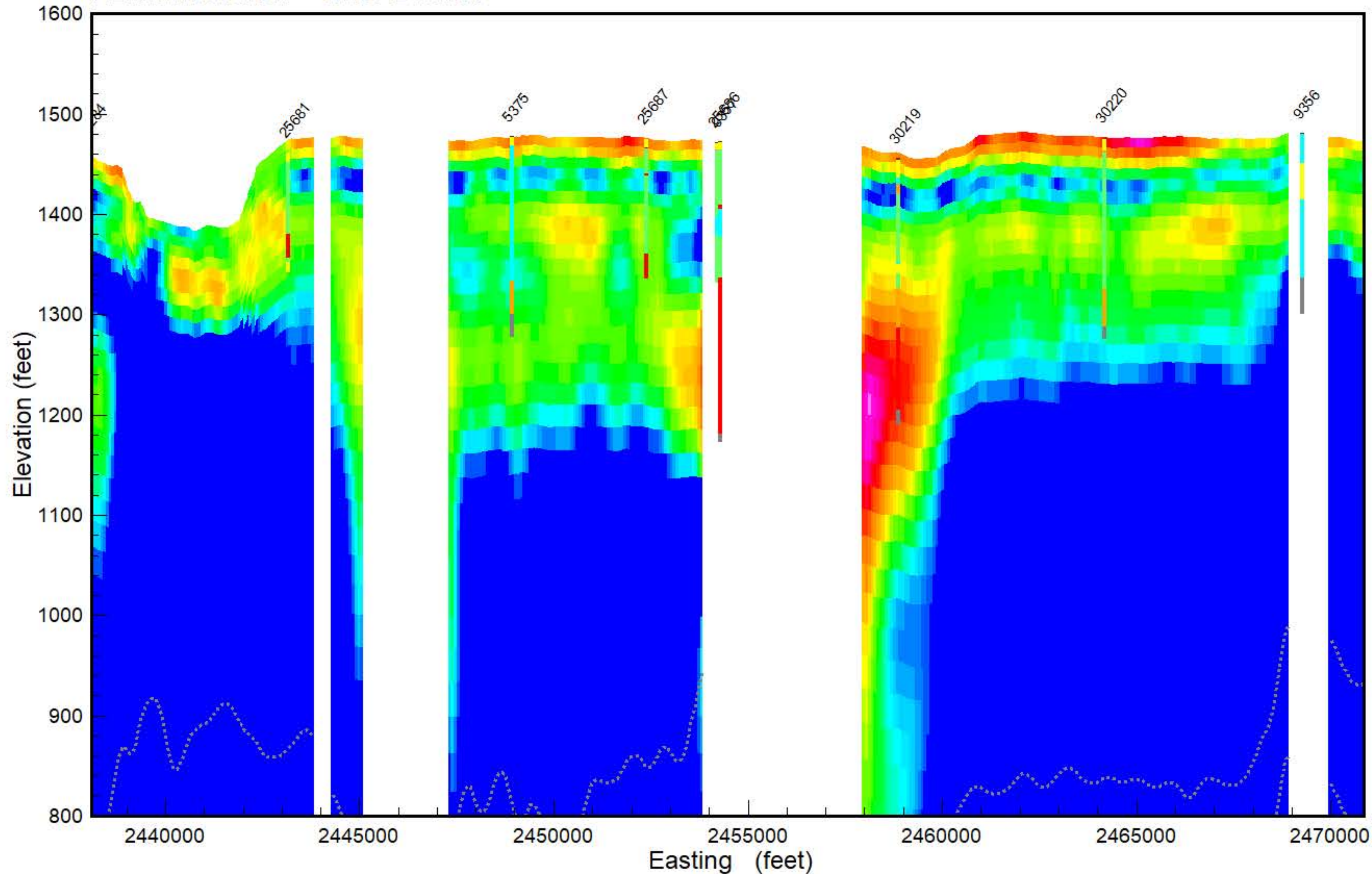
**Flight Path Line L10490**



**Flight Area Tolna**



**AEM Inversion Line L10490**



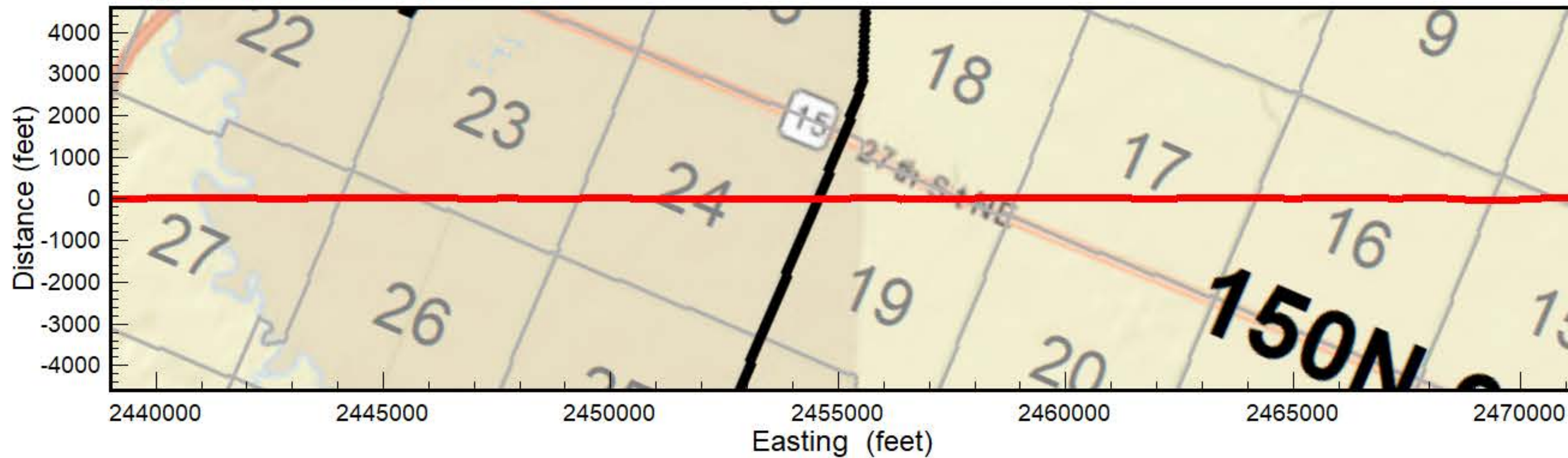
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- LIGNITE
- COBBLES
- BOULDER
- ROCK
- PRECAMBRIAN
- WEATHERED GRANITE
- SANDSTONE
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- SILTSTONE
- CLAYSTONE
- SHALE
- BEDROCK
- GRAVEL
- SAND & GRAVEL
- SAND
- INTERBEDDED
- SILT
- CLAY
- TILL
- FILL
- TOPSOIL
- NOSAMPLE

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Tolna flight area from March 15-17, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 5.8.3. Boreholes are from the North Dakota State Water Commission Map service download October 2018 and are plotted within 1/4 mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

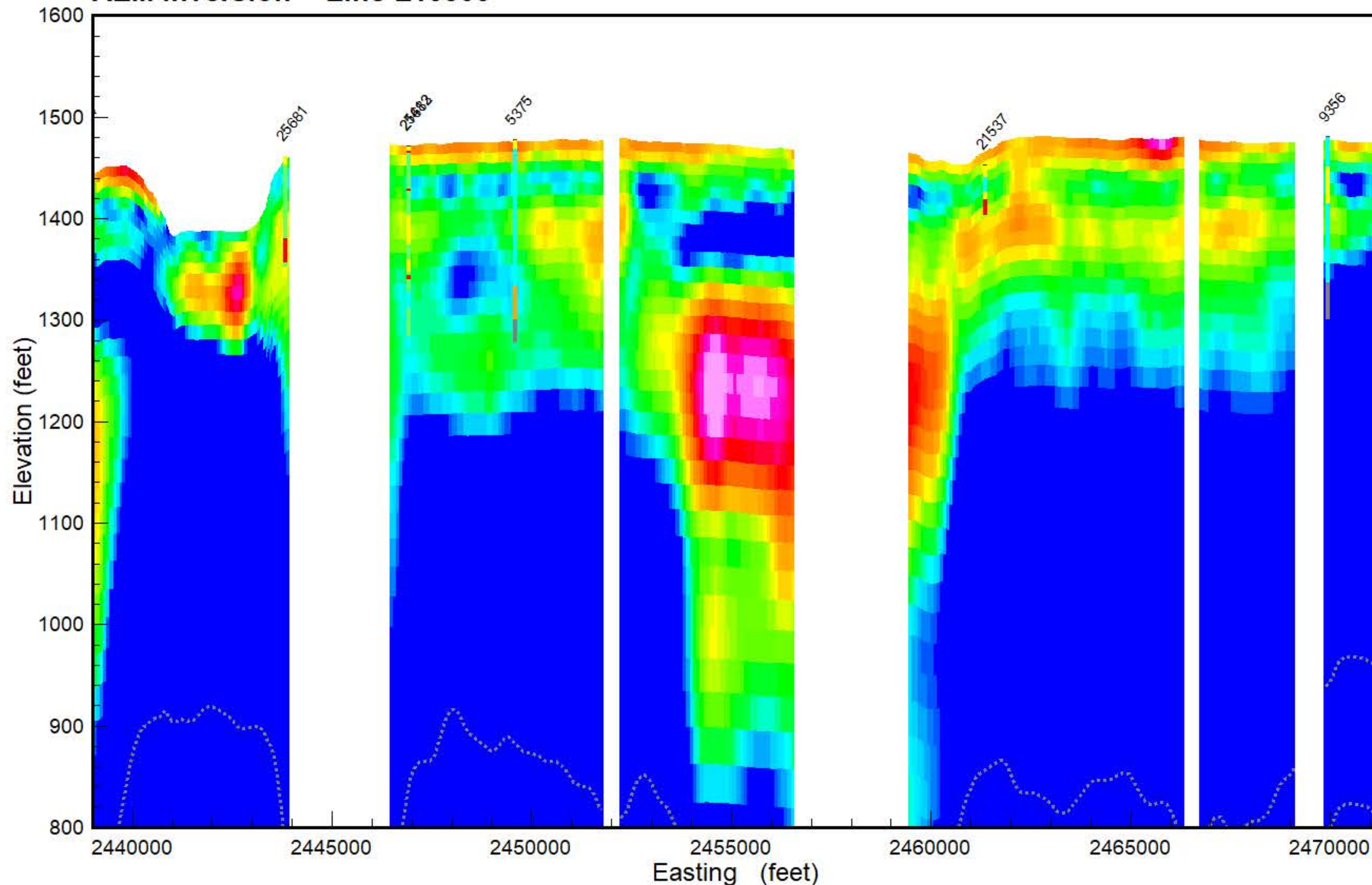




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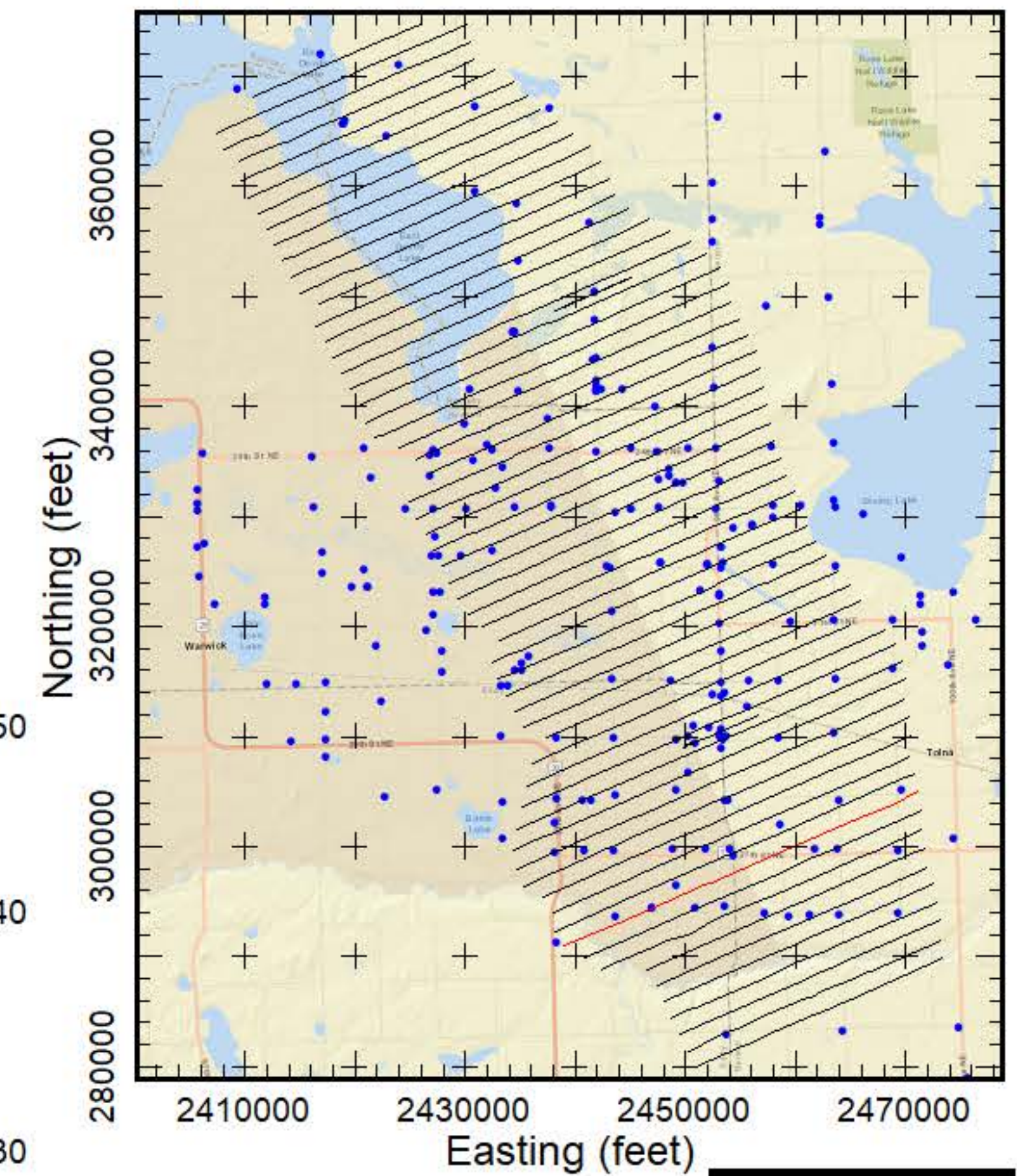


**AEM Inversion Line L10500**



**Flight Area Tolna**

**NORTH DAKOTA STATE WATER COMMISSION**  
 900 EAST BOULEVARD AVE, DEPT. 770  
 BISMARCK, ND 58505-0850



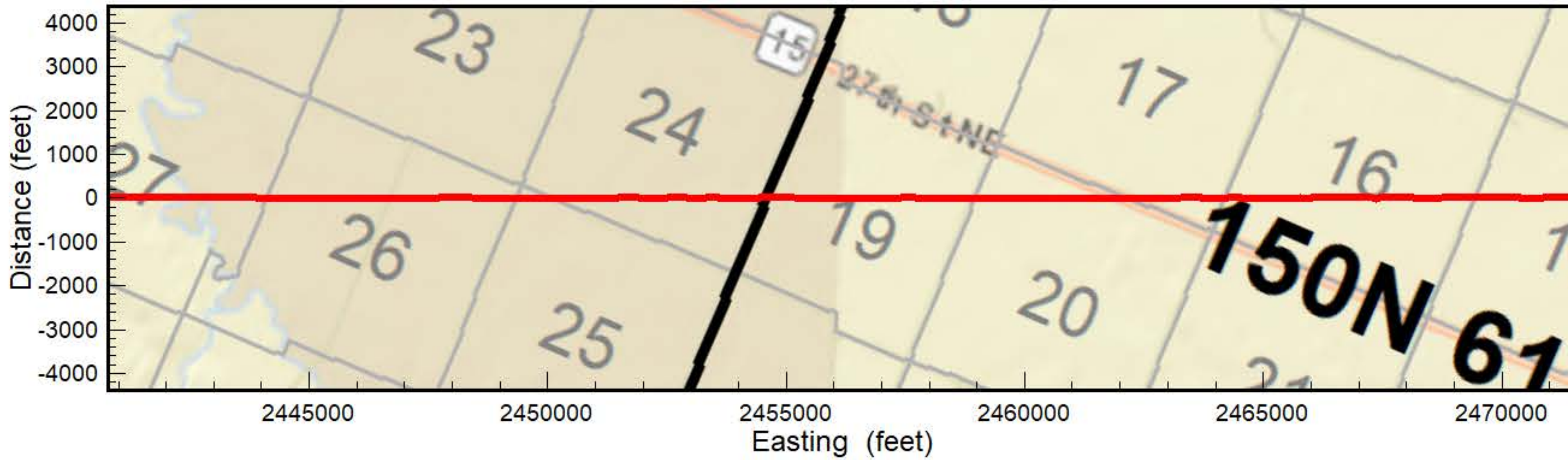
Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Tolna flight area from March 15-17, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 5.8.3. Boreholes are from the North Dakota State Water Commission Map service download October 2018 and are plotted within 1/4 mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua AGF Frameworks, LLC.

- PEAT
- LIGNITE
- COBBLES
- BOULDER
- ROCK
- PRECAMBRIAN
- WEATHERED GRANITE
- SANDSTONE
- LIMESTONE
- SILTSTONE
- CLAYSTONE
- SHALE
- BEDROCK
- GRAVEL
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- SILT
- CLAY
- TILL
- FILL
- TOPSOIL
- NOSAMPLE

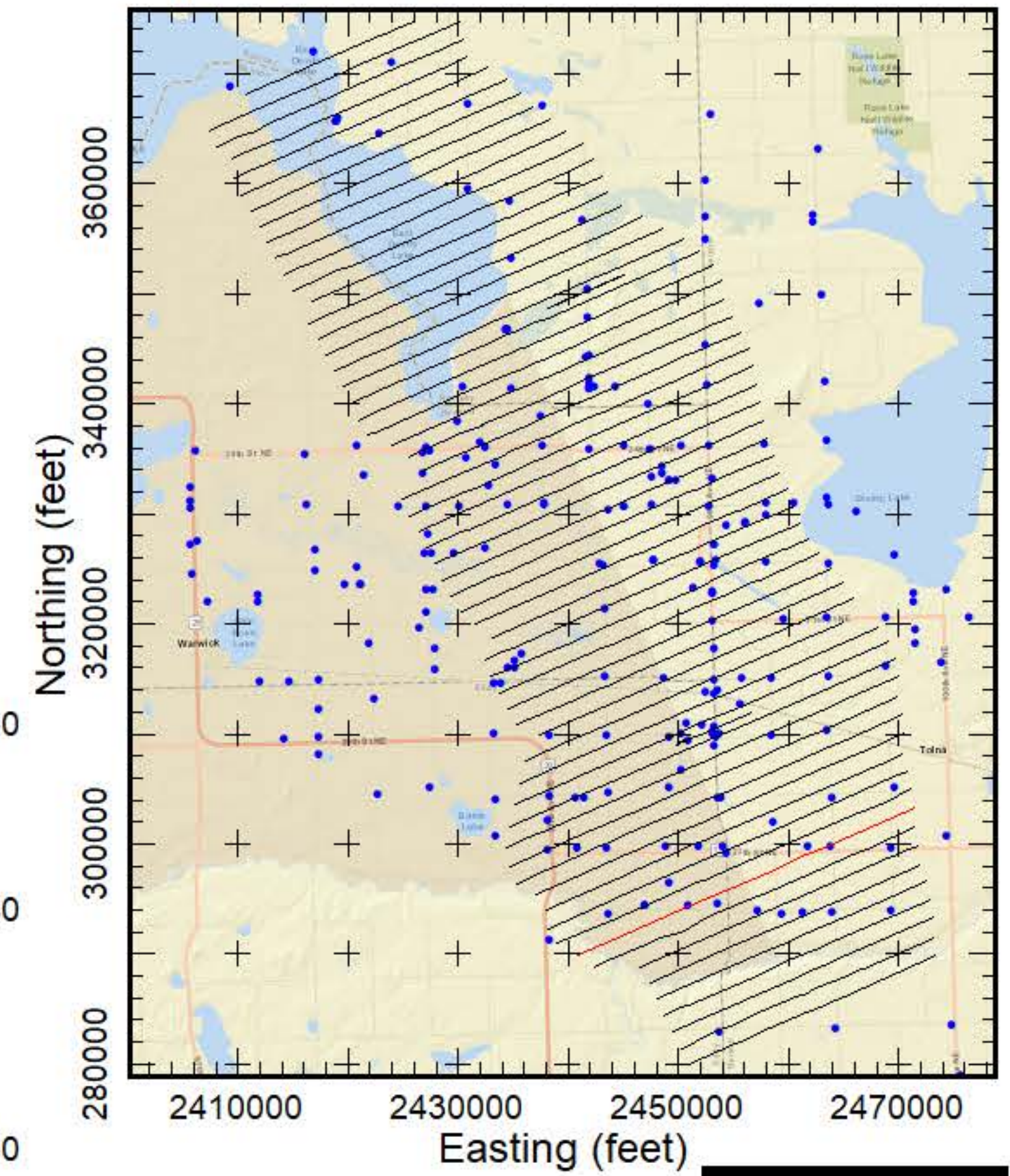




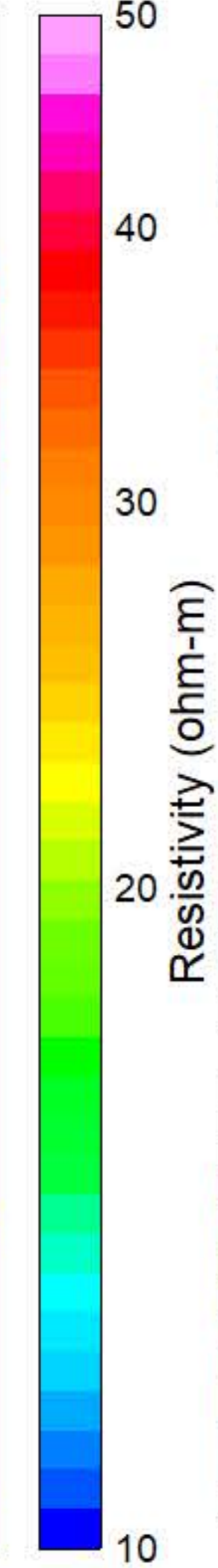
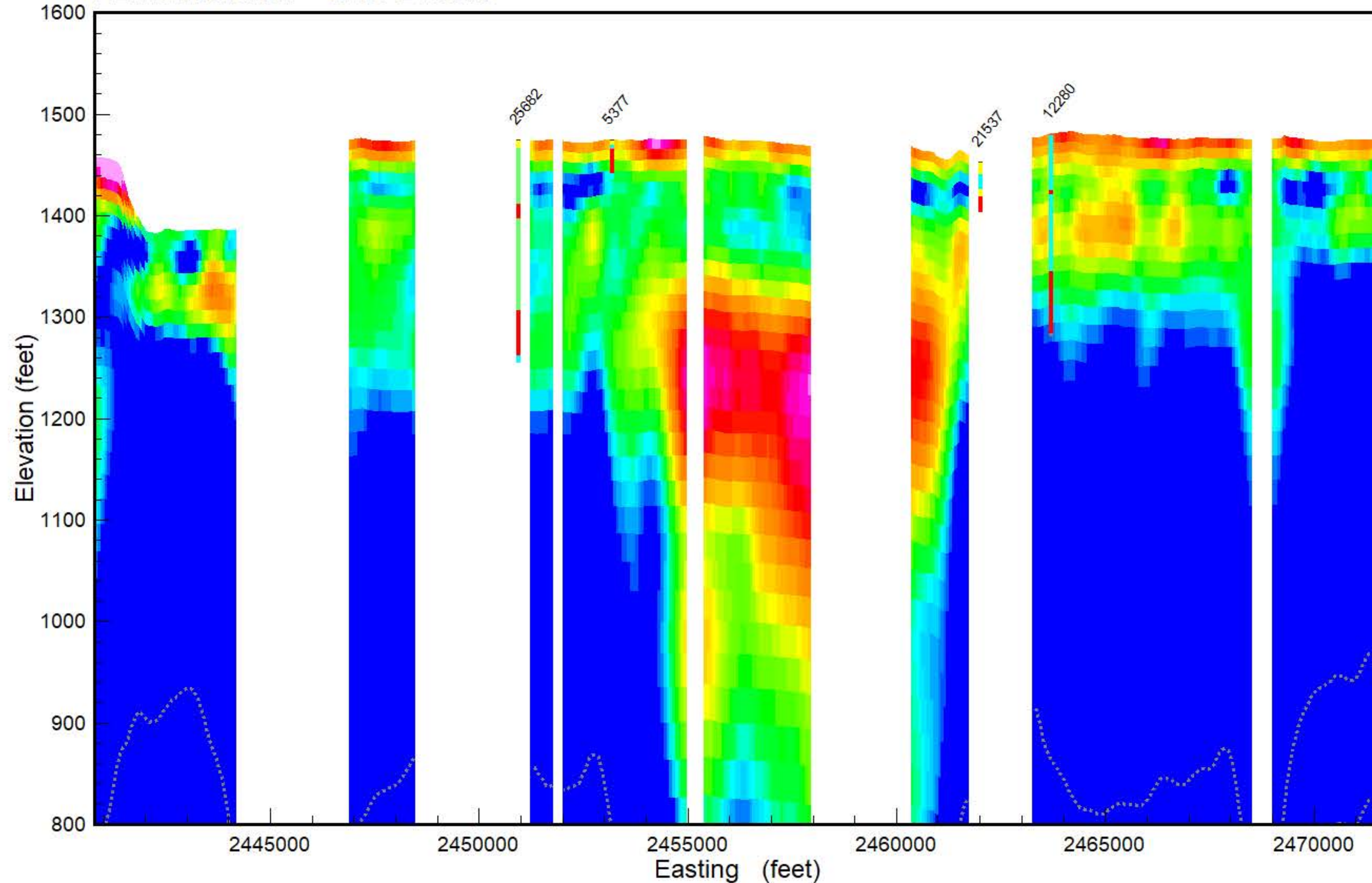
**Flight Path Line L10510**



**Flight Area Tolna**



**AEM Inversion Line L10510**

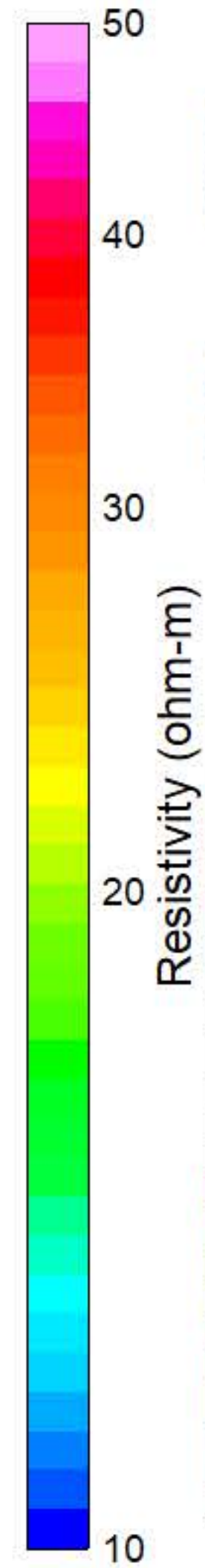
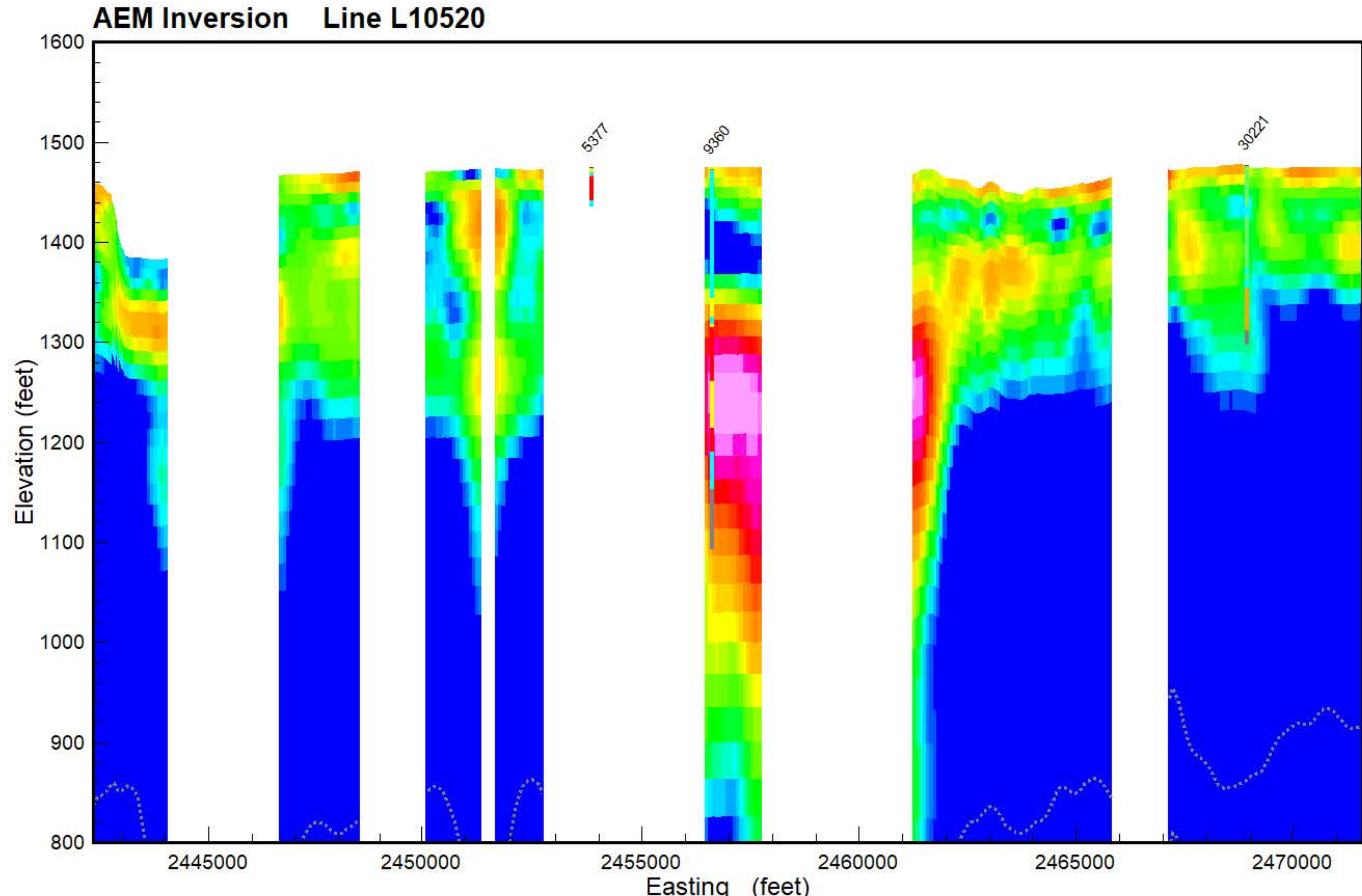
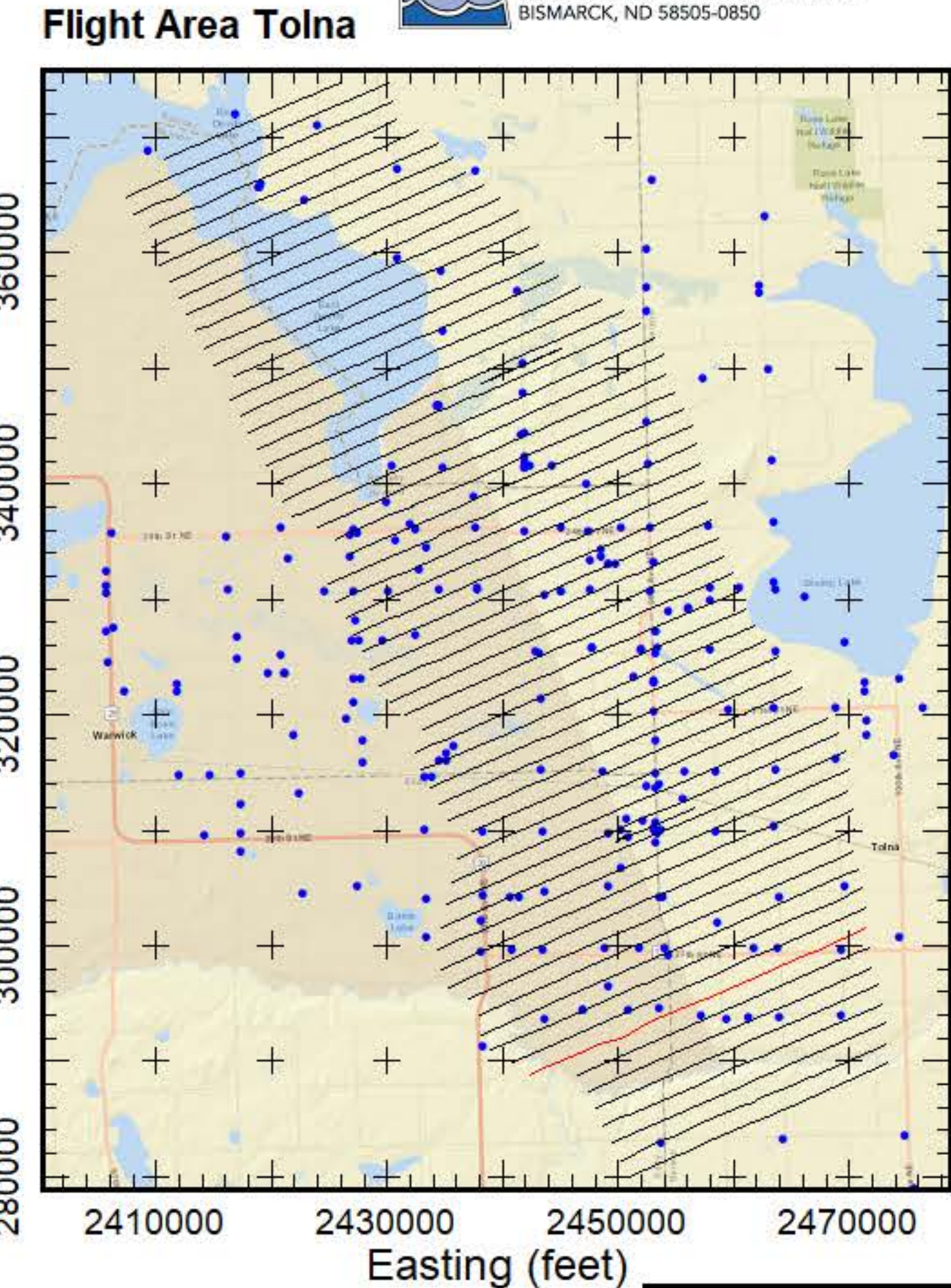
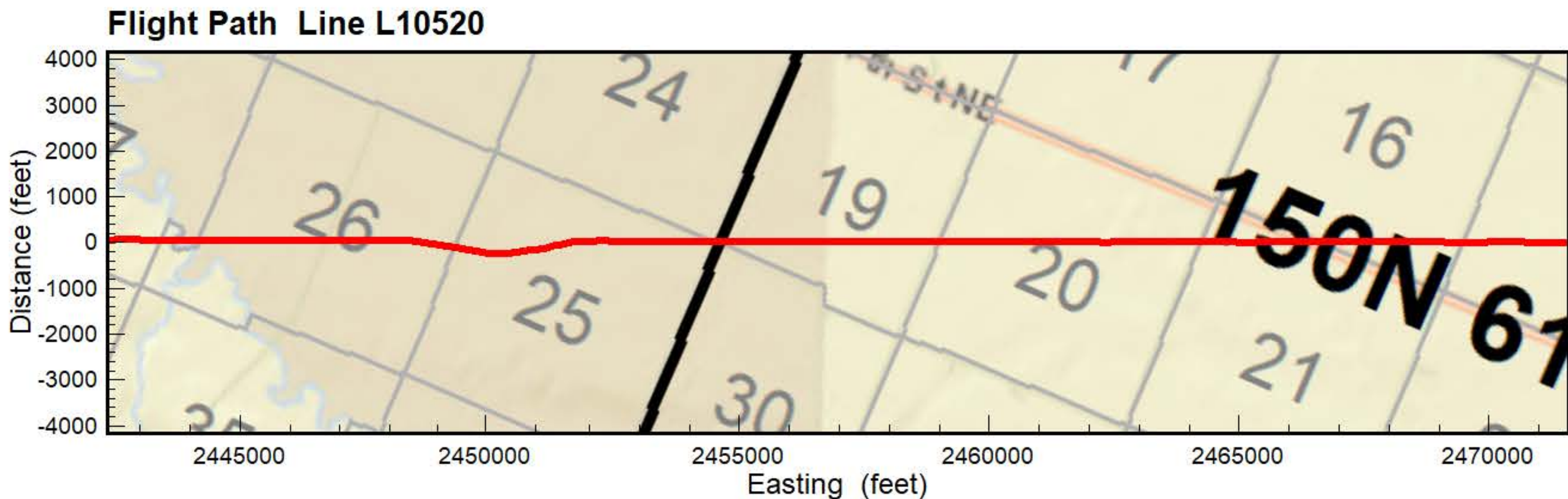


- PEAT
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- COBBLES
- BOULDER
- ROCK
- PRECAMBRIAN
- WEATHERED GRANITE
- SANDSTONE
- LIMESTONE
- SILTSTONE
- CLAYSTONE
- SHALE
- BEDROCK
- GRAVEL
- SAND & GRAVEL
- SAND
- INTERBEDDED
- SILT
- CLAY
- TILL
- FILL
- TOPSOIL
- NOSAMPLE

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Tolna flight area from March 15-17, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 5.8.3. Boreholes are from the North Dakota State Water Commission Map service download October 2018 and are plotted within 1/4 mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.







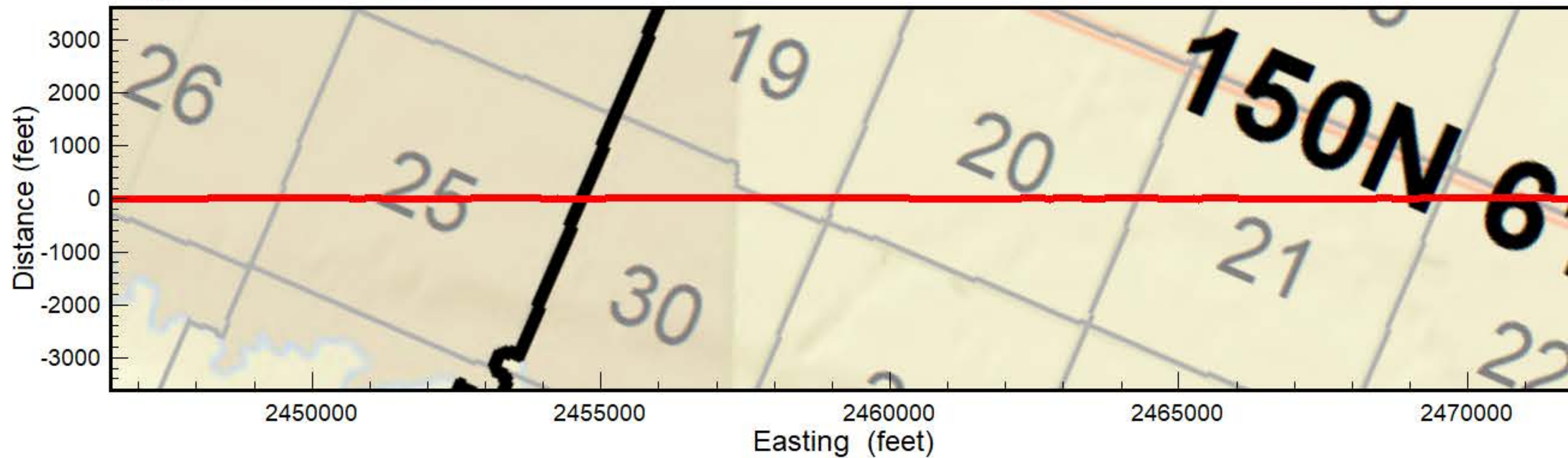
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- LIGNITE
- COBBLES
- BOULDER
- ROCK
- PRECAMBRIAN
- WEATHERED GRANITE
- SANDSTONE
- LIMESTONE
- SILTSTONE
- CLAYSTONE
- SHALE
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- GRAVEL
- SAND & GRAVEL
- SAND
- INTERBEDDED
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Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Tolna flight area from March 15-17, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 5.8.3. Boreholes are from the North Dakota State Water Commission Map service download October 2018 and are plotted within 1/4 mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

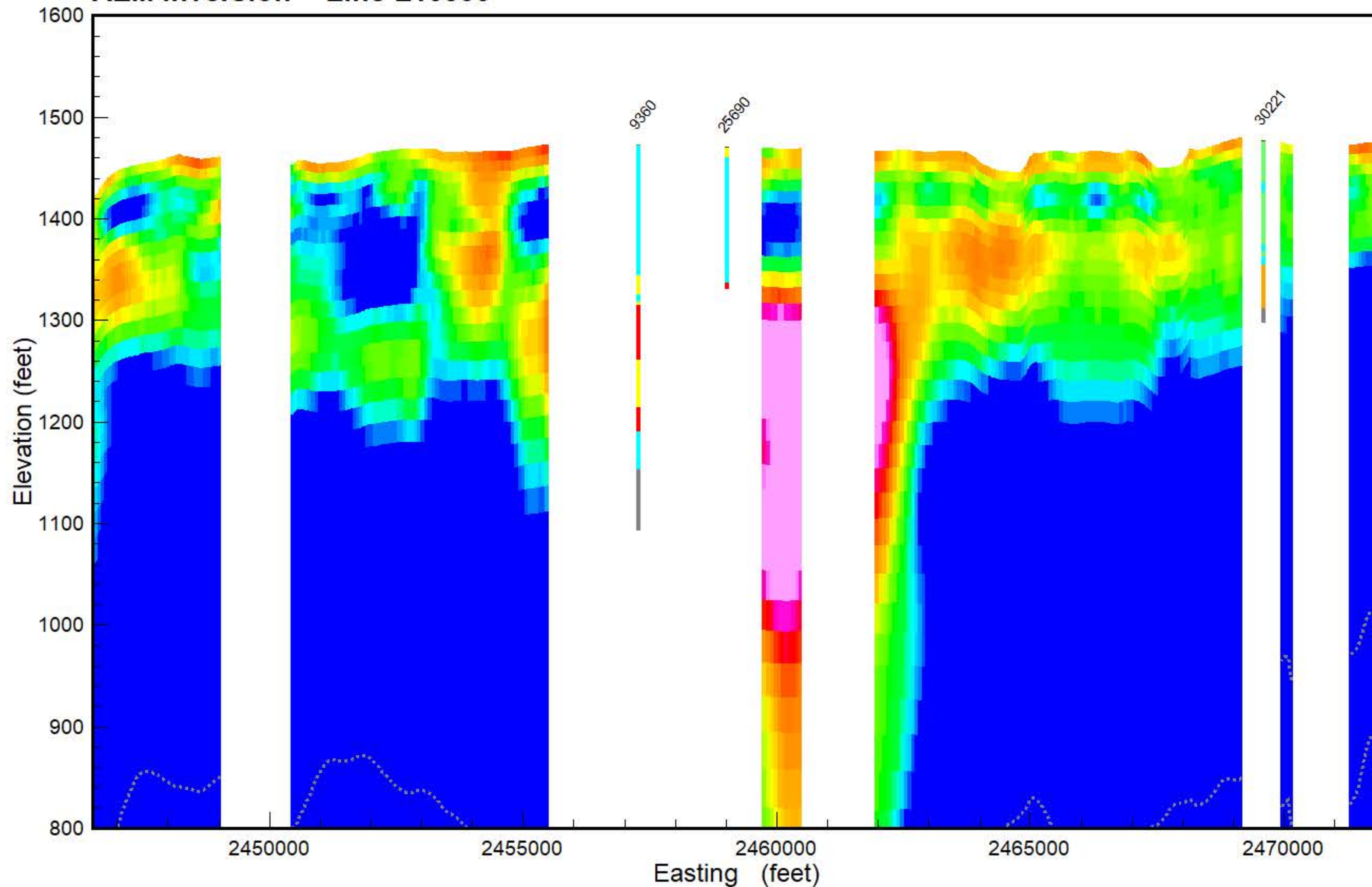




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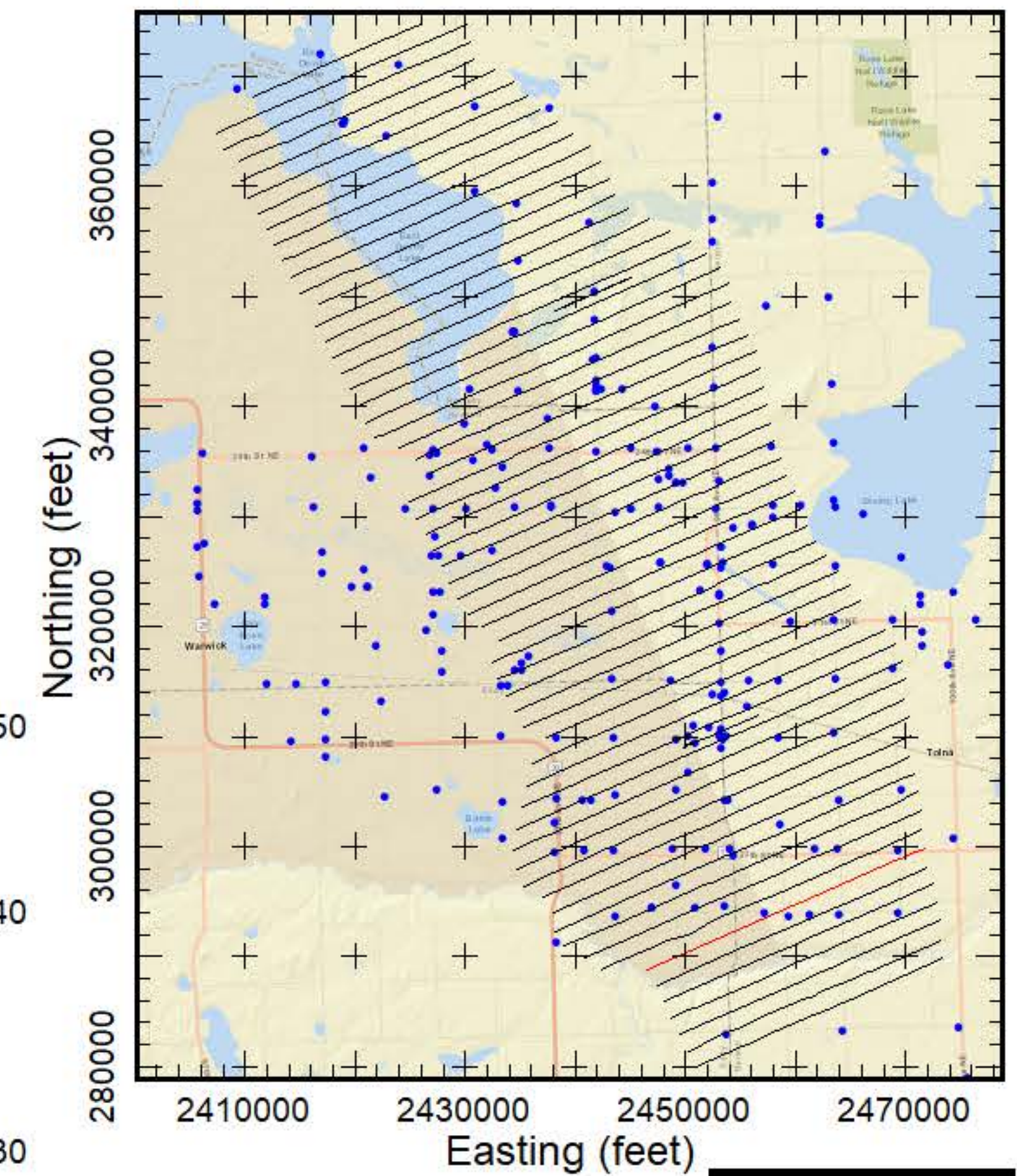


**AEM Inversion Line L10530**



**Flight Area Tolna**

**NORTH DAKOTA STATE WATER COMMISSION**  
 900 EAST BOULEVARD AVE, DEPT. 770  
 BISMARCK, ND 58505-0850



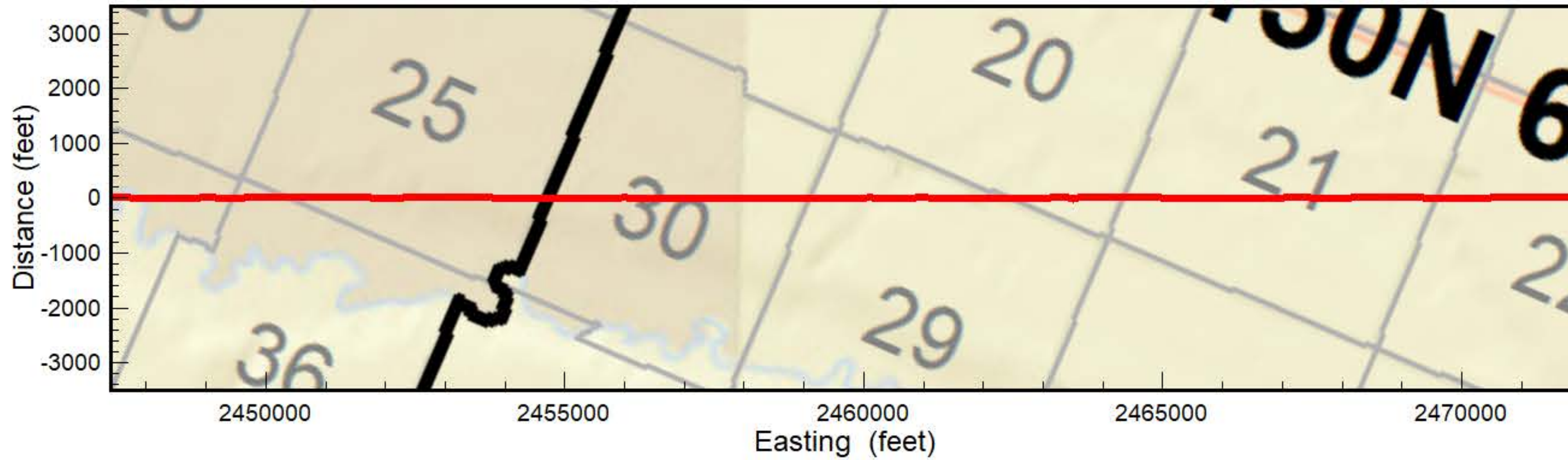
Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Tolna flight area from March 15-17, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 5.8.3. Boreholes are from the North Dakota State Water Commission Map service download October 2018 and are plotted within 1/4 mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua AGF Frameworks, LLC.

- PEAT
- LIGNITE
- COBBLES
- BOULDER
- ROCK
- PRECAMBRIAN
- WEATHERED GRANITE
- SANDSTONE
- LIMESTONE
- SILTSTONE
- CLAYSTONE
- SHALE
- BEDROCK
- GRAVEL
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- SAND
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- SILT
- CLAY
- TILL
- FILL
- TOPSOIL
- NOSAMPLE

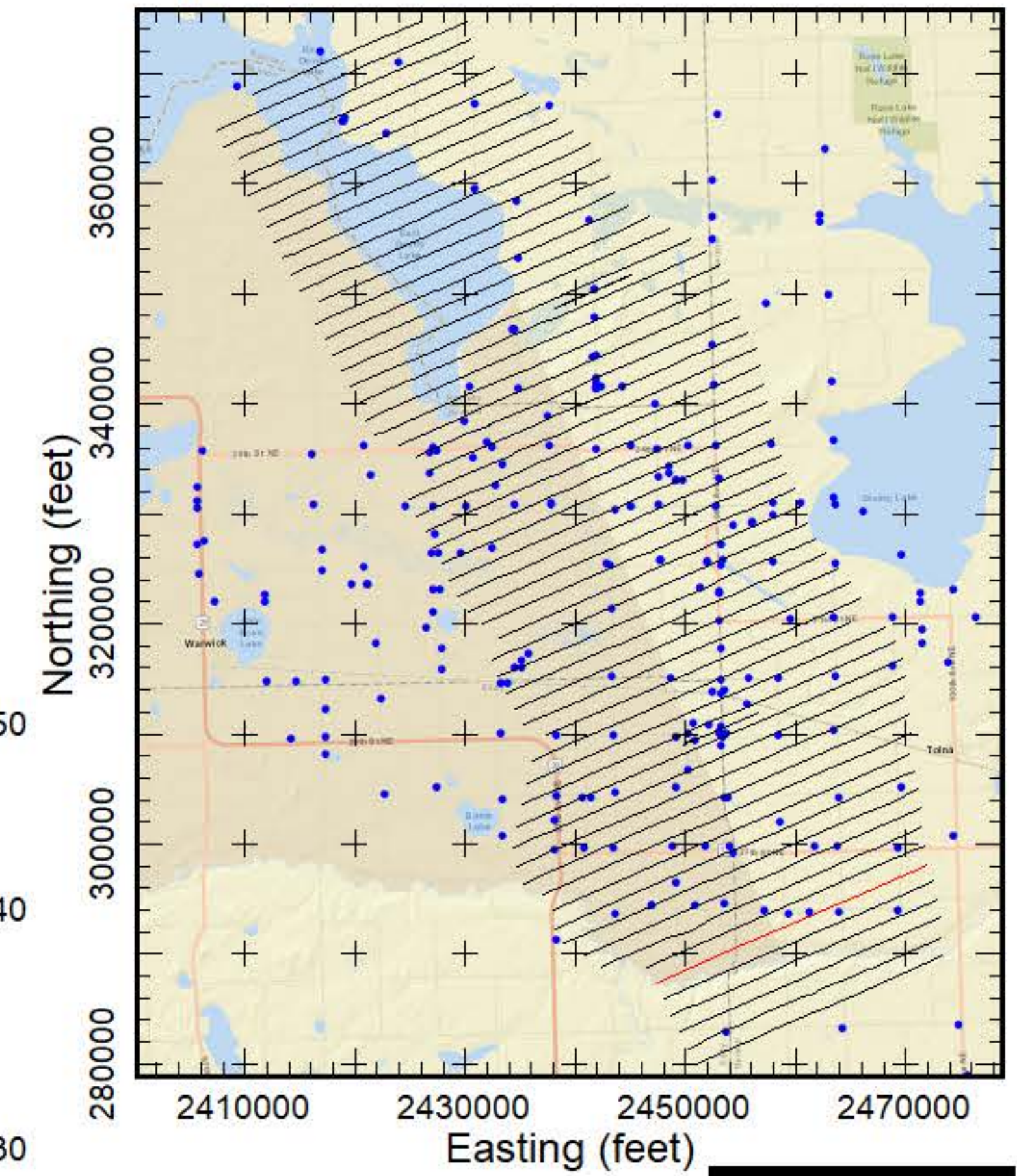




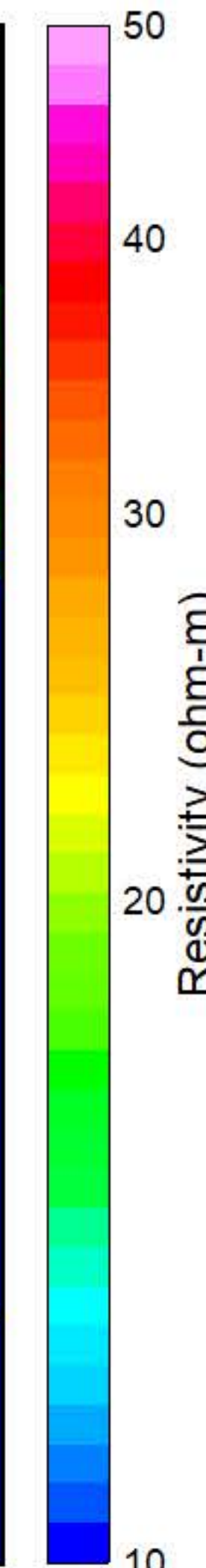
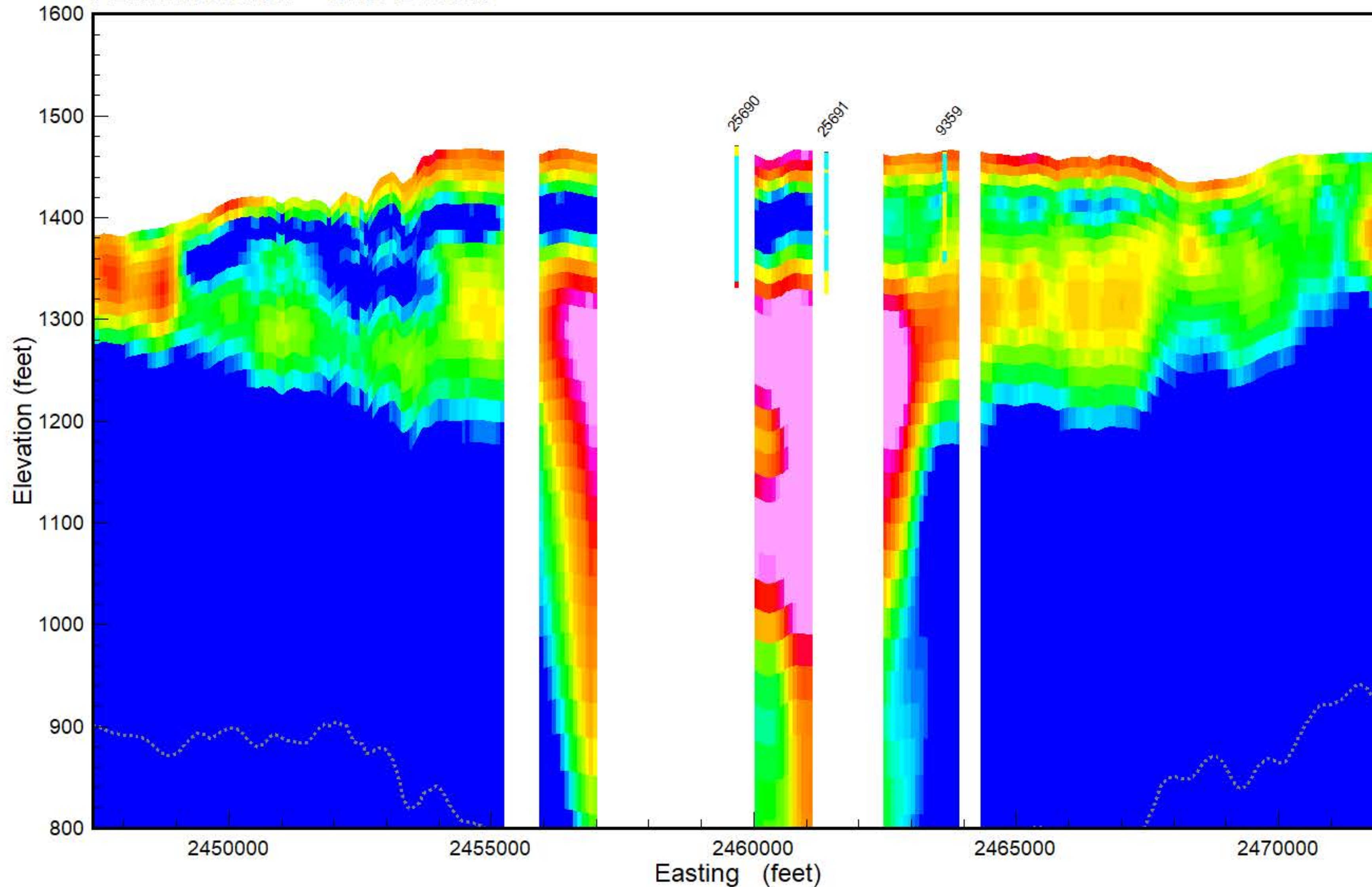
**Flight Path Line L10540**



**Flight Area Tolna**



**AEM Inversion Line L10540**



- PEAT
- LIGNITE
- COBBLES
- BOULDER
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- PRECAMBRIAN
- WEATHERED GRANITE
- SANDSTONE
- LIMESTONE
- SILTSTONE
- CLAYSTONE
- SHALE
- BEDROCK
- GRAVEL
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- SILT
- CLAY
- TILL
- FILL
- TOPSOIL
- NOSAMPLE

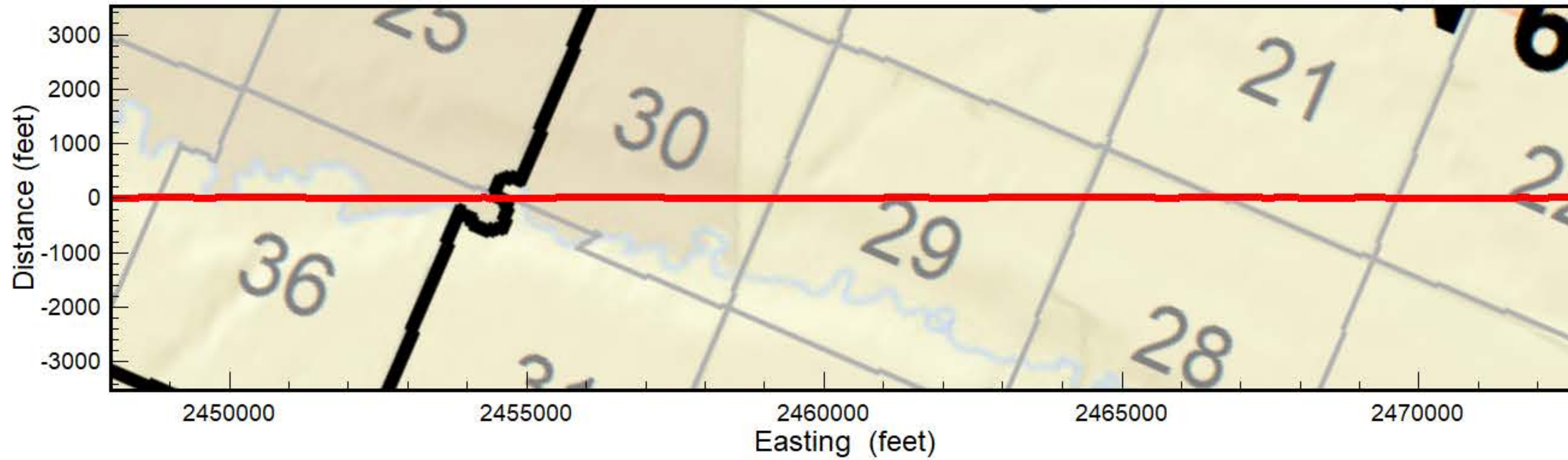


Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Tolna flight area from March 15-17, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 5.8.3. Boreholes are from the North Dakota State Water Commission Map service download October 2018 and are plotted within 1/4 mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

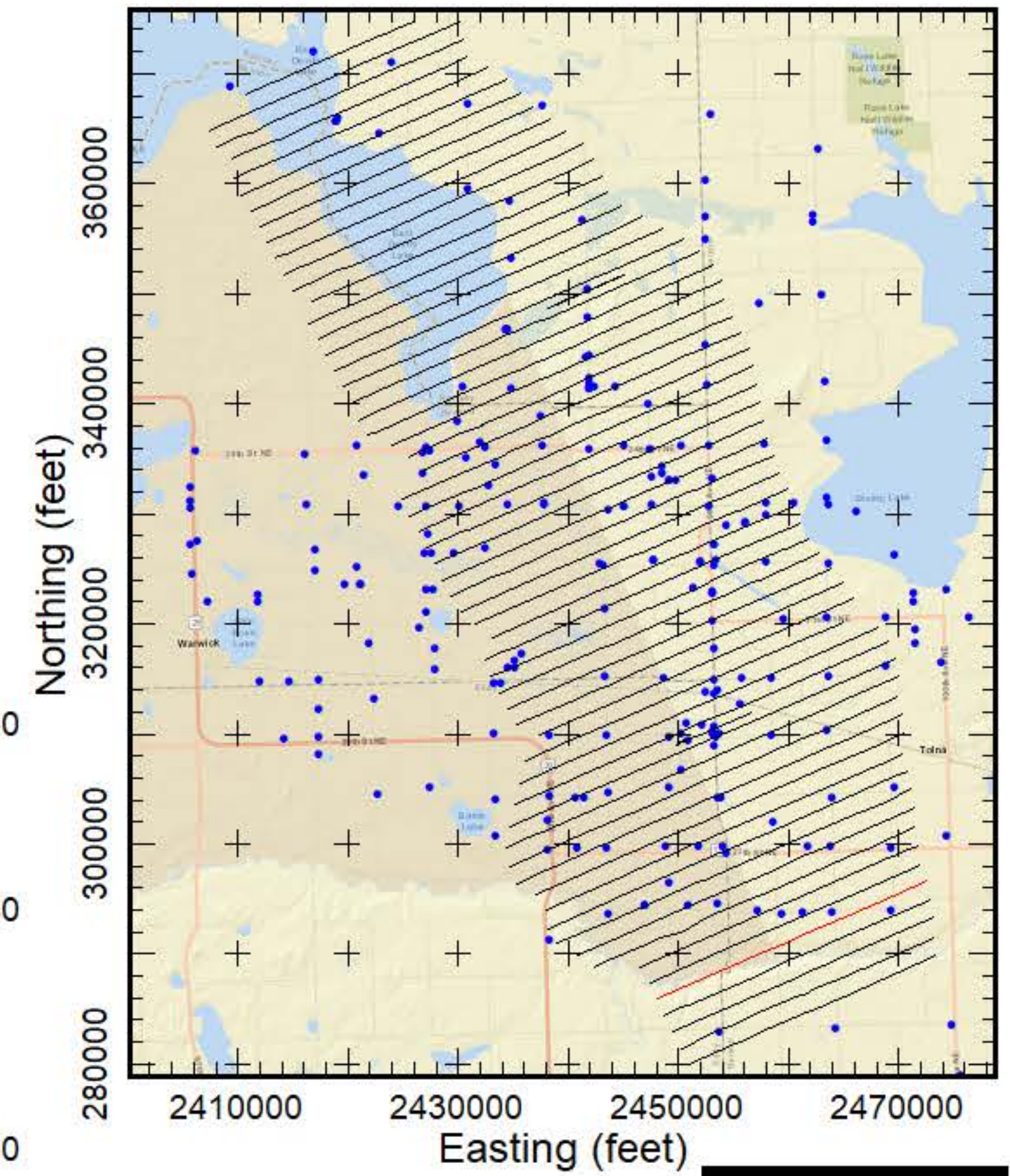




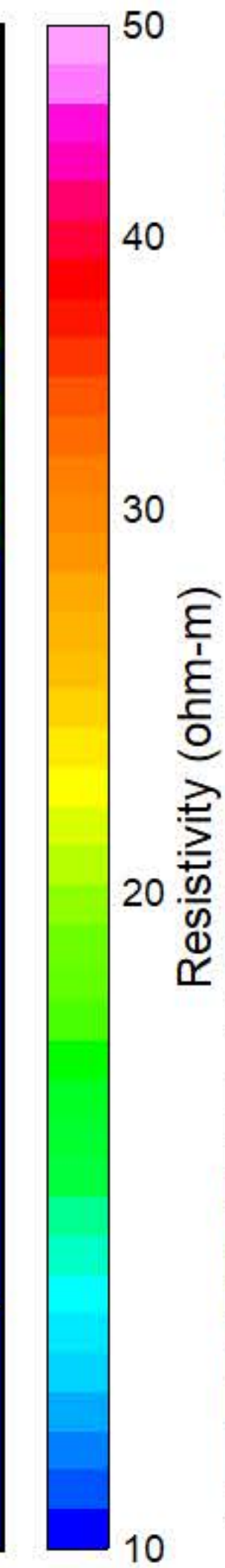
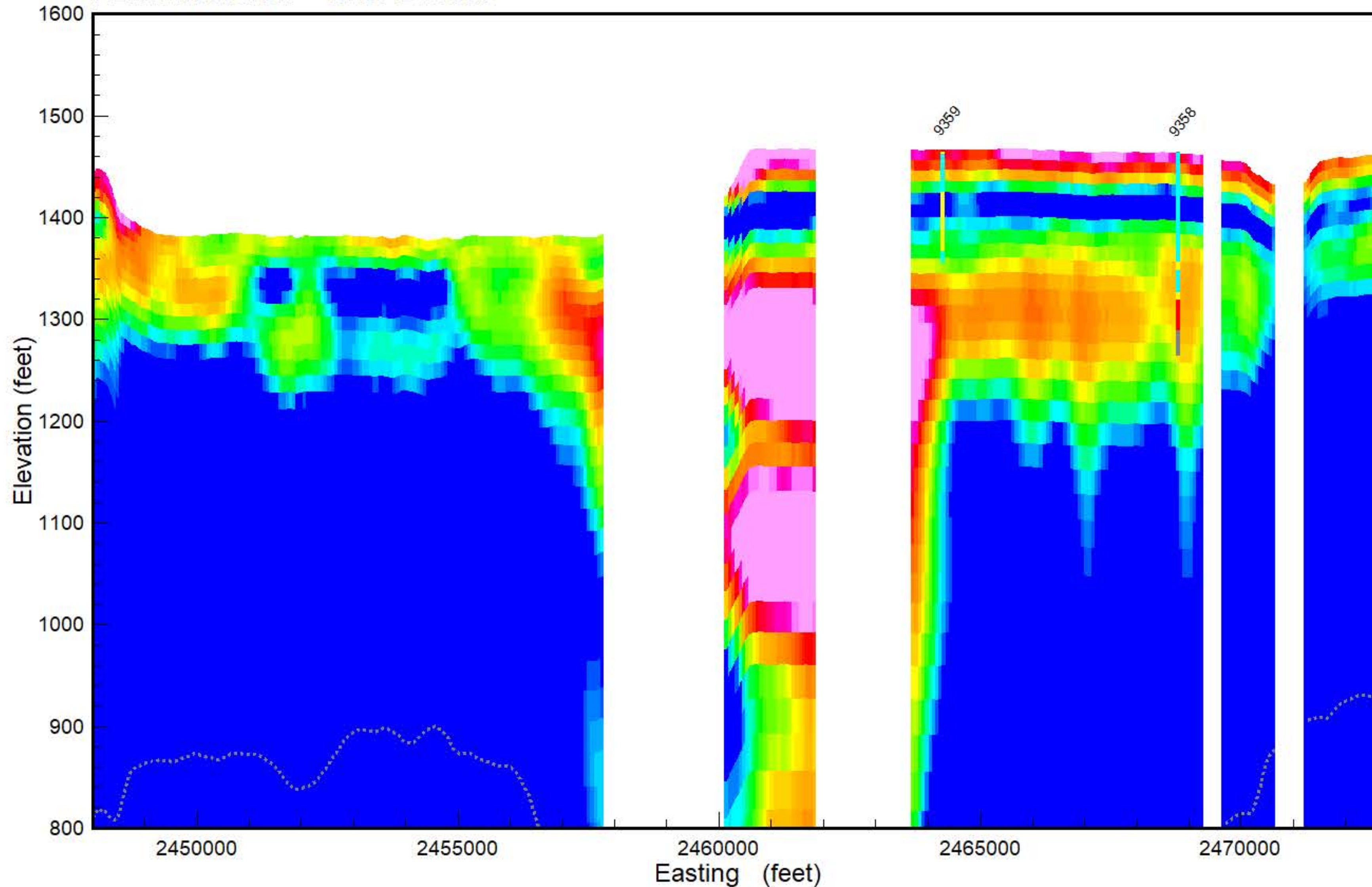
**Flight Path Line L10550**



**Flight Area Tolna**



**AEM Inversion Line L10550**



- PEAT
- LIGNITE
- COBBLES
- BOULDER
- ROCK
- PRECAMBRIAN
- WEATHERED GRANITE
- SANDSTONE
- LIMESTONE
- SILTSTONE
- CLAYSTONE
- SHALE
- BEDROCK
- GRAVEL
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- SILT
- CLAY
- TILL
- FILL
- TOPSOIL
- NOSAMPLE

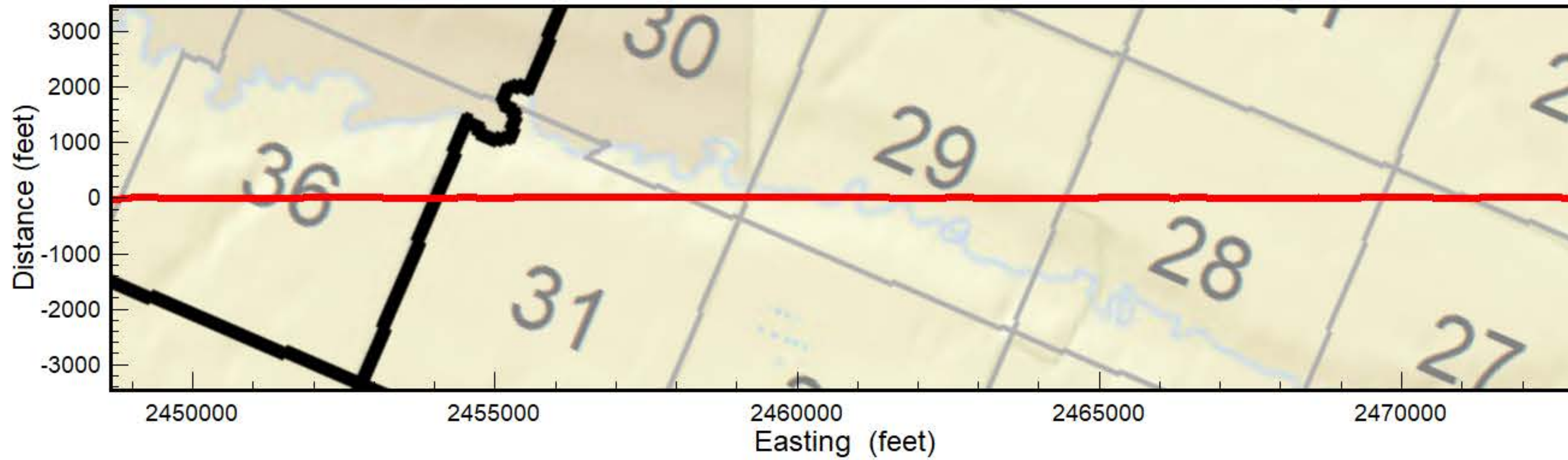


Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Tolna flight area from March 15-17, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 5.8.3. Boreholes are from the North Dakota State Water Commission Map service download October 2018 and are plotted within 1/4 mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

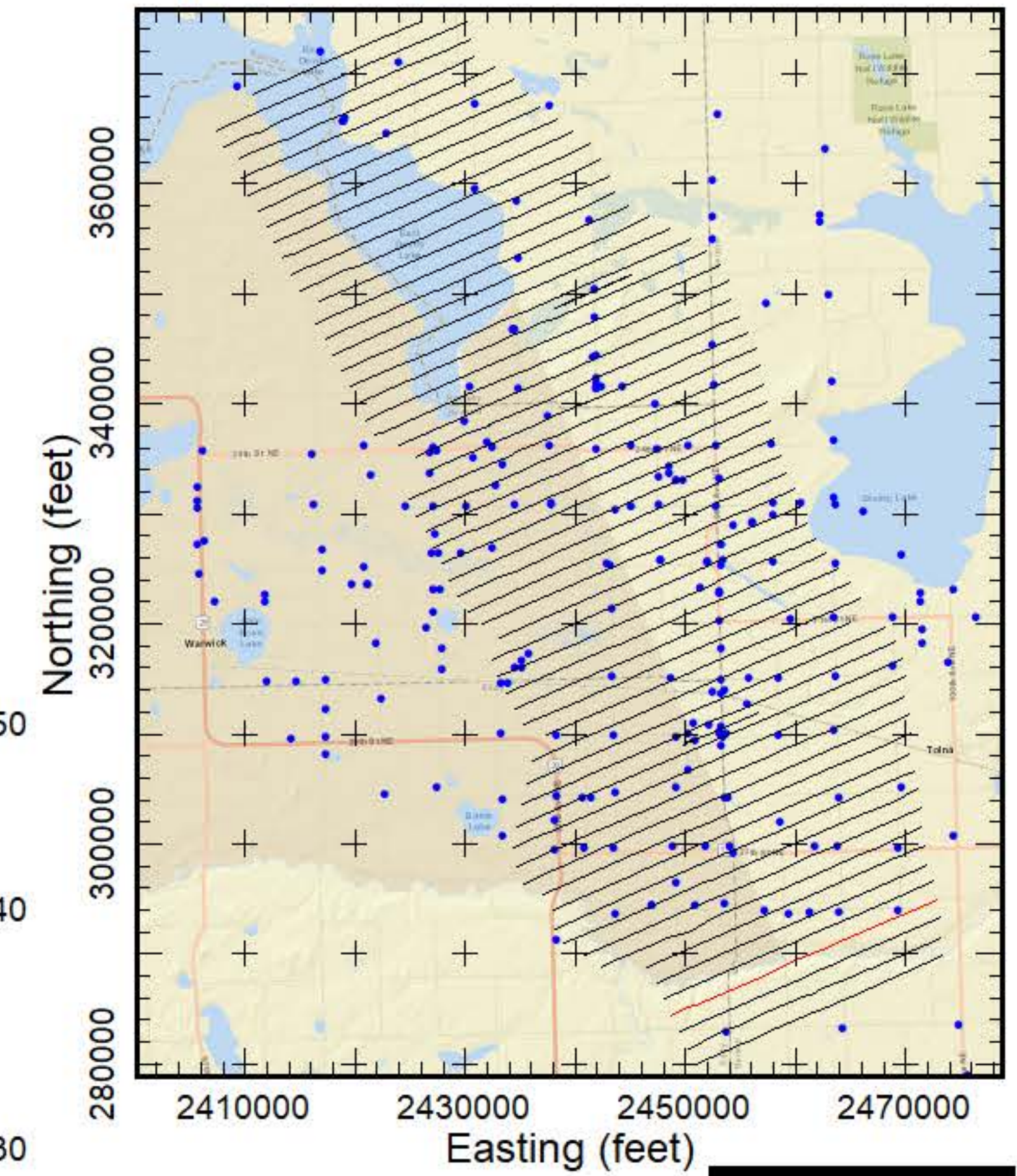




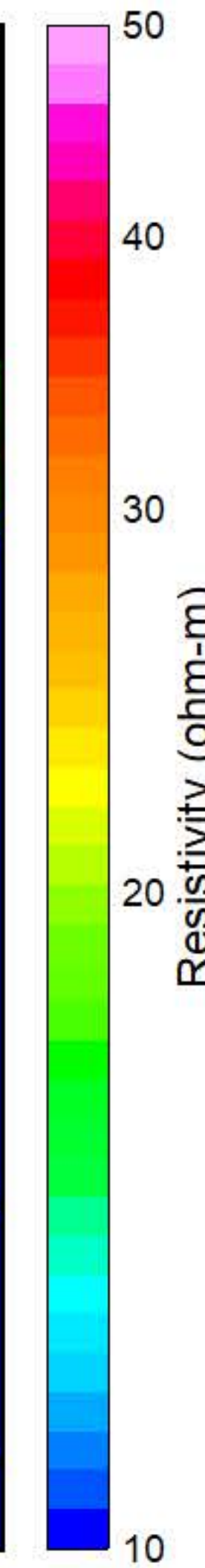
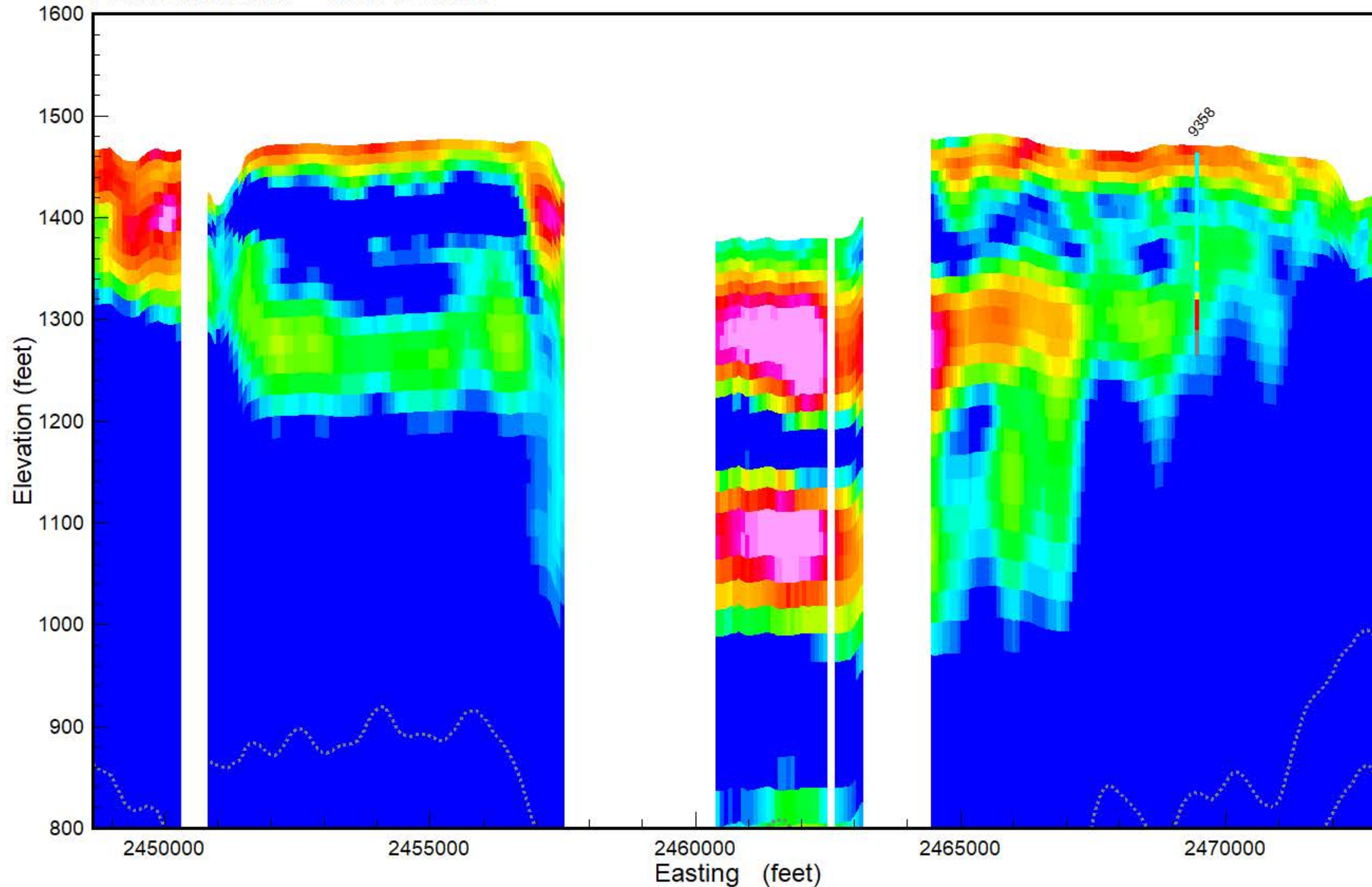
**Flight Path Line L10560**



**Flight Area Tolna**



**AEM Inversion Line L10560**



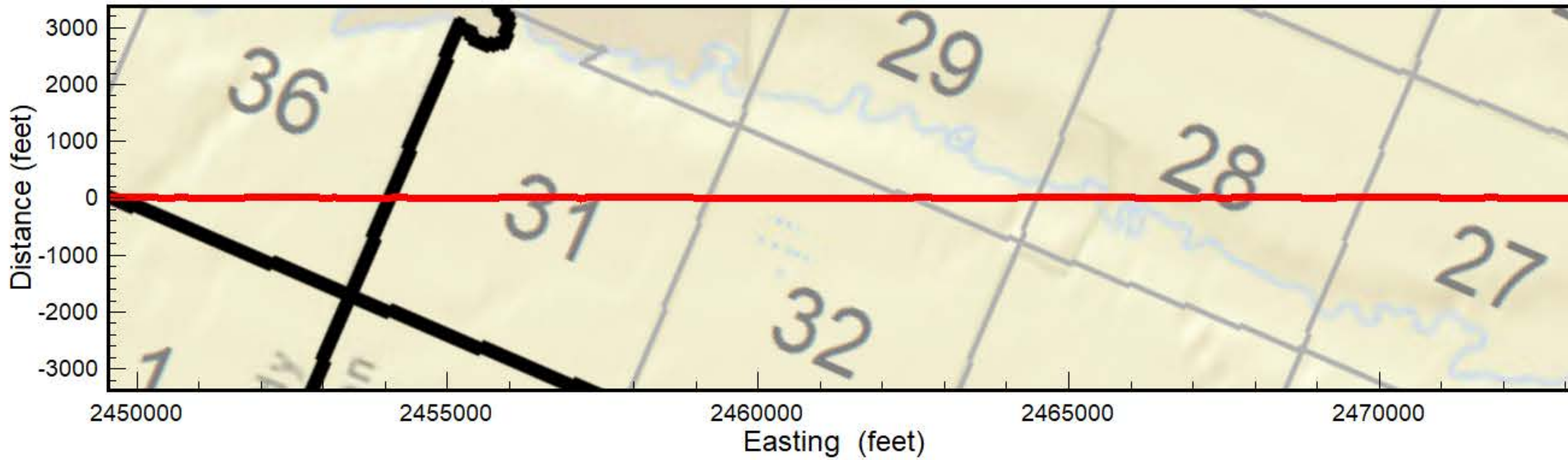
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- COBBLES
- BOULDER
- ROCK
- PRECAMBRIAN
- WEATHERED GRANITE
- SANDSTONE
- LIMESTONE
- SILTSTONE
- CLAYSTONE
- SHALE
- BEDROCK
- GRAVEL
- SAND & GRAVEL
- SAND
- INTERBEDDED
- SILT
- CLAY
- TILL
- FILL
- TOPSOIL
- NOSAMPLE

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Tolna flight area from March 15-17, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 5.8.3. Boreholes are from the North Dakota State Water Commission Map service download October 2018 and are plotted within 1/4 mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

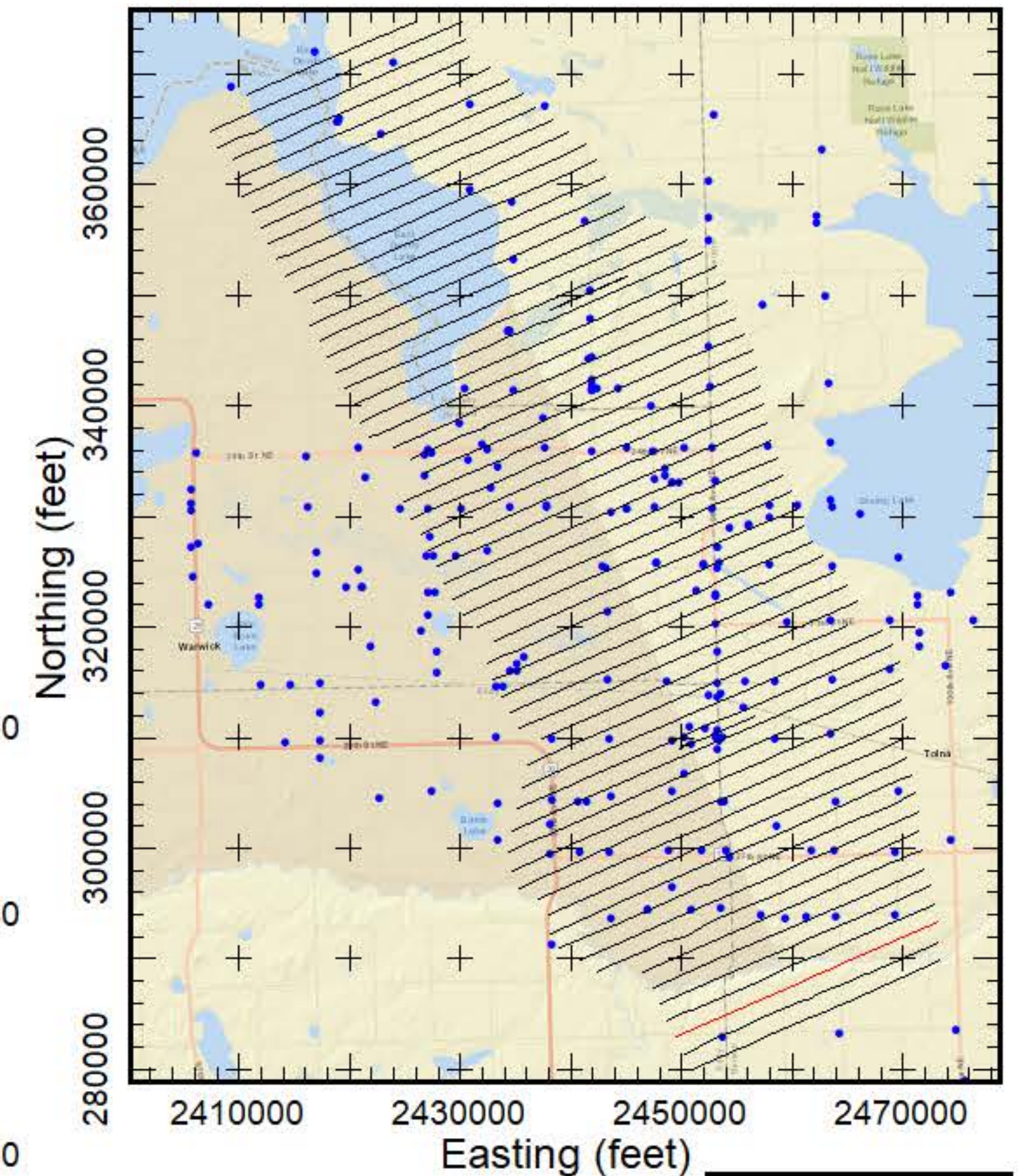




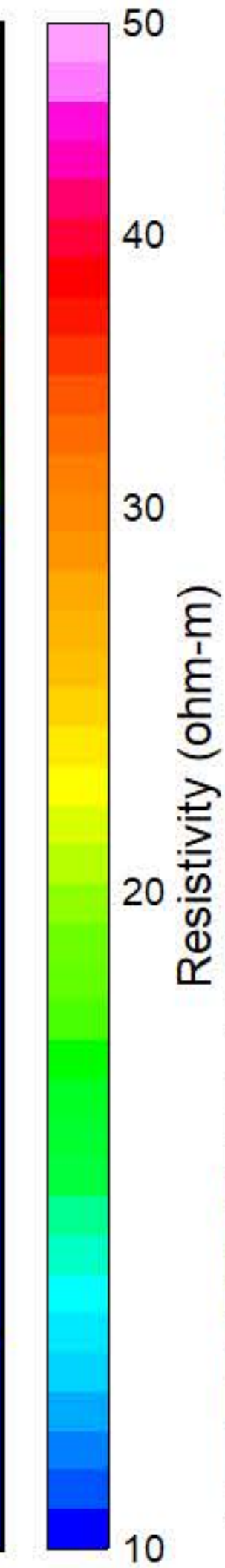
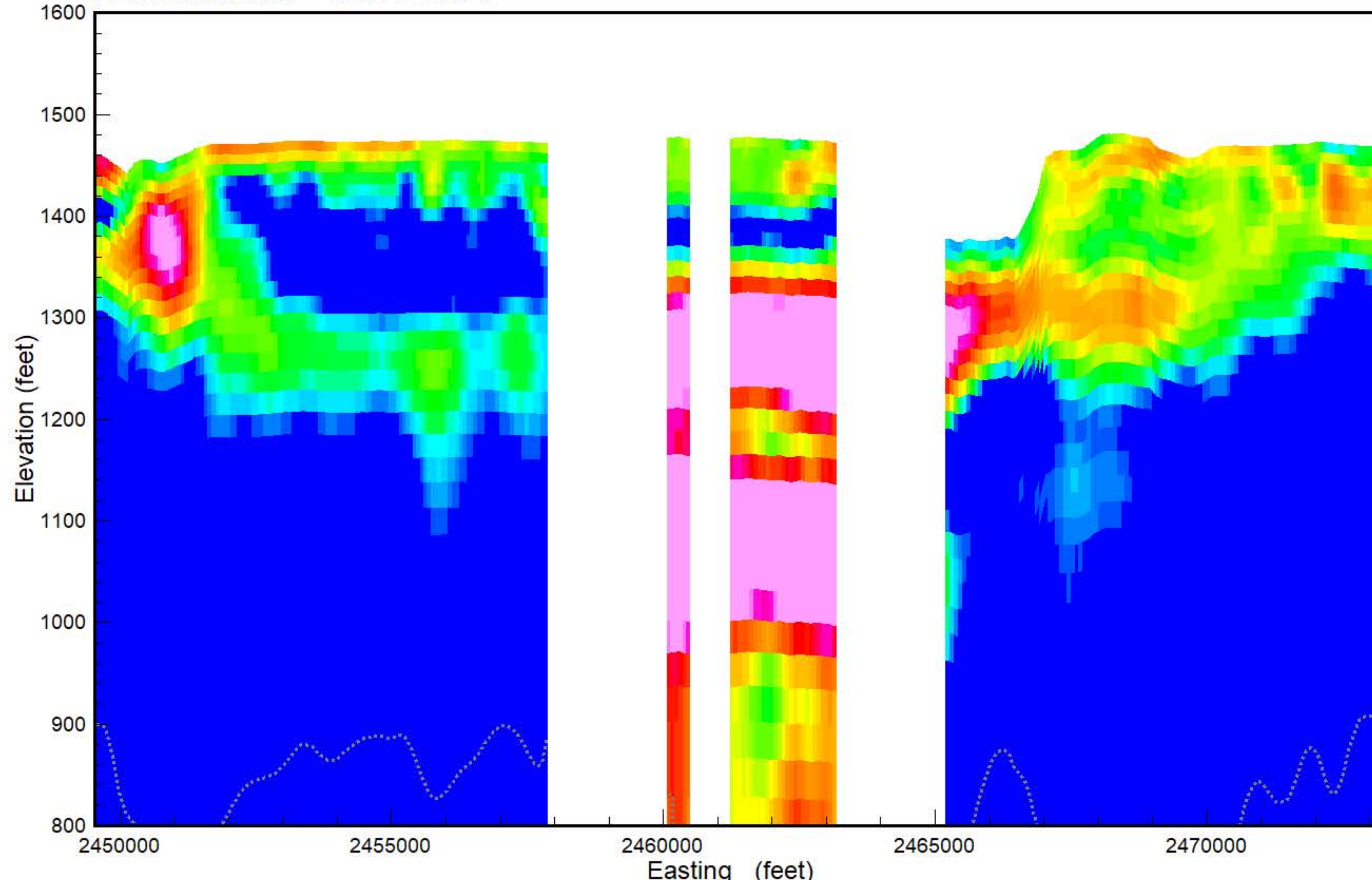
**Flight Path Line L10570**



**Flight Area Tolna**



**AEM Inversion Line L10570**

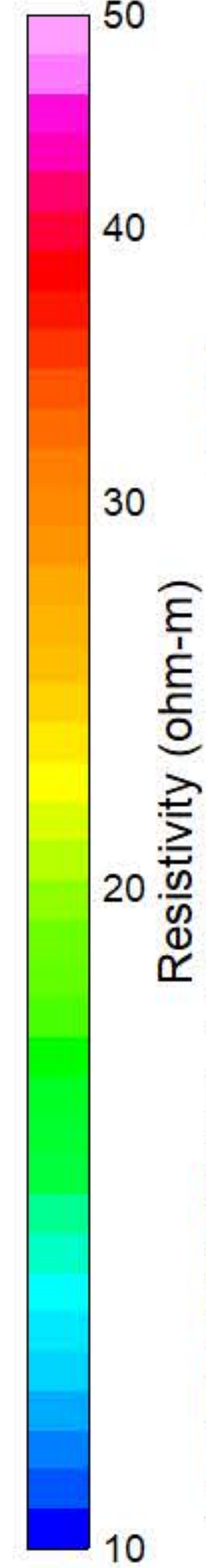
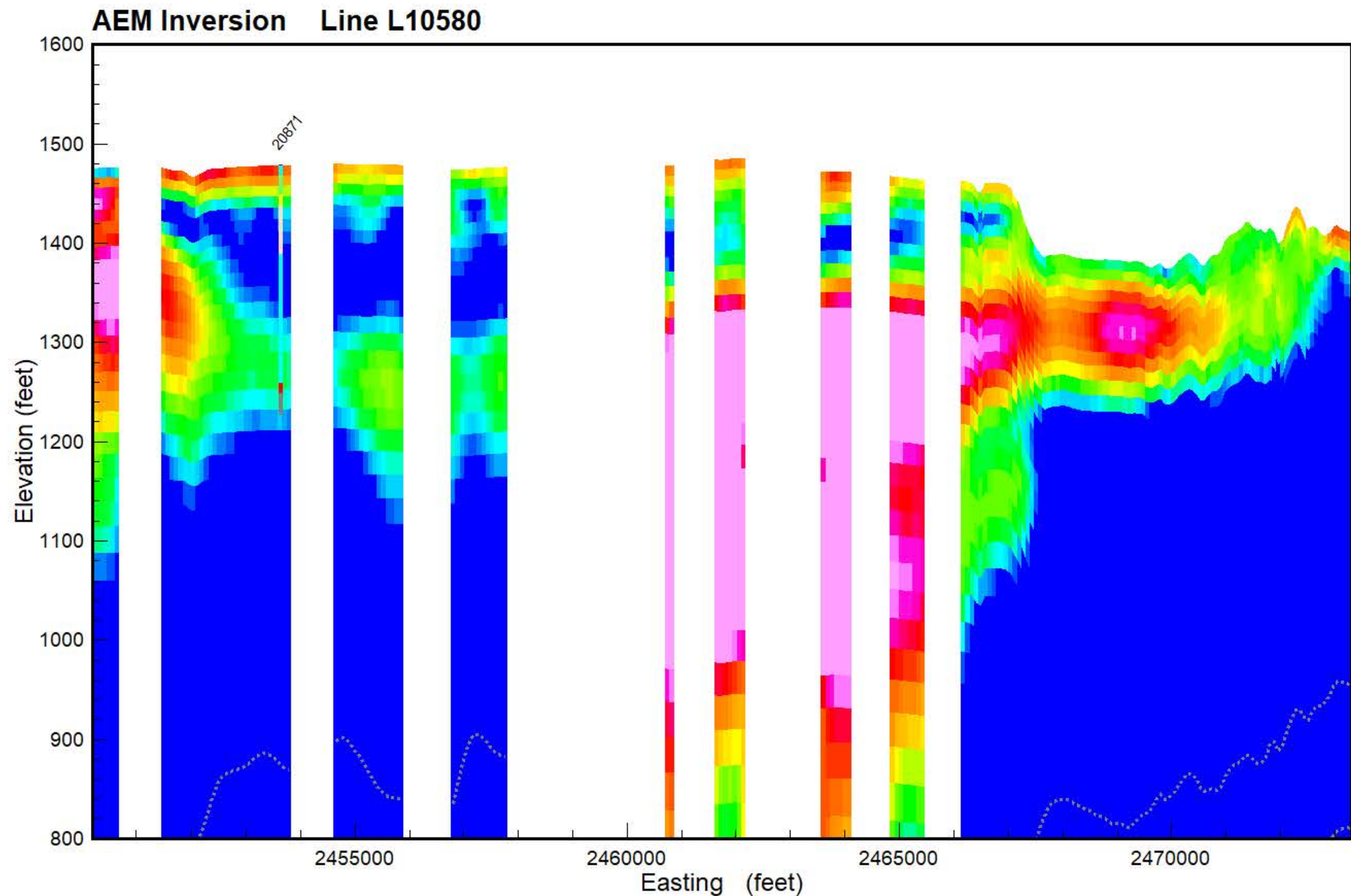
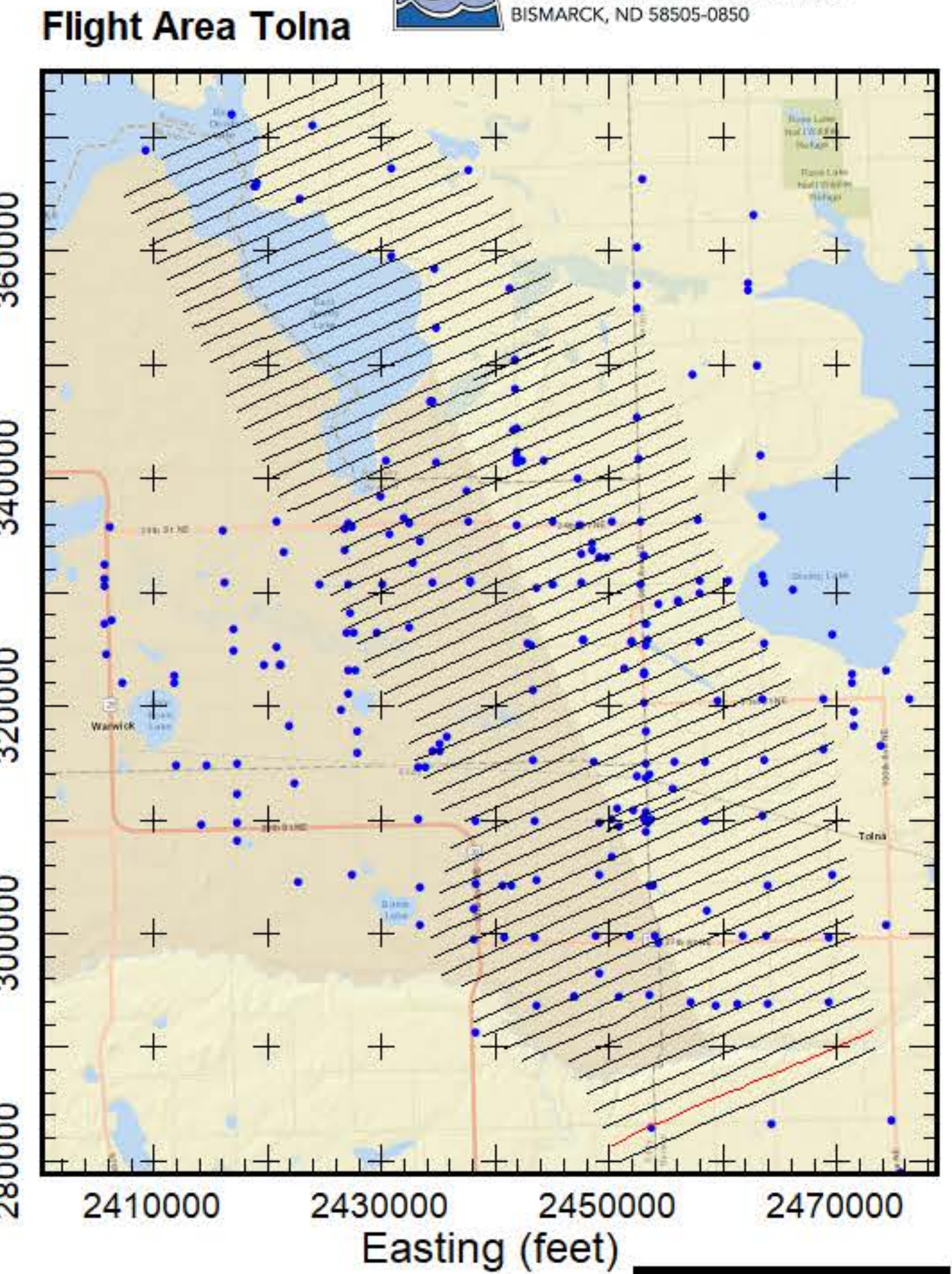
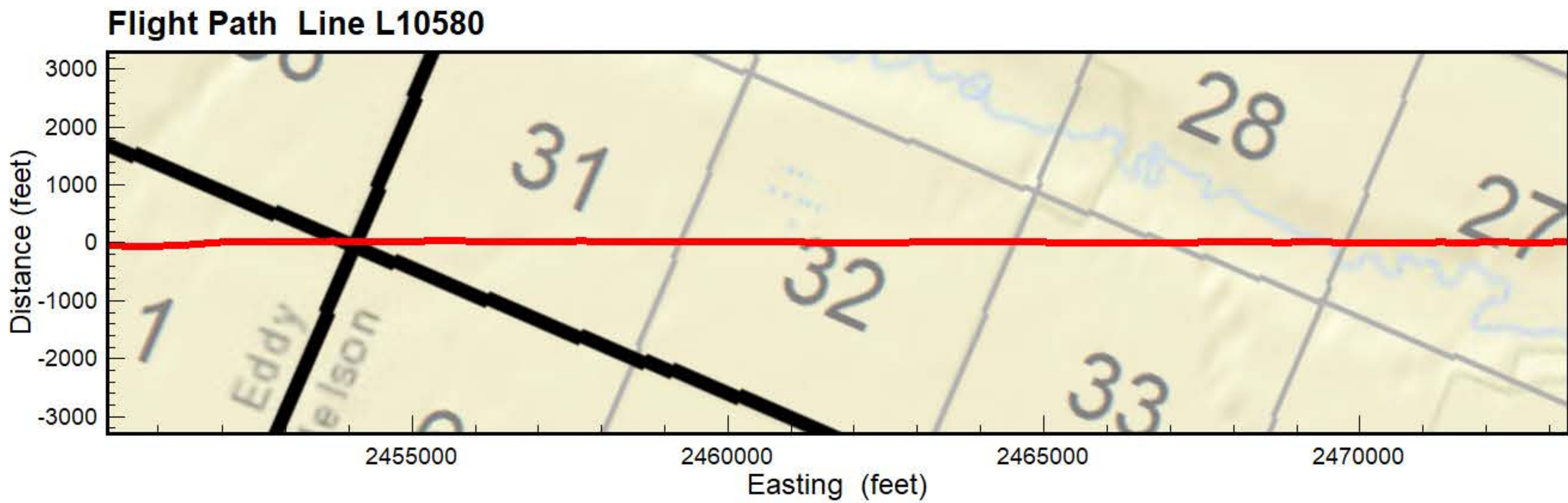


- PEAT
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- COBBLES
- BOULDER
- ROCK
- PRECAMBRIAN
- WEATHERED GRANITE
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- SILTSTONE
- CLAYSTONE
- SHALE
- BEDROCK
- GRAVEL
- SAND & GRAVEL
- SAND
- INTERBEDDED
- SILT
- CLAY
- TILL
- FILL
- TOPSOIL
- NOSAMPLE

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Tolna flight area from March 15-17, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 5.8.3. Boreholes are from the North Dakota State Water Commission Map service download October 2018 and are plotted within 1/4 mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.





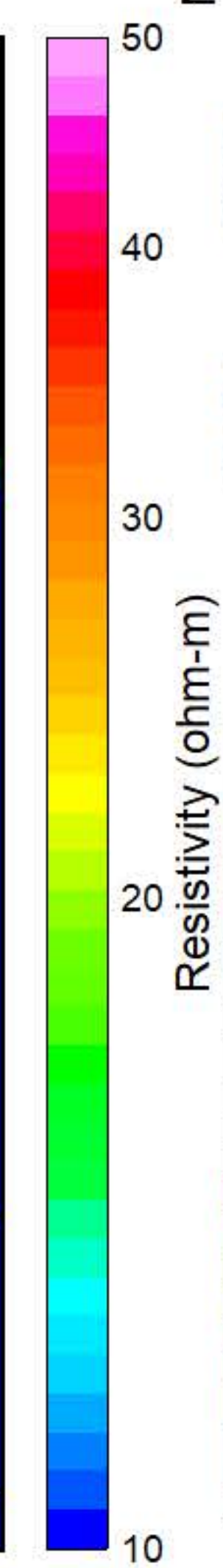
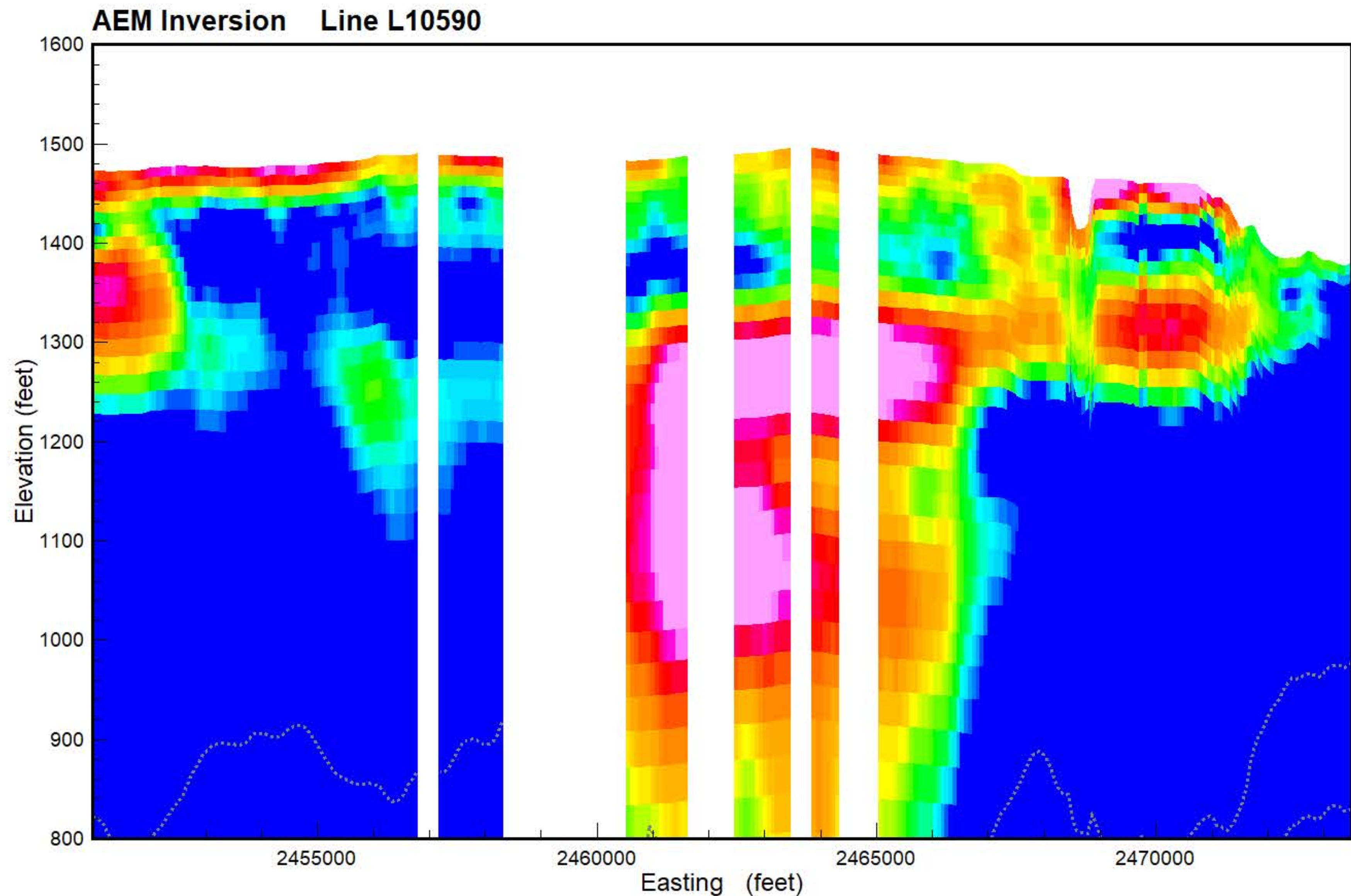
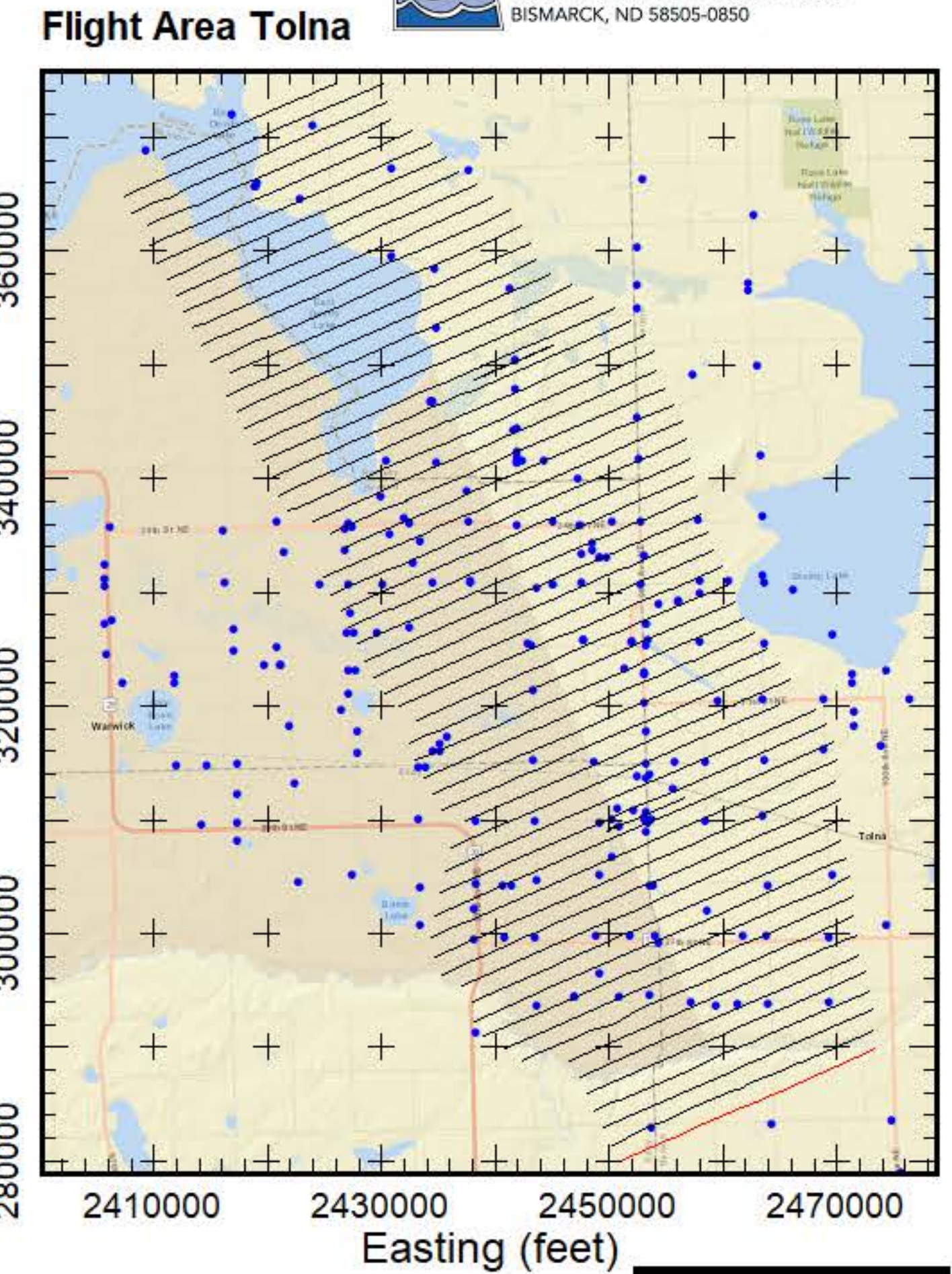
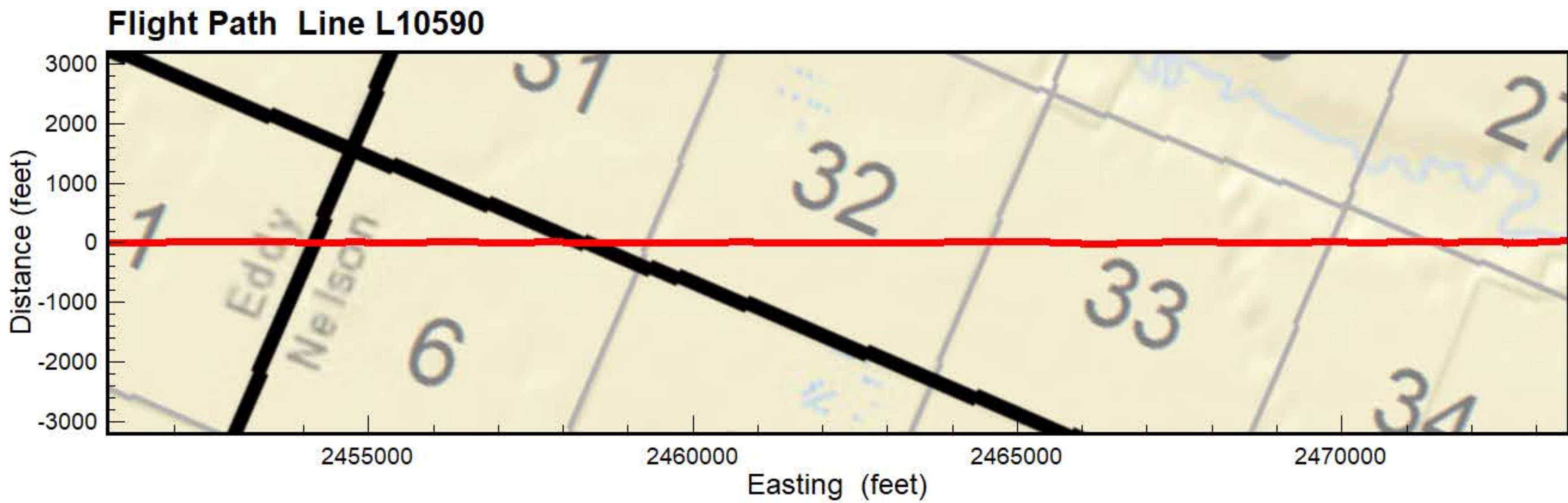


- PEAT
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- WEATHERED GRANITE
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- LIMESTONE
- SILTSTONE
- CLAYSTONE
- SHALE
- BEDROCK
- GRAVEL
- SAND & GRAVEL
- SAND
- INTERBEDDED
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- TOPSOIL
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Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Tolna flight area from March 15-17, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 5.8.3. Boreholes are from the North Dakota State Water Commission Map service download October 2018 and are plotted within 1/4 mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.







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Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Tolna flight area from March 15-17, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 5.8.3. Boreholes are from the North Dakota State Water Commission Map service download October 2018 and are plotted within 1/4 mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.





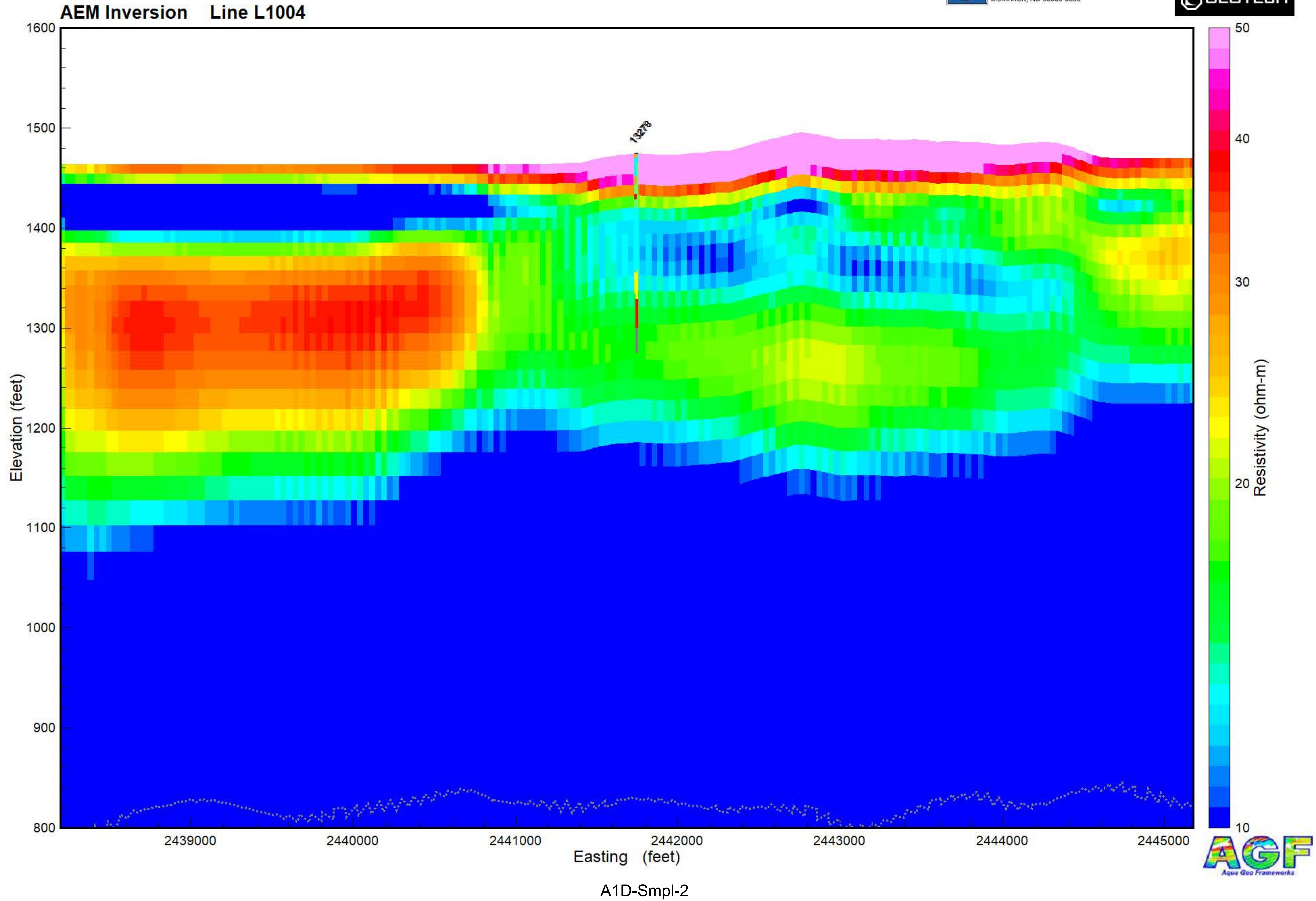
# Appendix 1:

## 2D Profiles – Simple for the Tolna Area

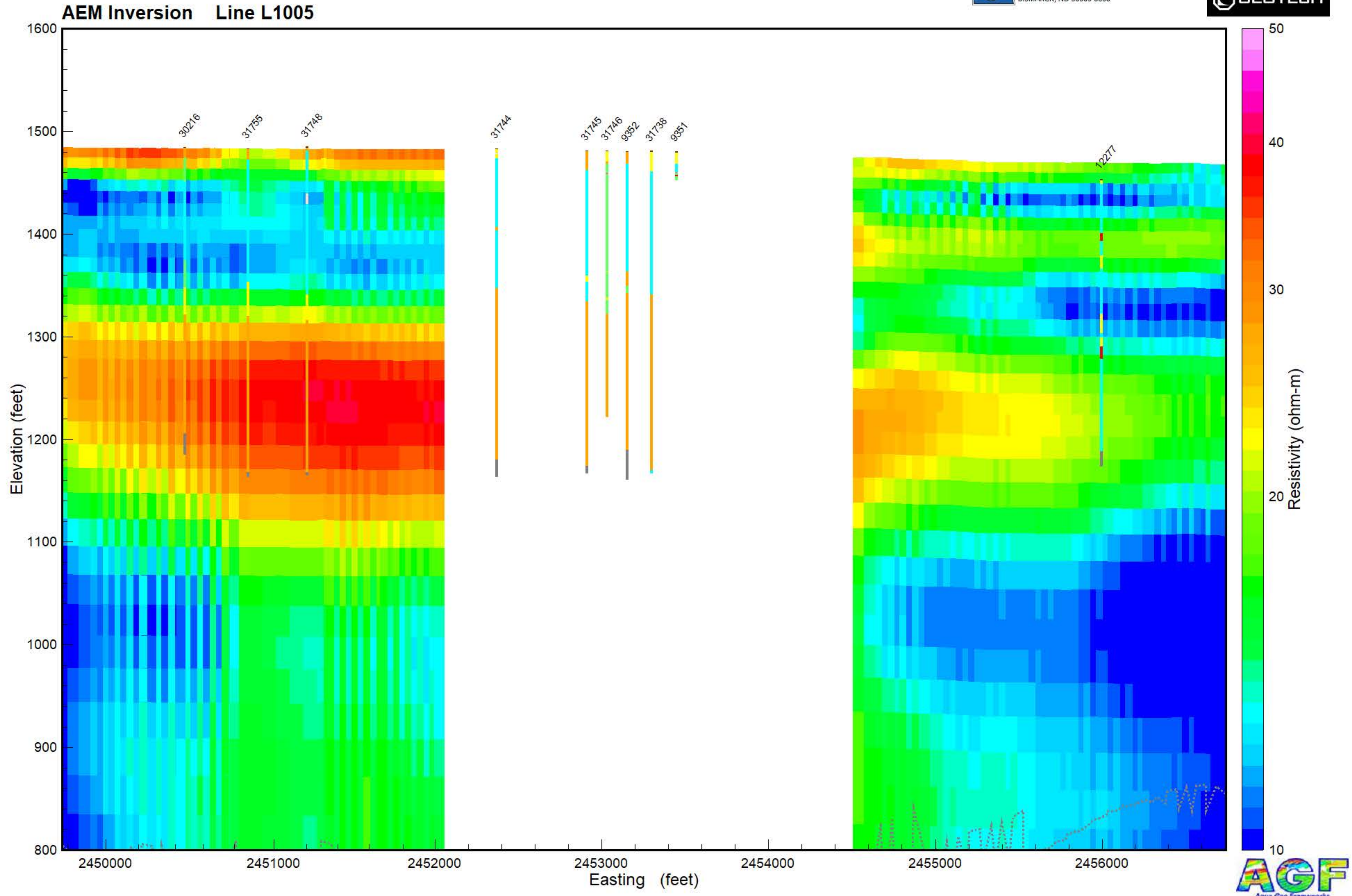
### Page

A1D-Smpl-2 – A1D-Smpl-63      2D profiles for the Tolna AEM survey area with only the inverted resistivity profiles.

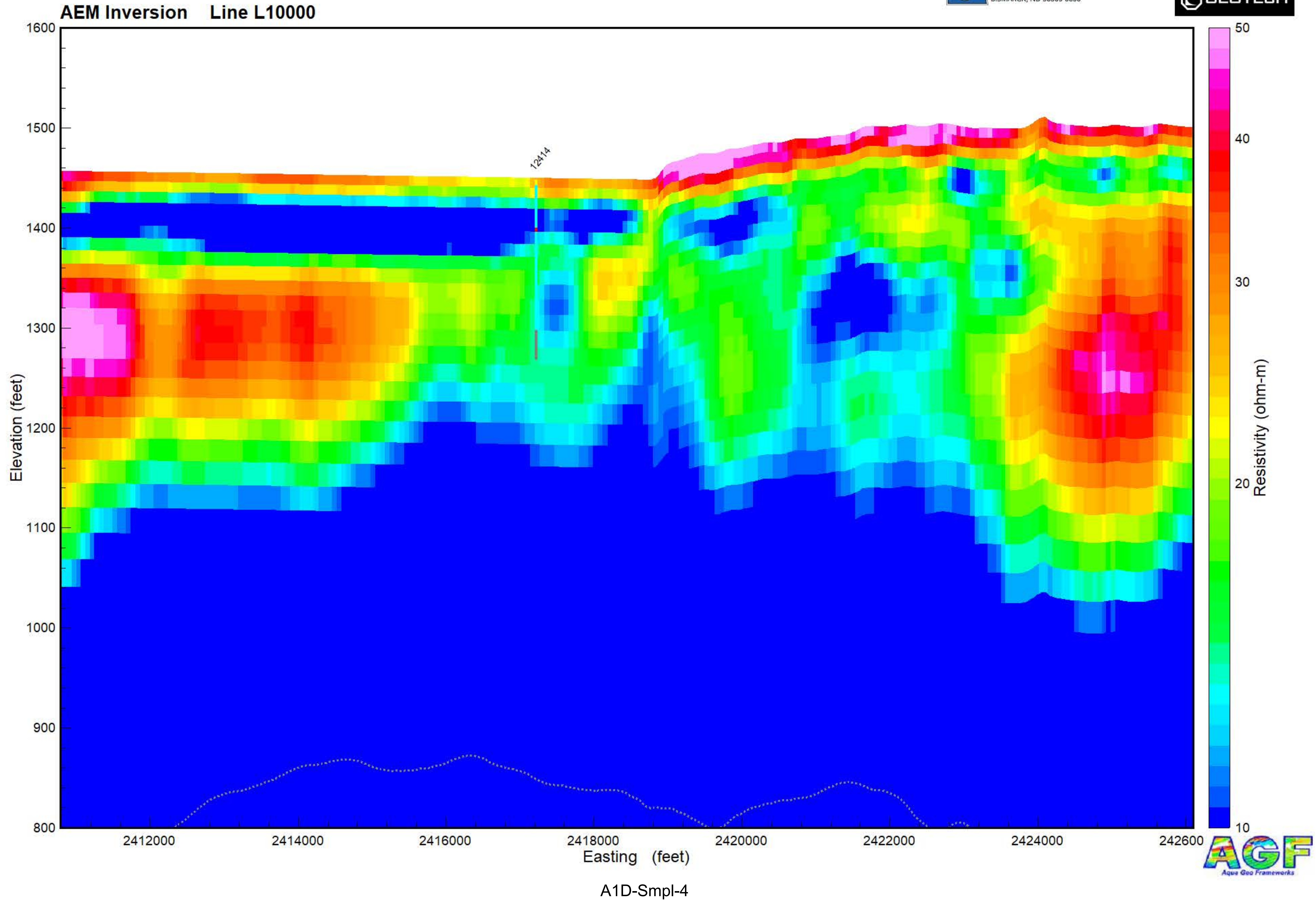




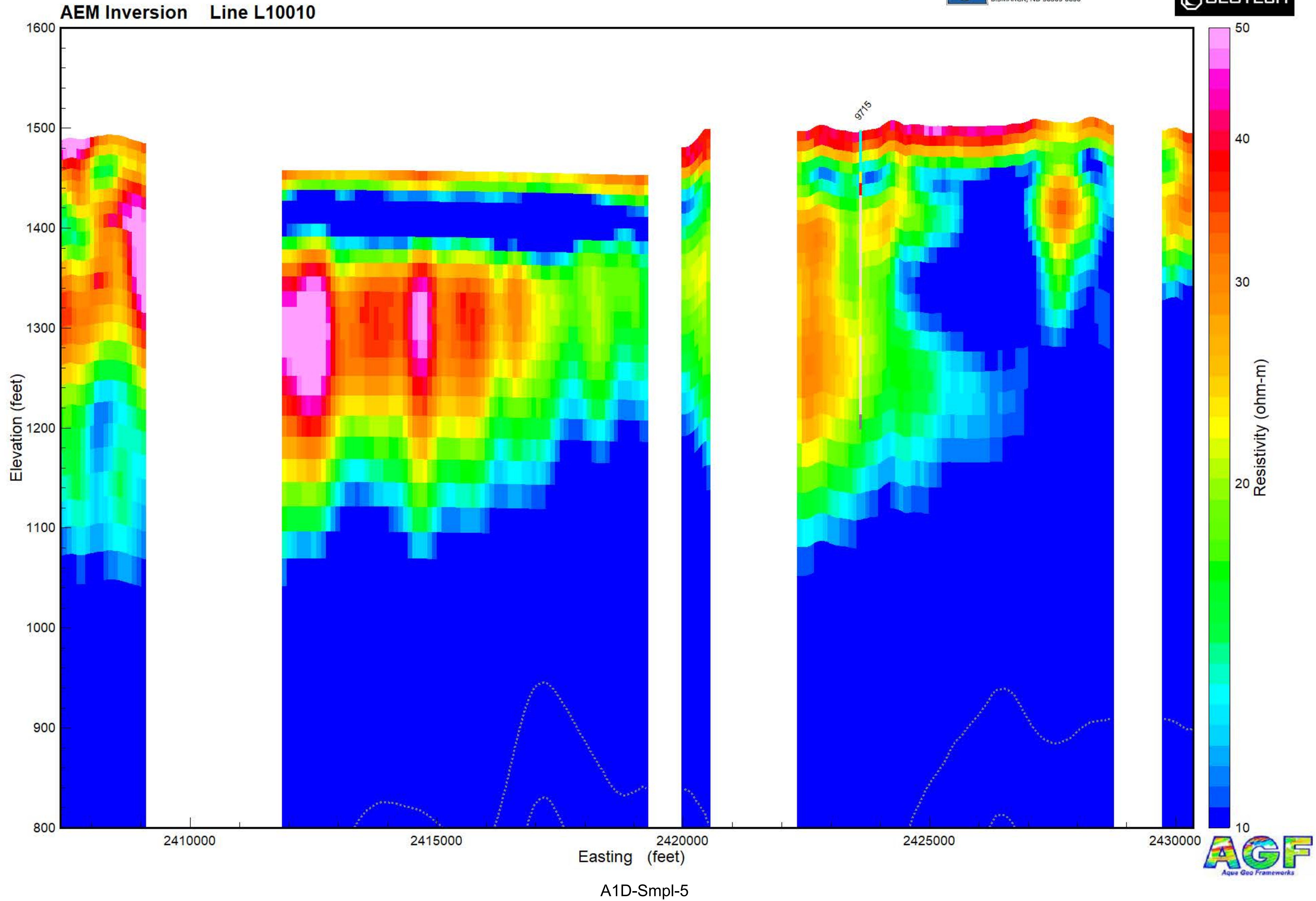




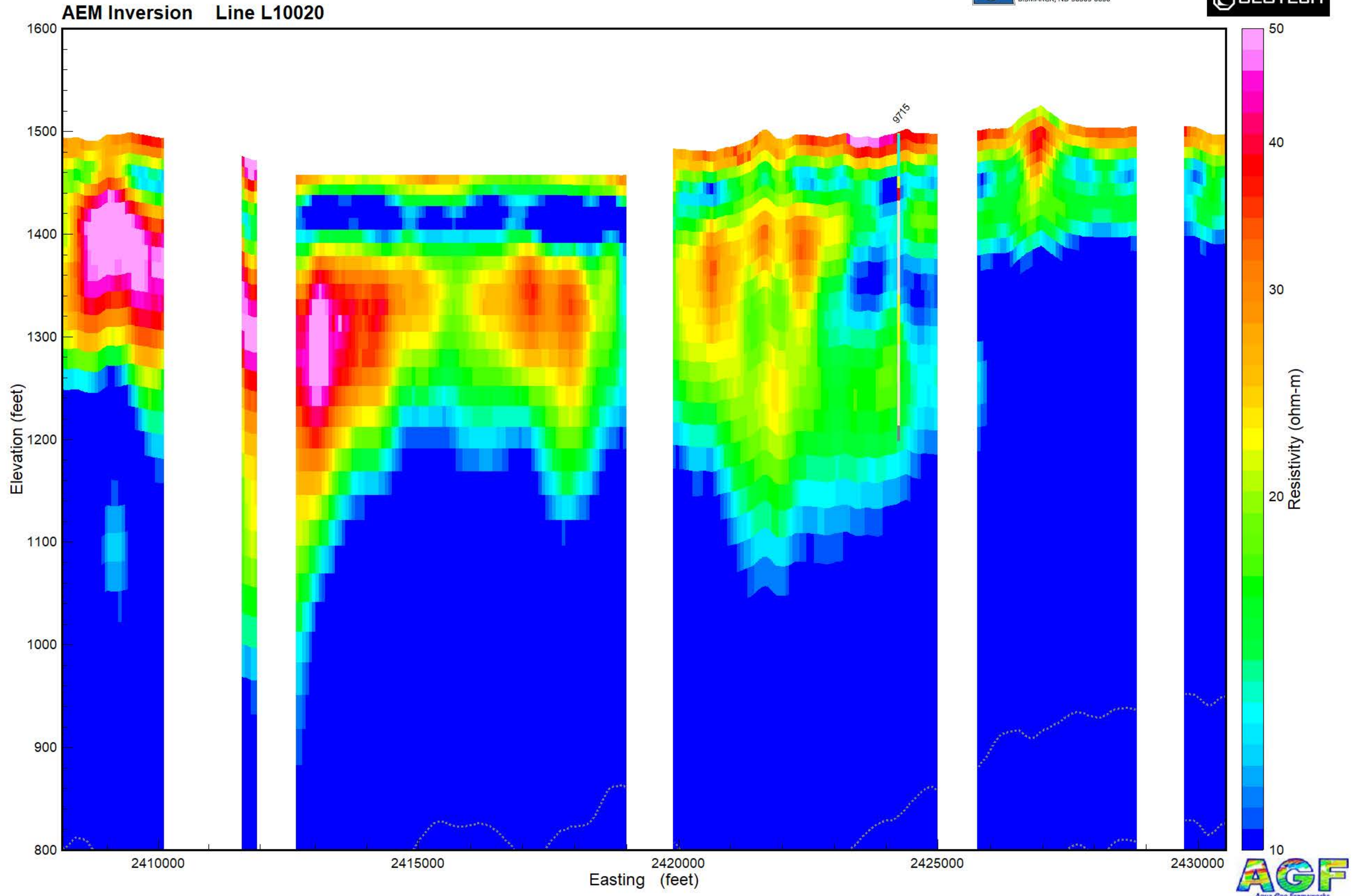






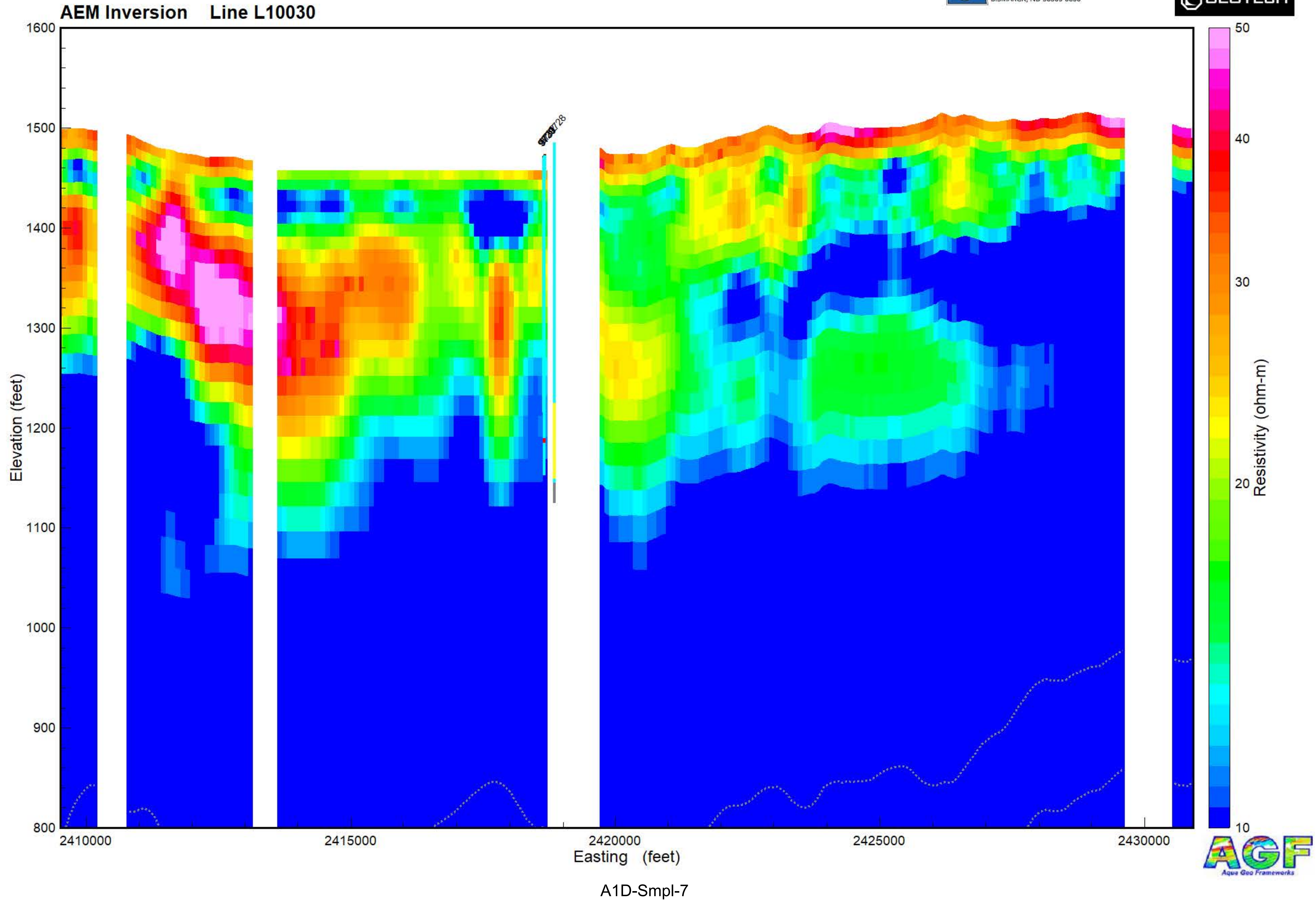




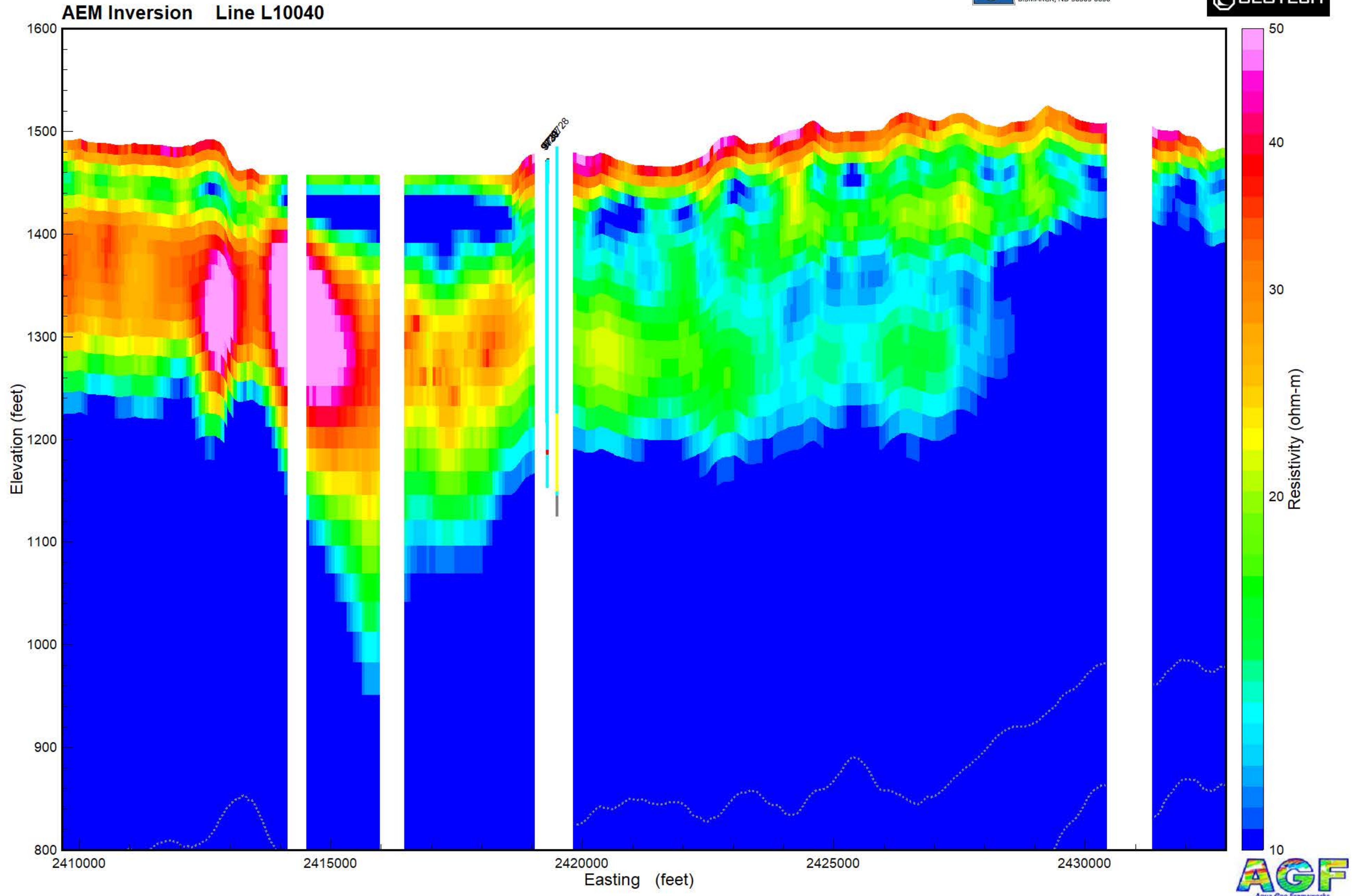


A1D-Smpl-6



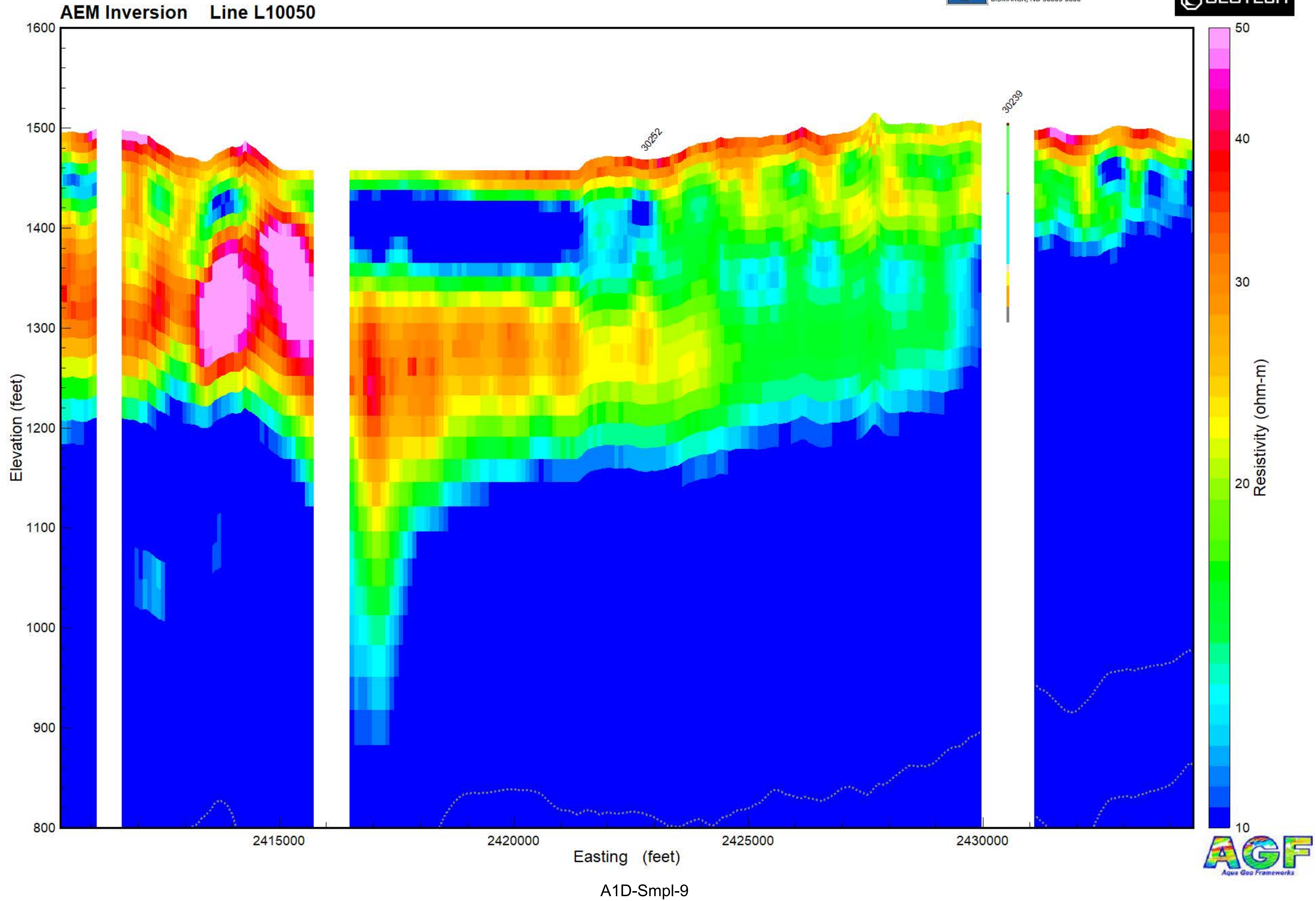




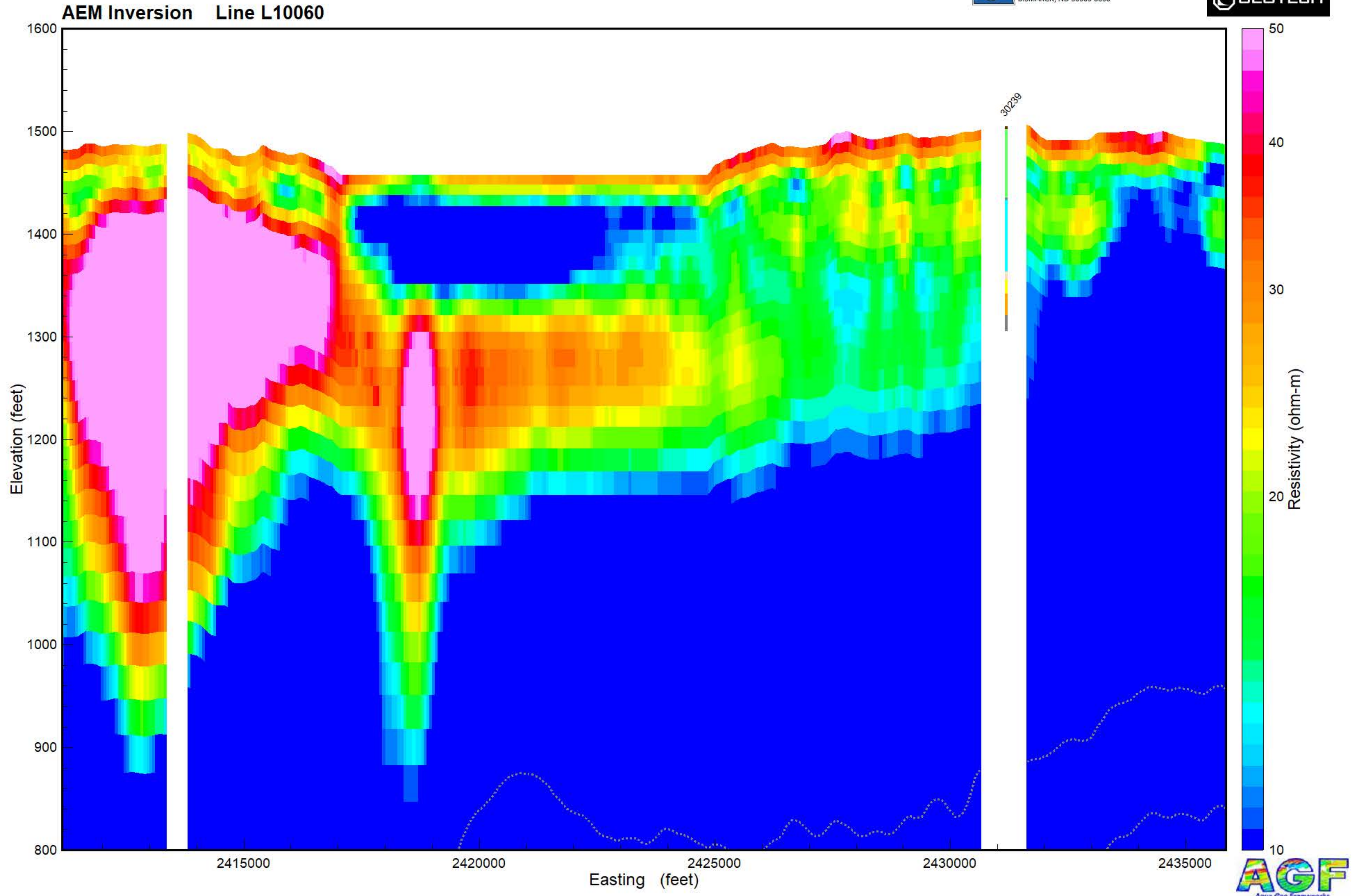


A1D-Smpl-8

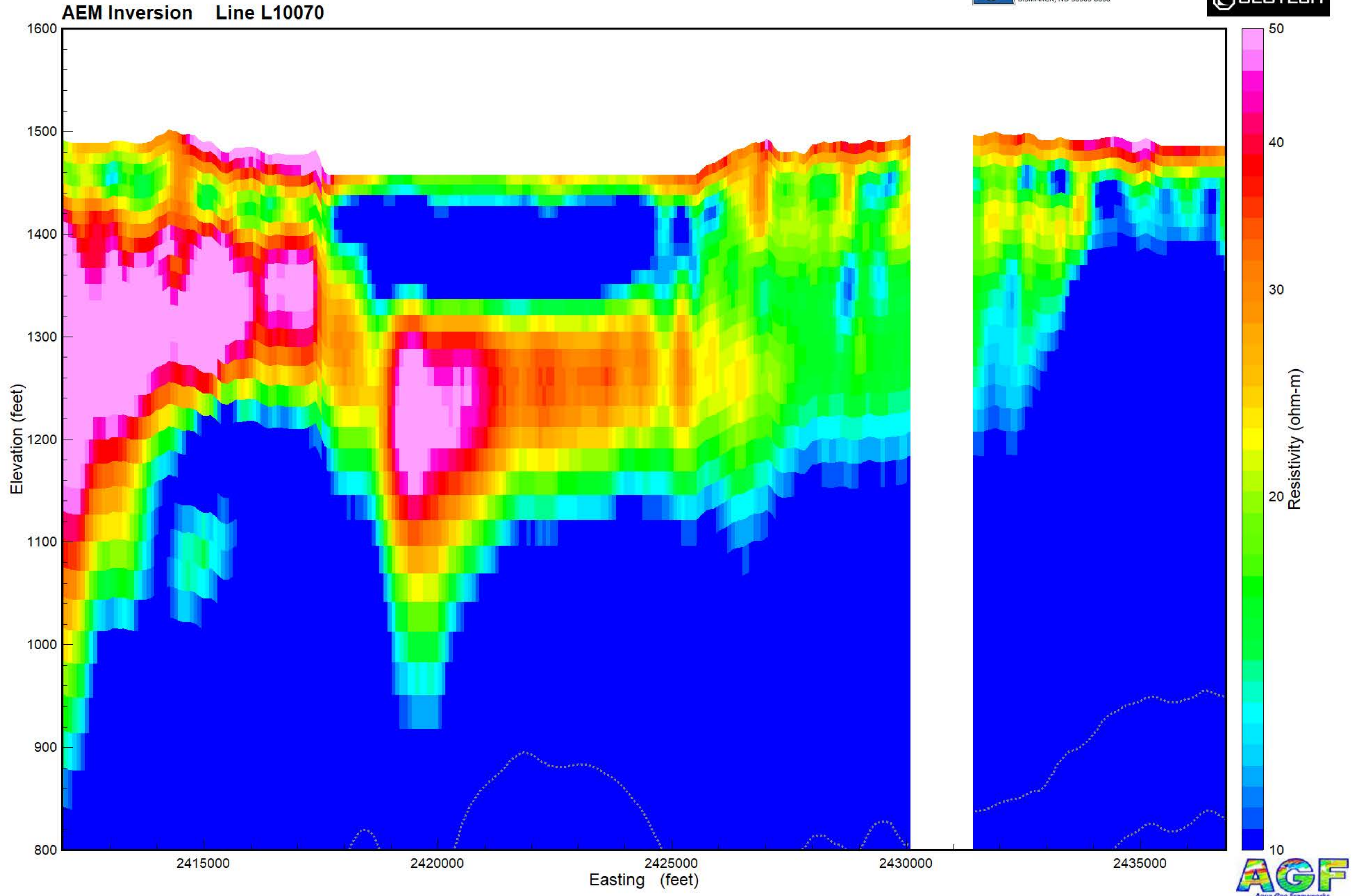




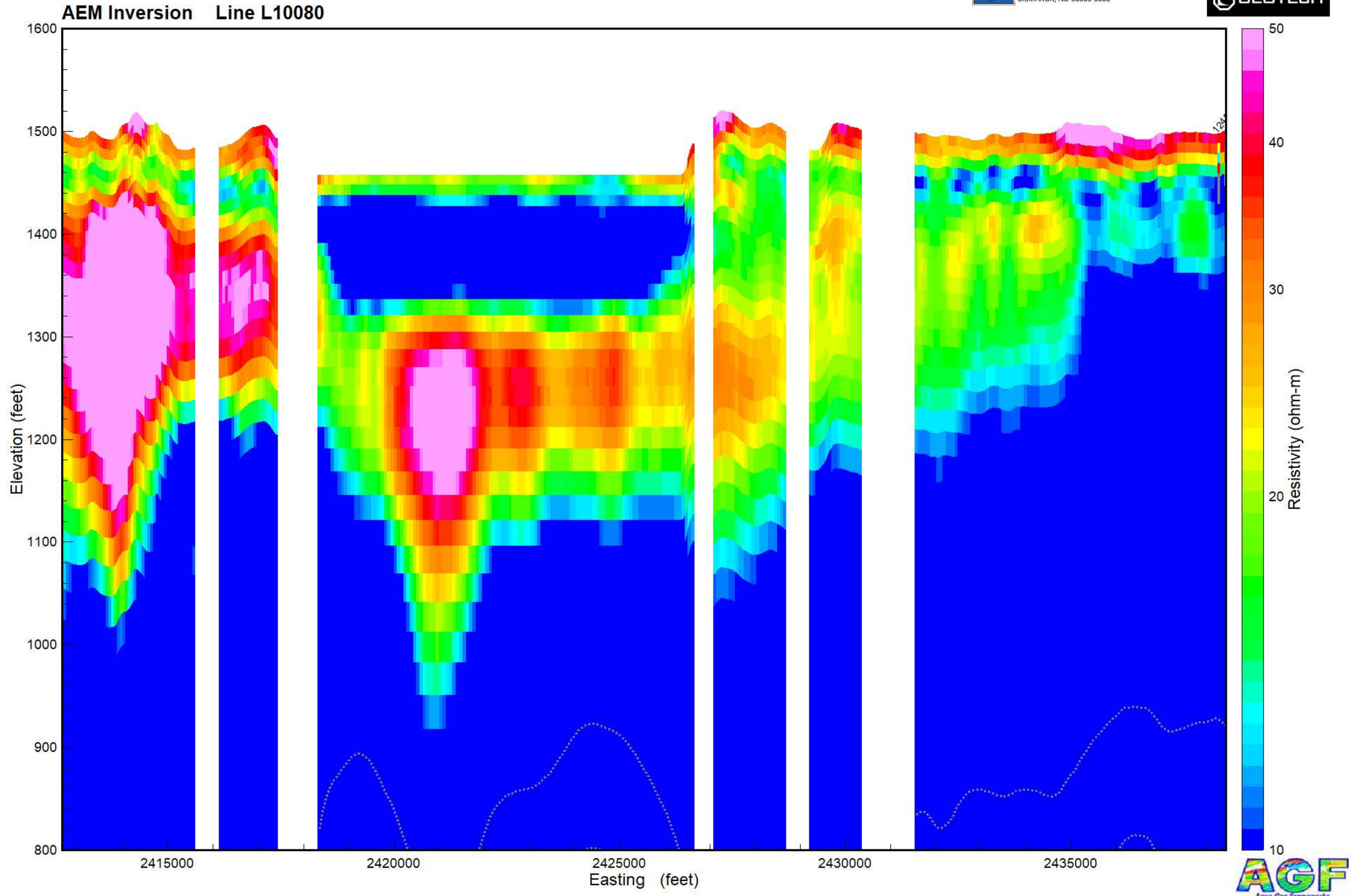




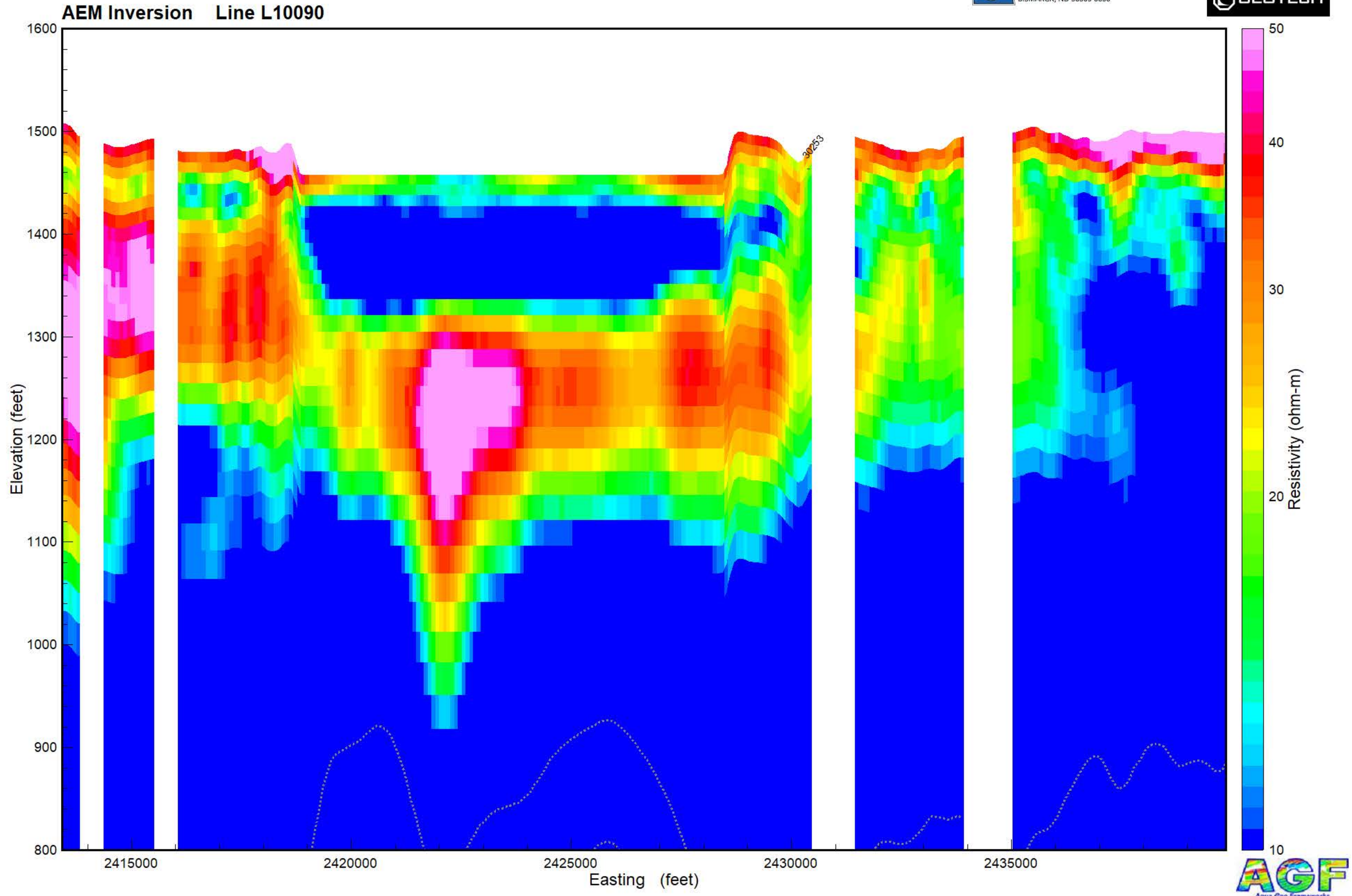




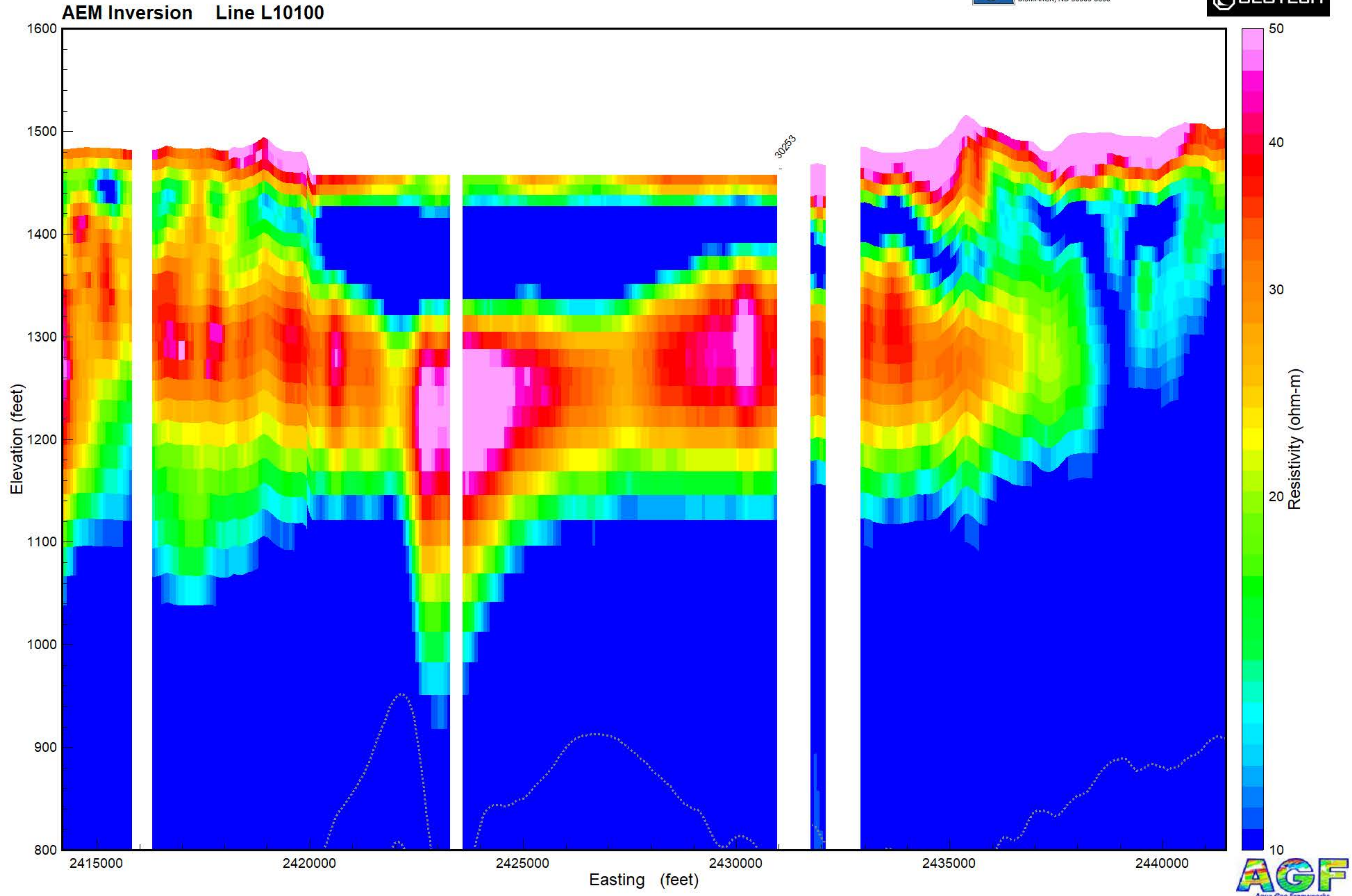




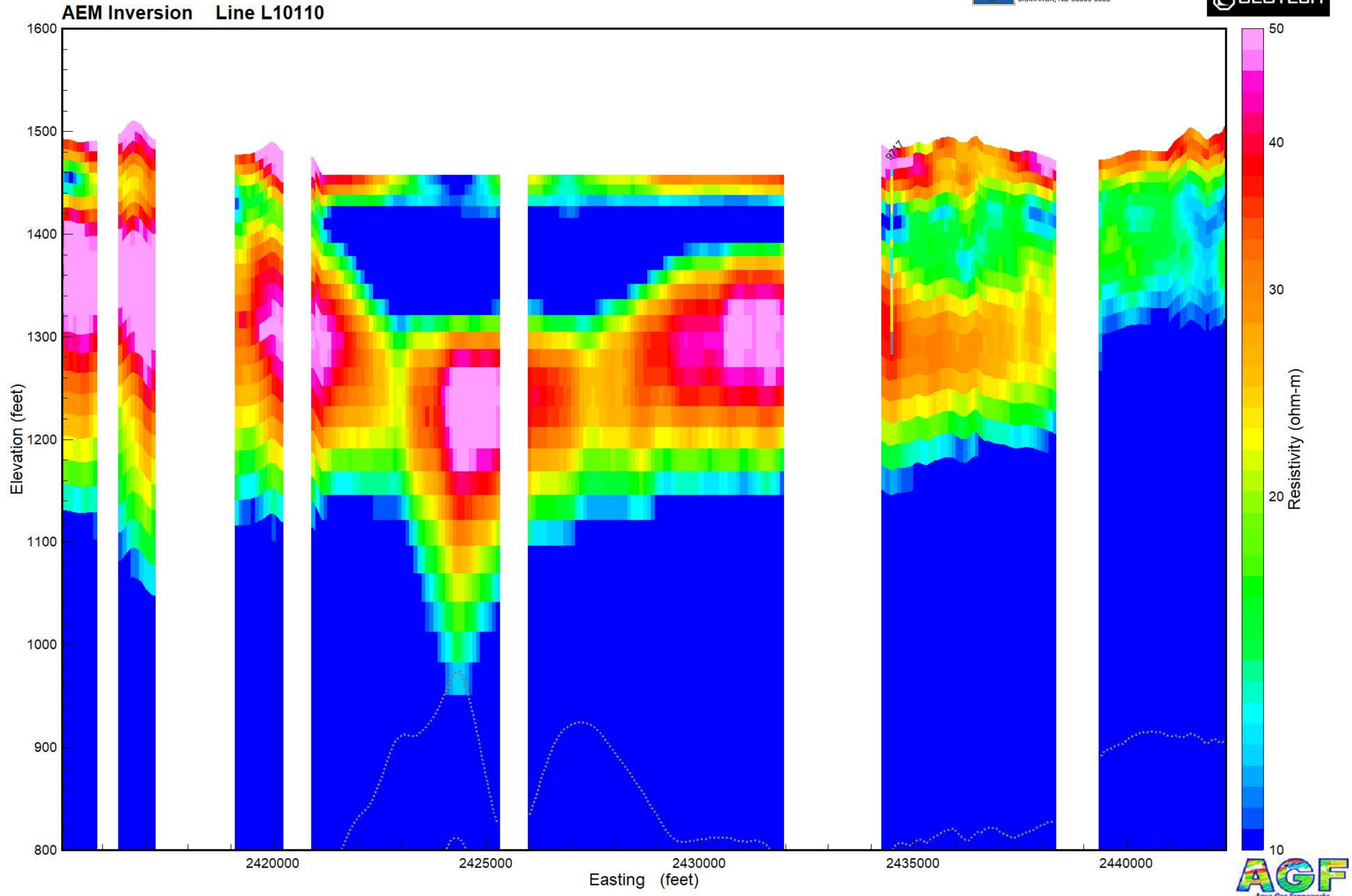












A1D-Smpl-15



