

Appendix 1:

2D Profiles – 2020 MRNRD Inverted AEM Resistivity

Page

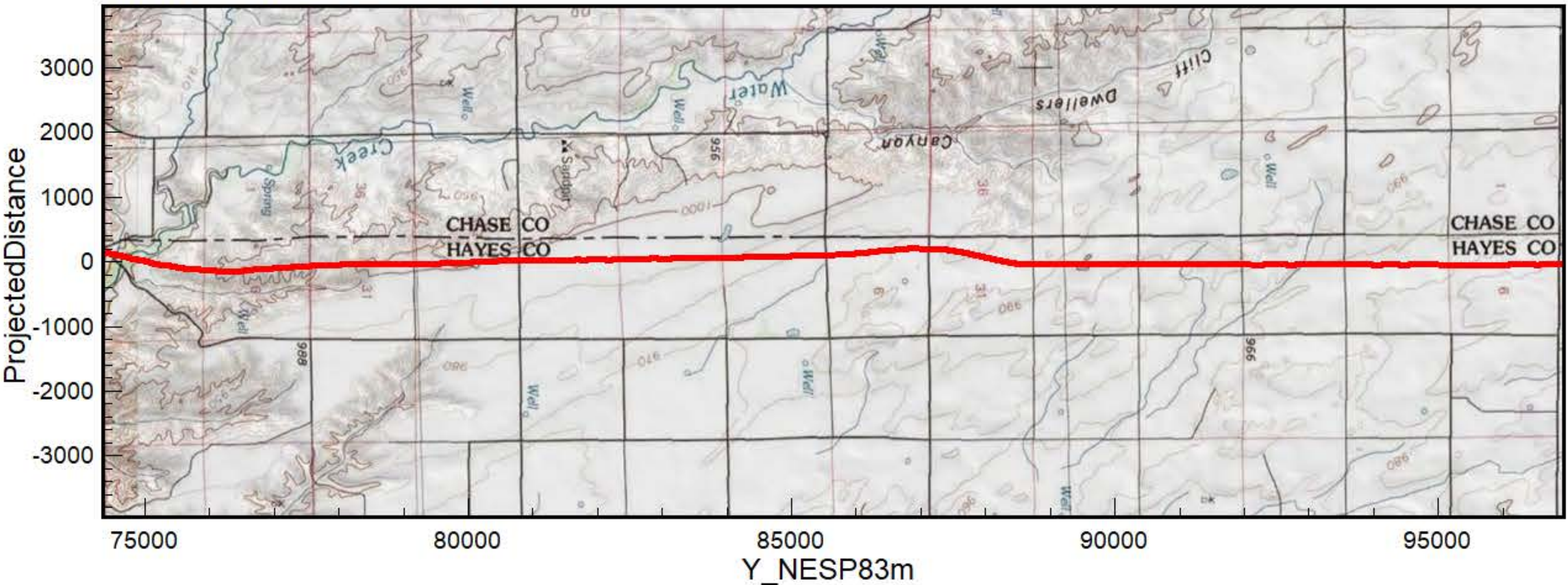
A1-2 – A1-116

This document contains 2D Profiles of the 2020 MRNRD AEM survey area.

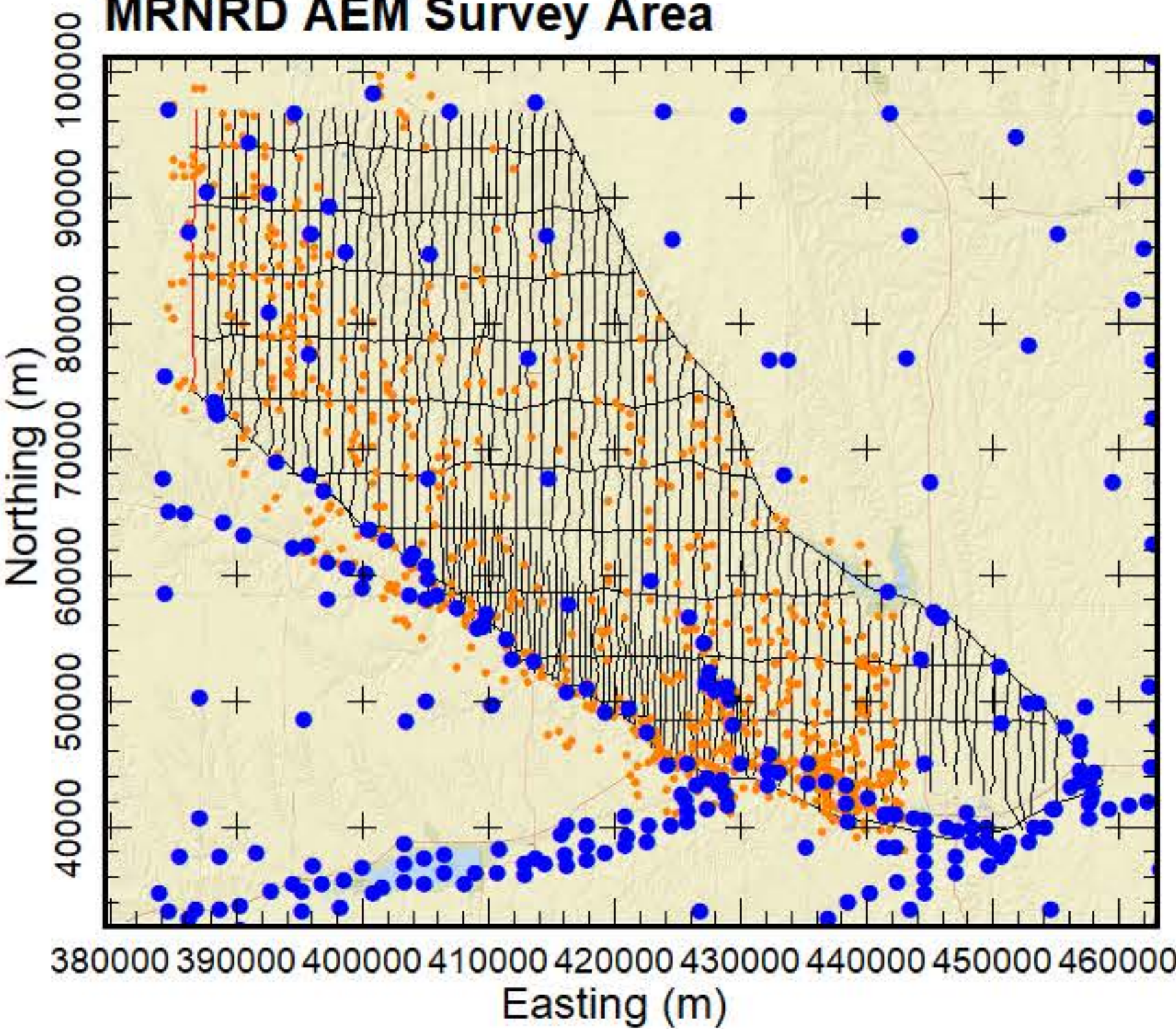
Each page has a flight line map at the top and the inverted resistivity on the bottom



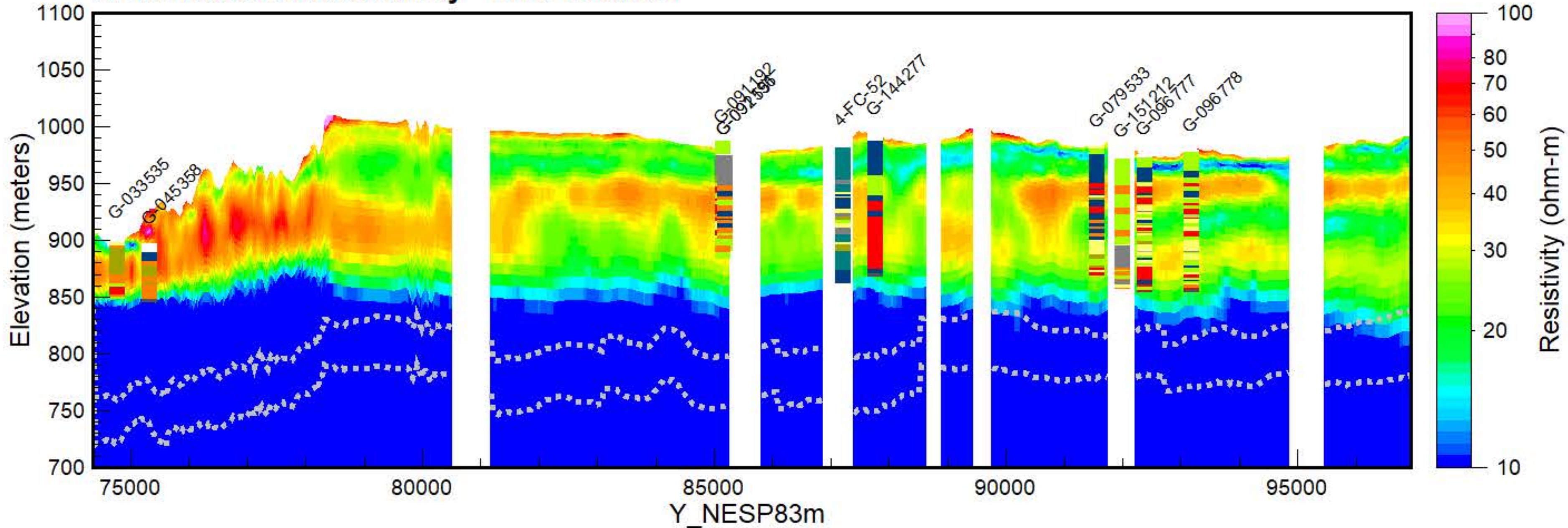
Flight Path Line L100101



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L100101



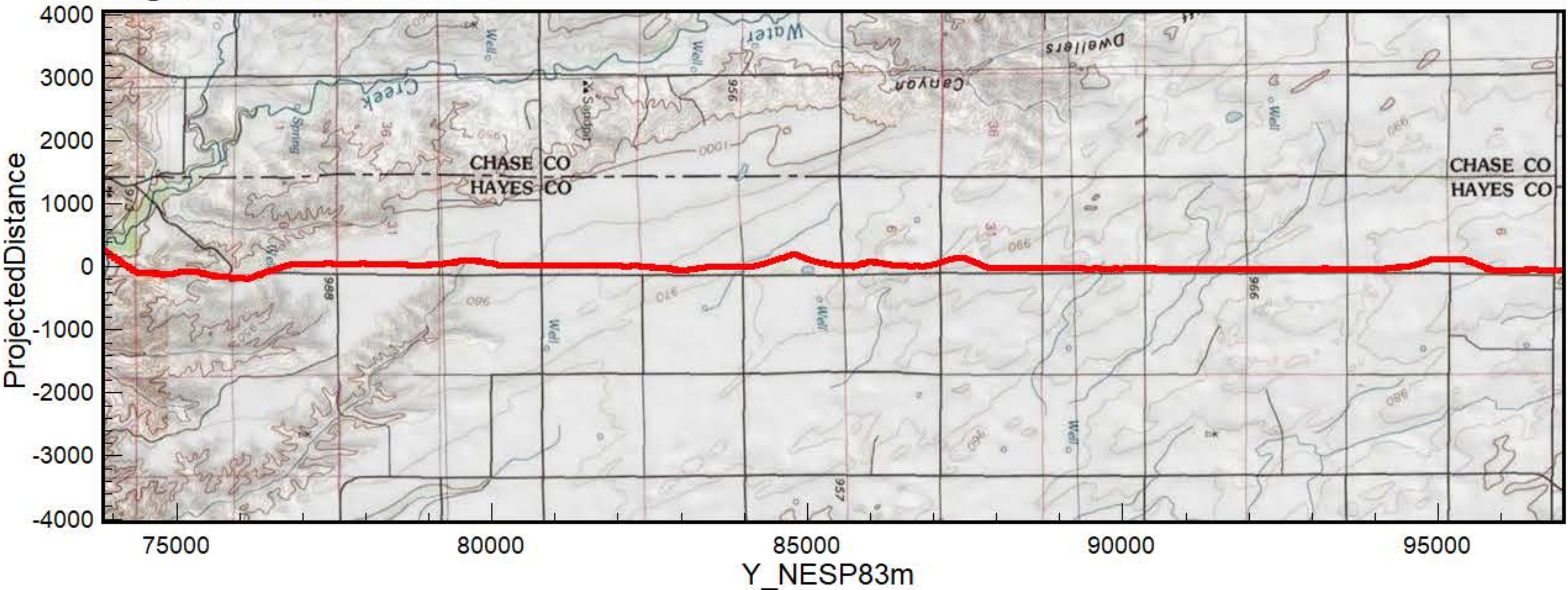
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Grave
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

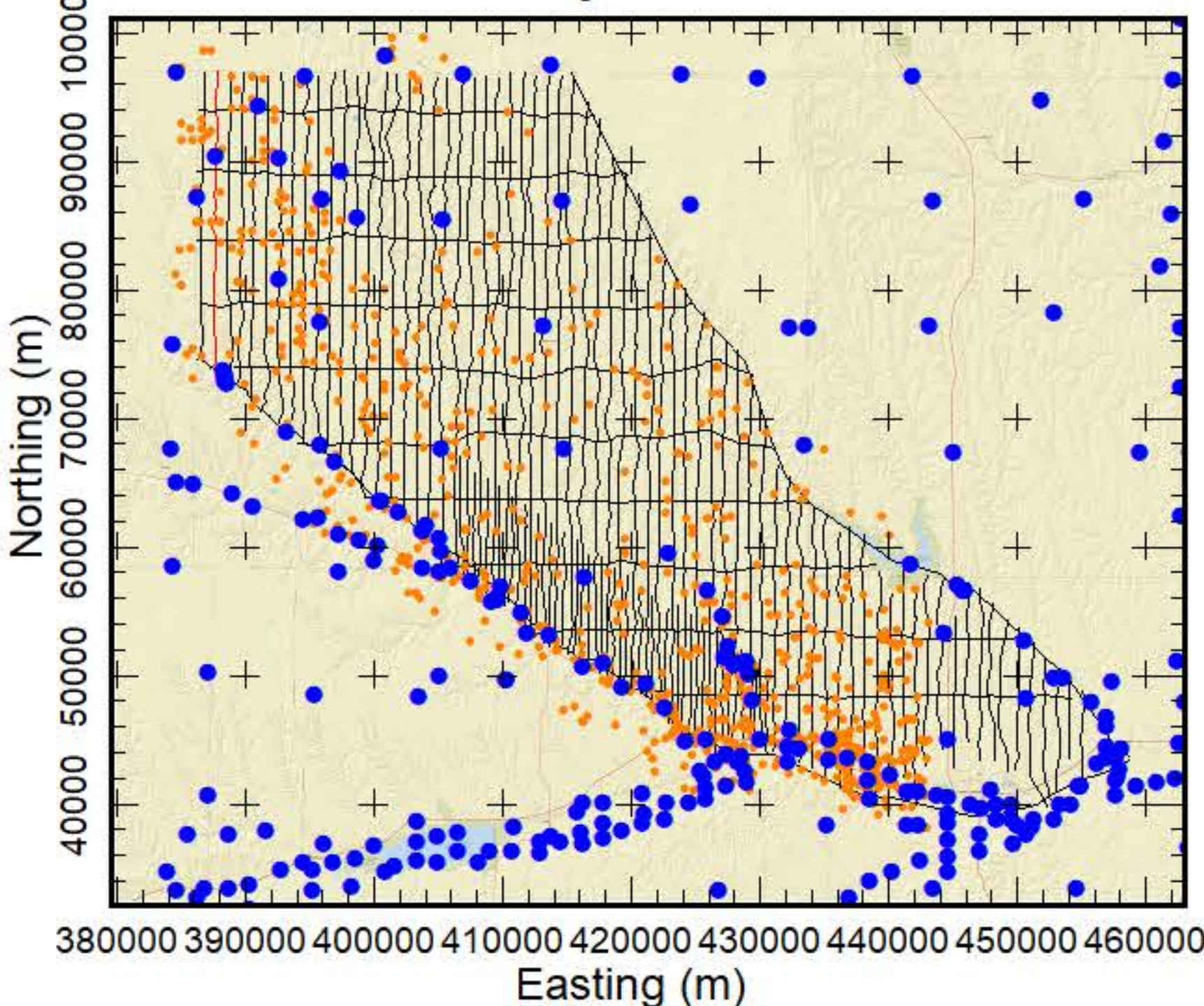




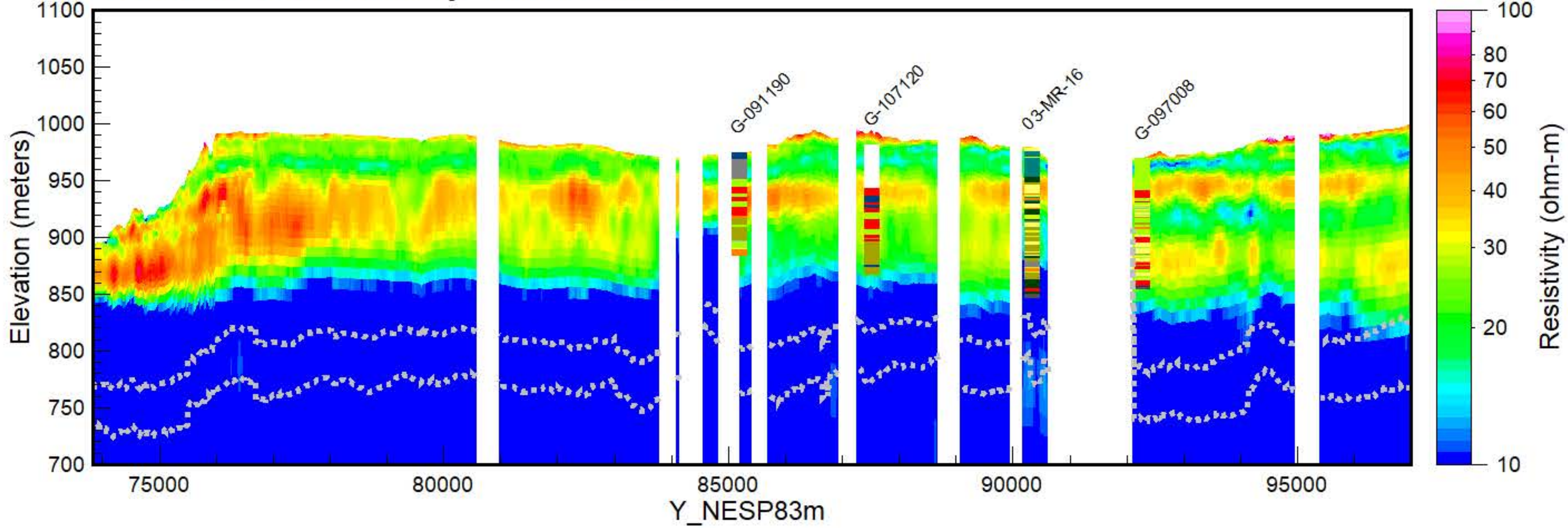
Flight Path Line L100201



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L100201



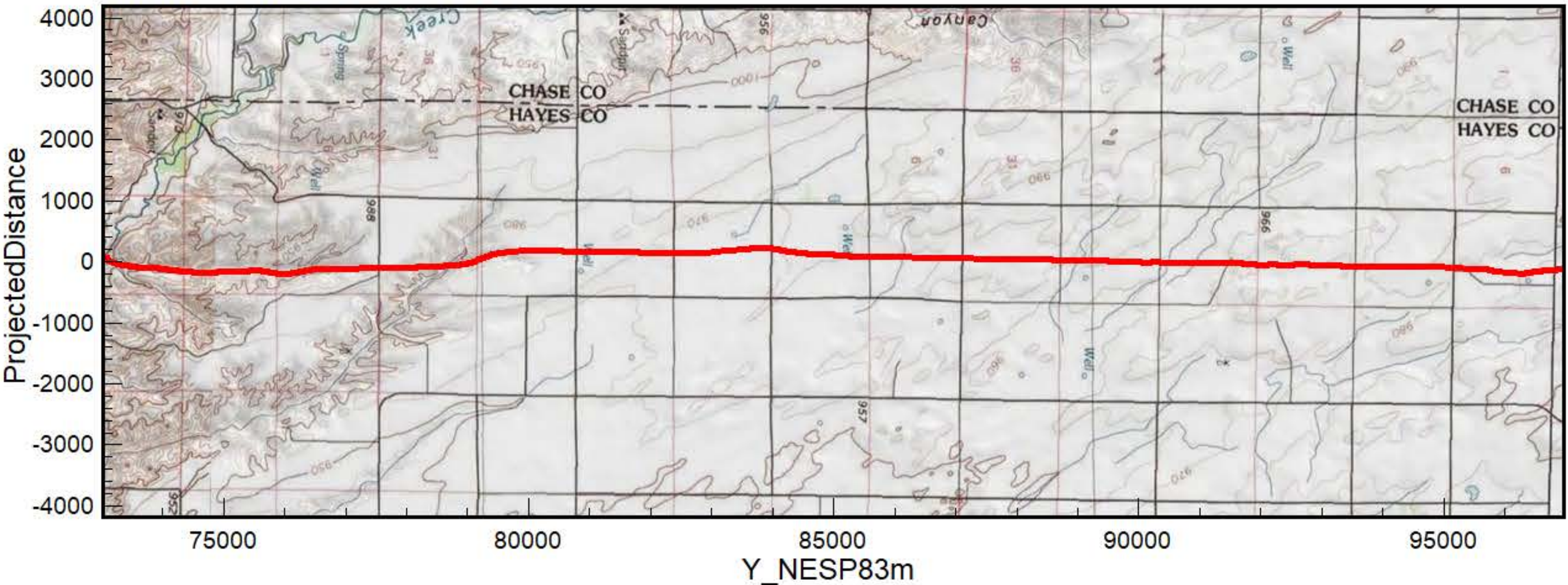
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- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Grave
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

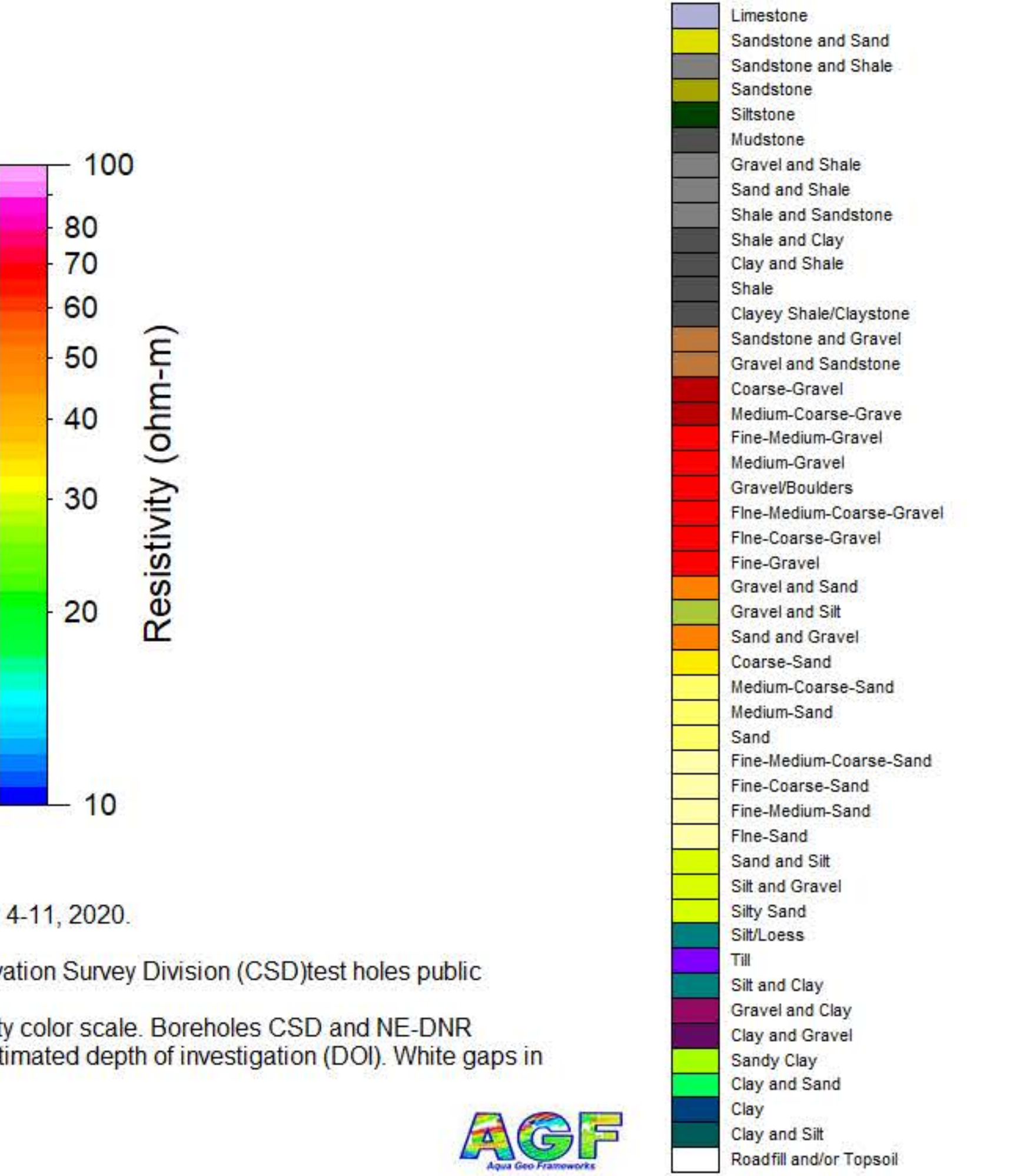
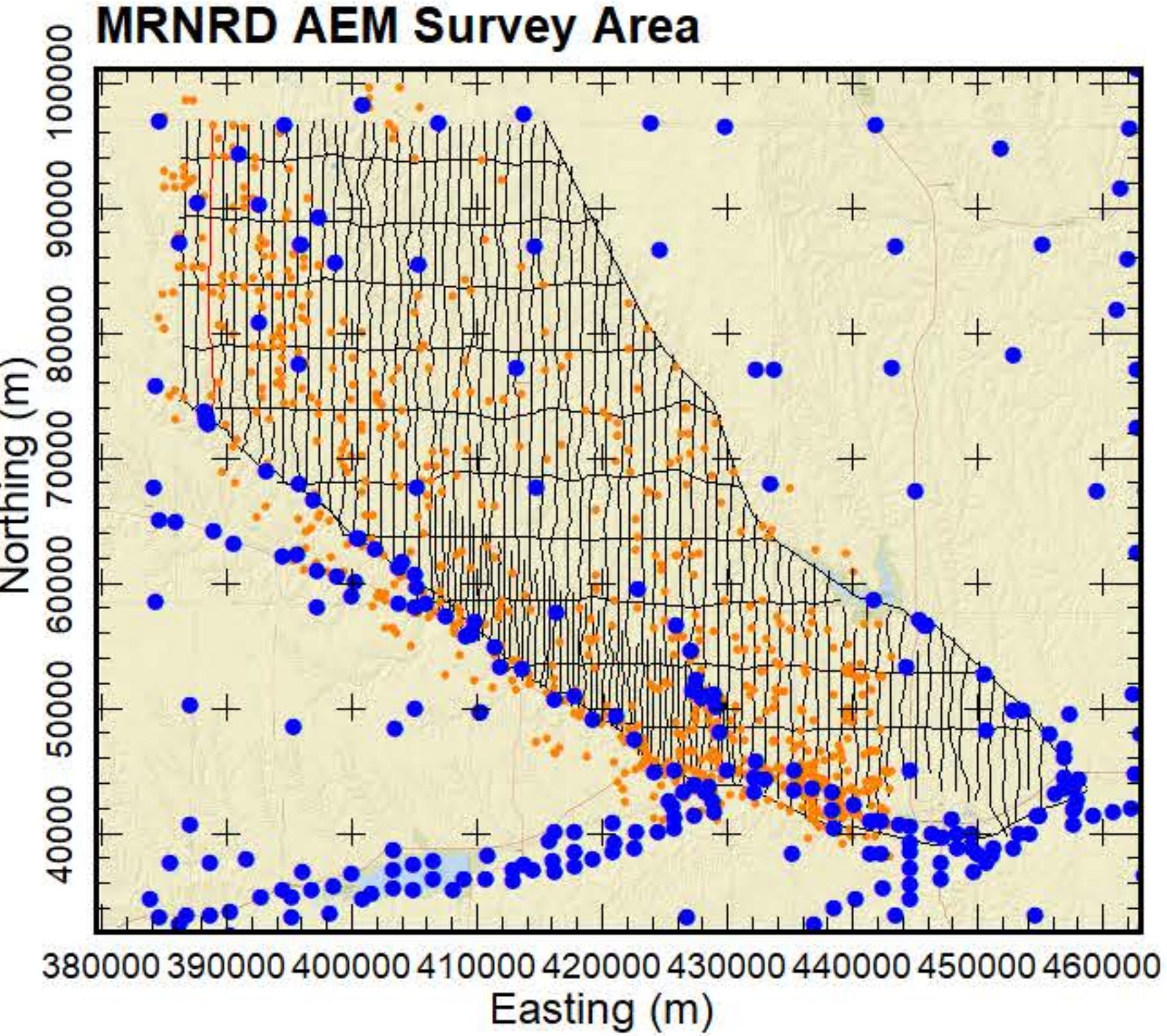
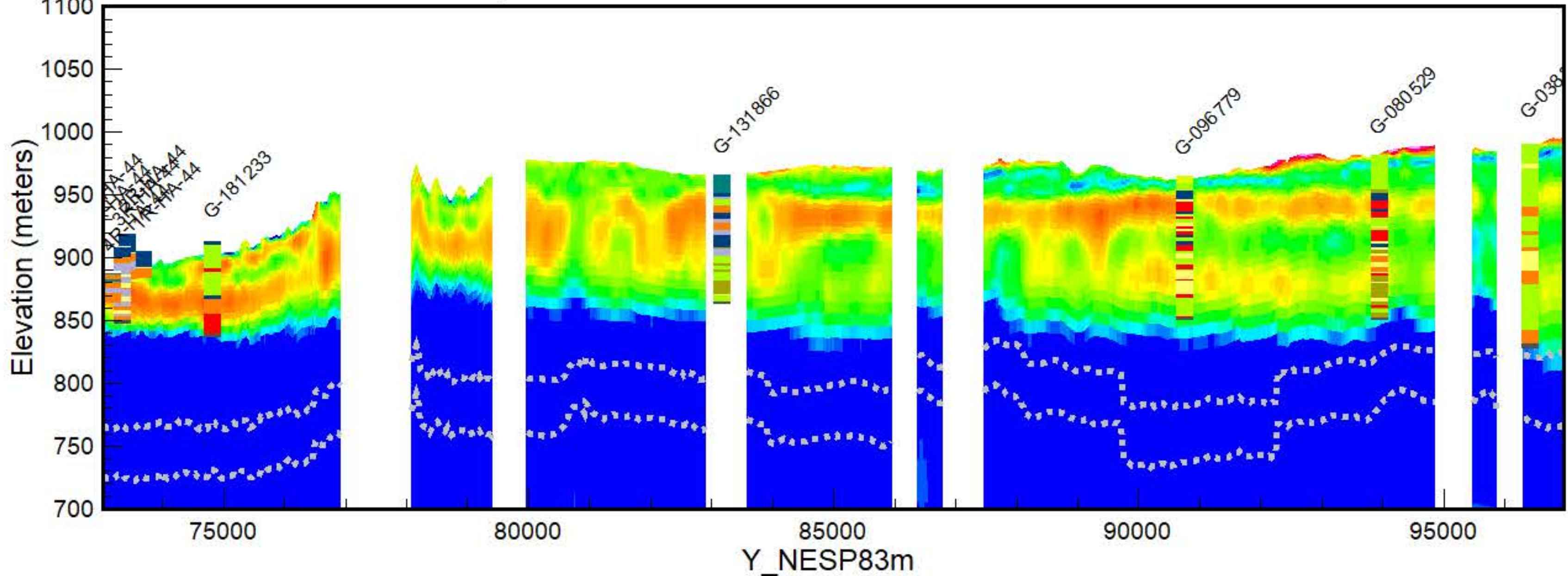




Flight Path Line L100301



AEM Inversion Resistivity Line L100301

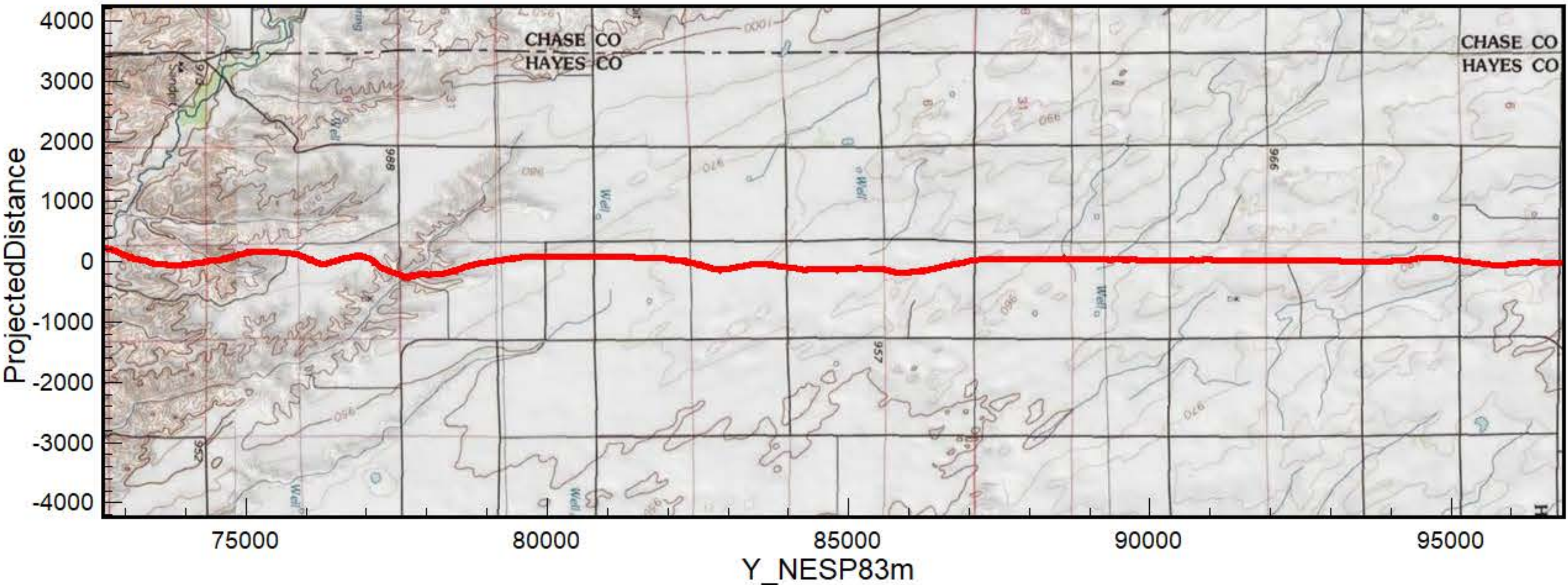


Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

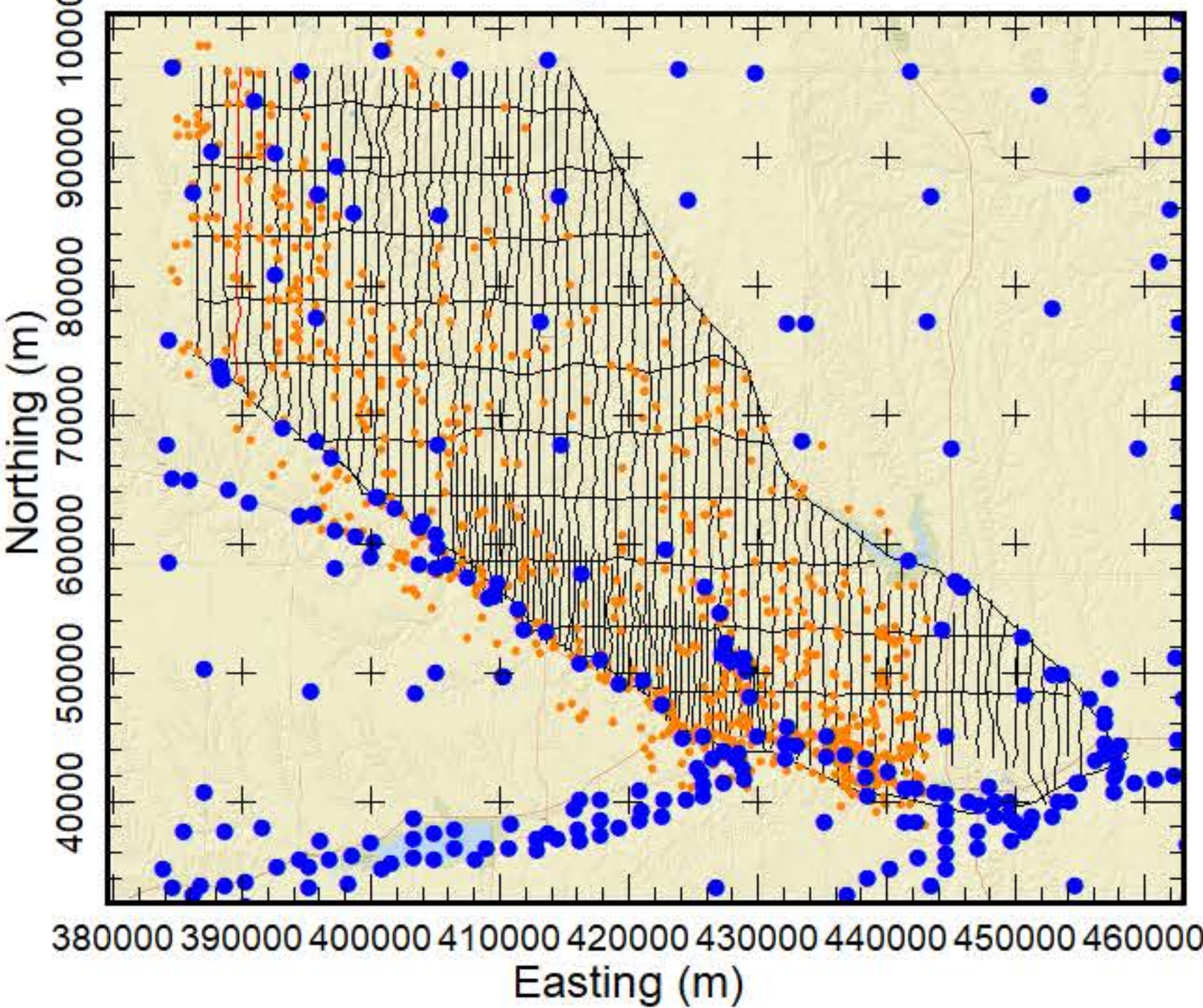




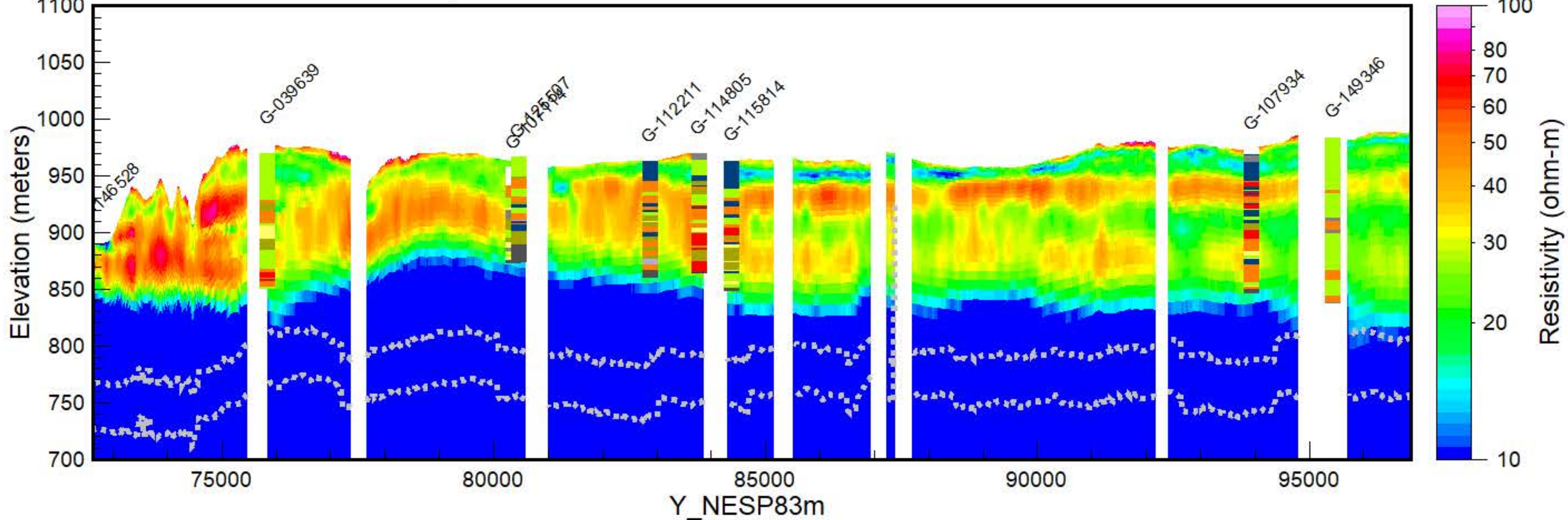
Flight Path Line L100401



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L100401



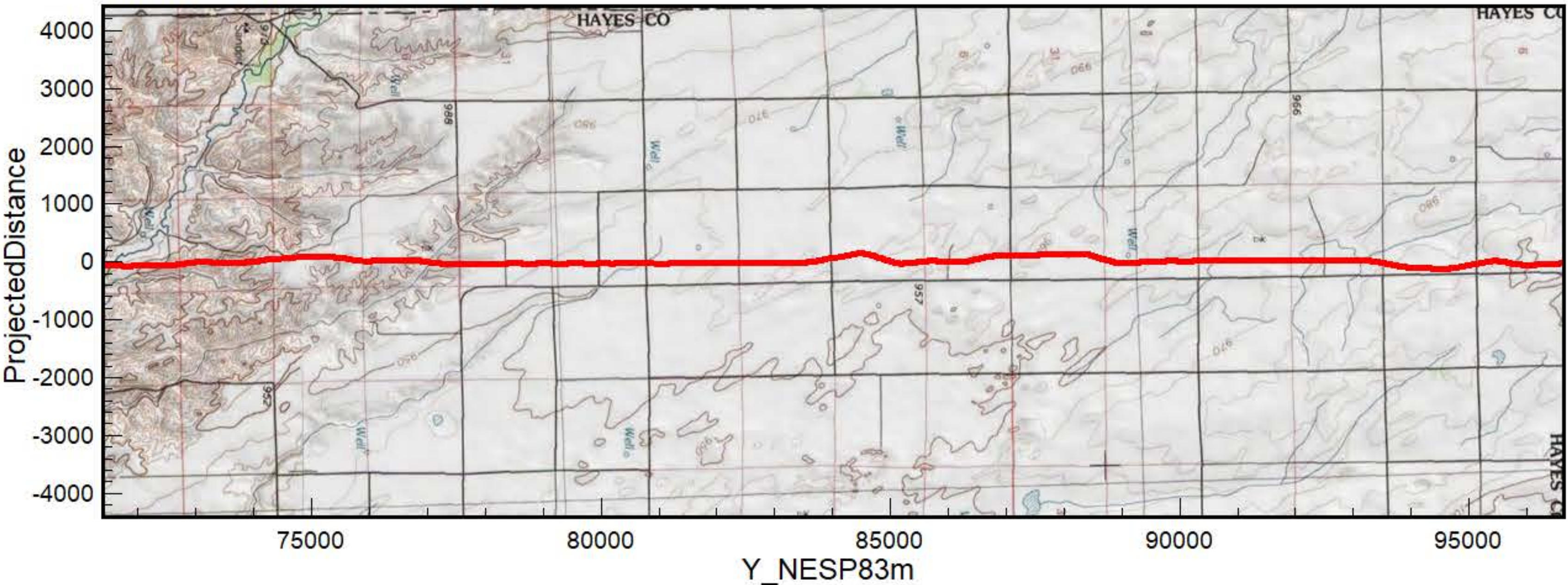
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Grave
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

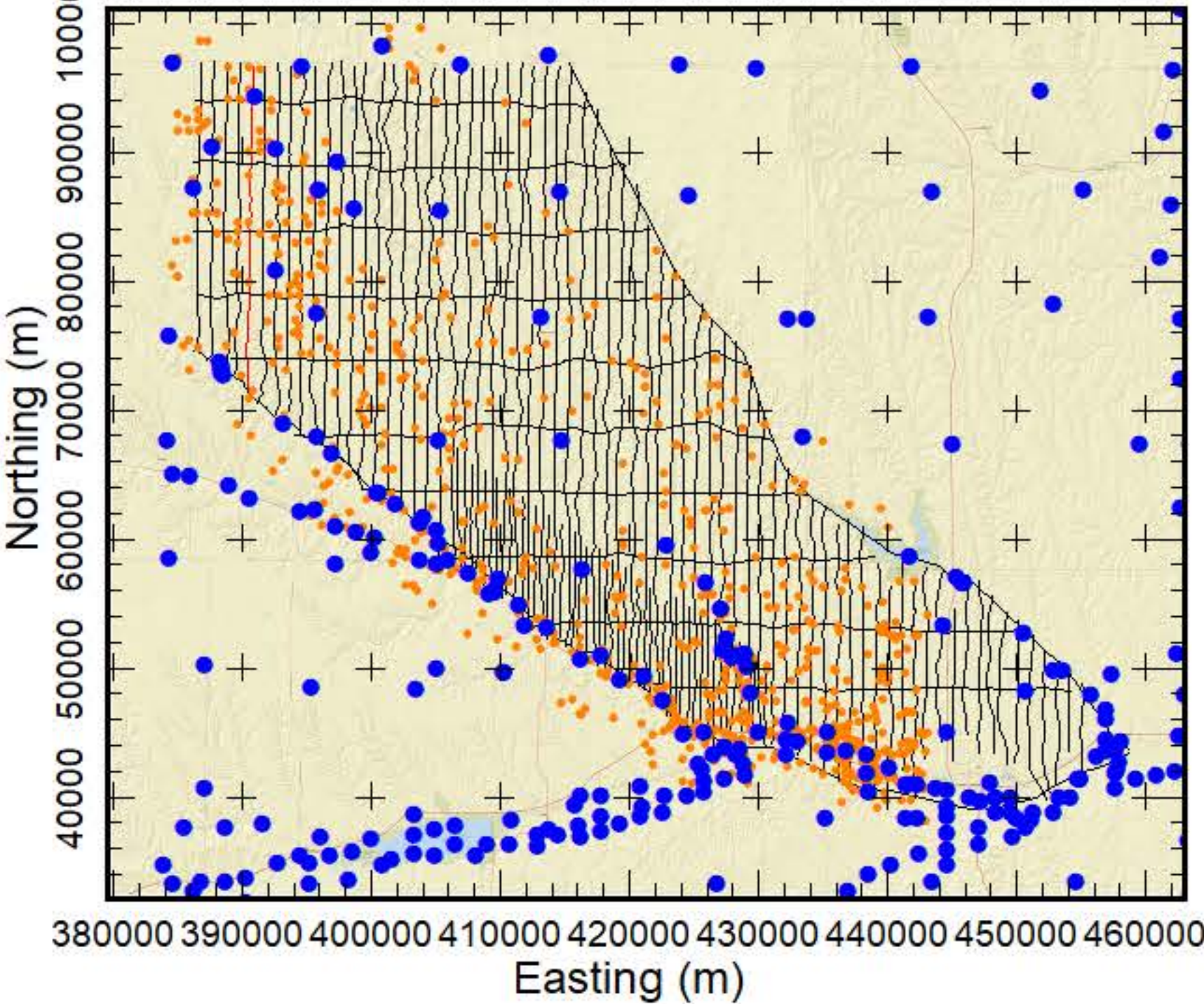




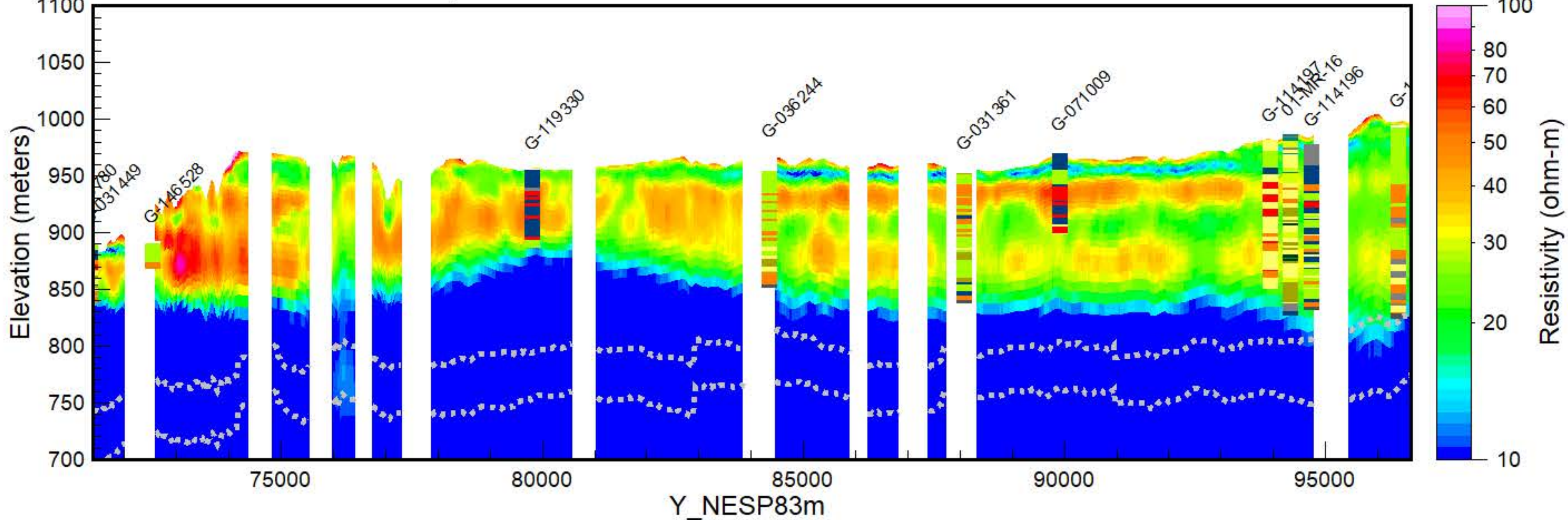
Flight Path Line L100501



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L100501



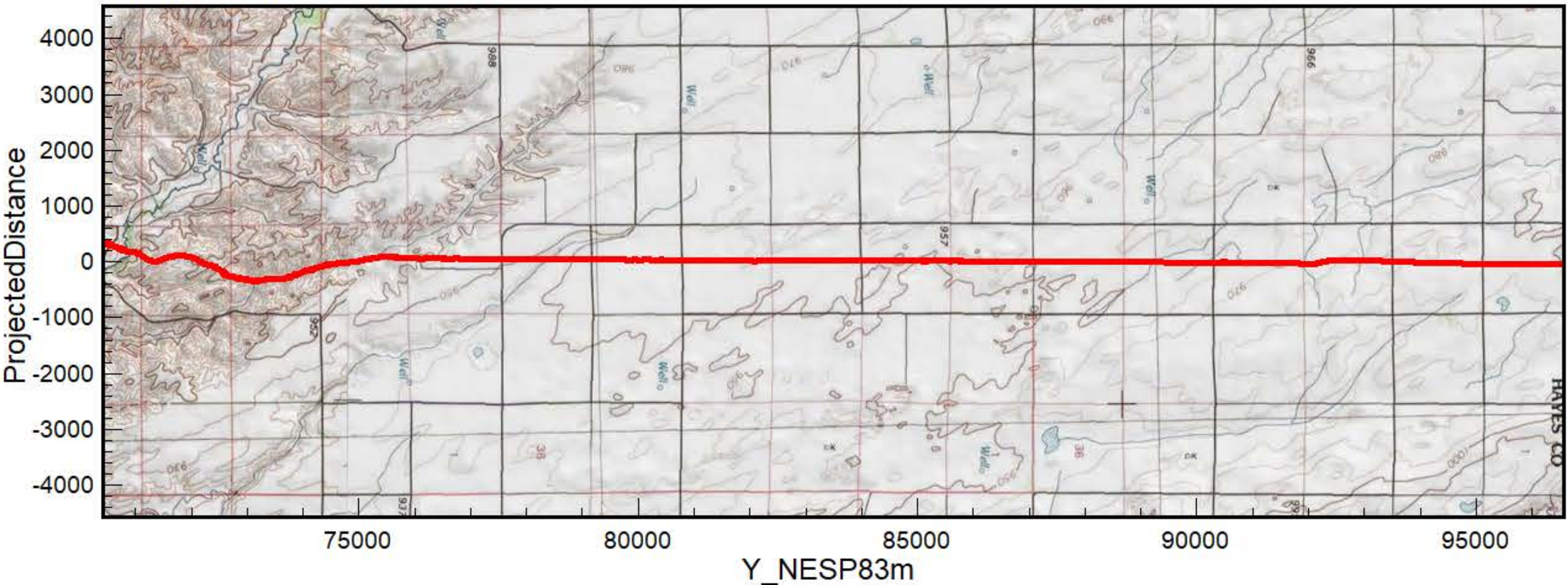
	Limestone
	Sandstone and Sand
	Sandstone and Shale
	Sandstone
	Siltstone
	Mudstone
	Gravel and Shale
	Sand and Shale
	Shale and Sandstone
	Shale and Clay
	Clay and Shale
	Shale
	Clayey Shale/Claystone
	Sandstone and Gravel
	Gravel and Sandstone
	Coarse-Gravel
	Medium-Coarse-Grave
	Fine-Medium-Gravel
	Medium-Gravel
	Gravel/Boulders
	Fine-Medium-Coarse-Gravel
	Fine-Coarse-Gravel
	Fine-Gravel
	Gravel and Sand
	Gravel and Silt
	Sand and Gravel
	Coarse-Sand
	Medium-Coarse-Sand
	Medium-Sand
	Sand
	Fine-Medium-Coarse-Sand
	Fine-Coarse-Sand
	Fine-Medium-Sand
	Fine-Sand
	Sand and Silt
	Silt and Gravel
	Silty Sand
	Silt/Loess
	Till
	Silt and Clay
	Gravel and Clay
	Clay and Gravel
	Sandy Clay
	Clay and Sand
	Clay
	Clay and Silt
	Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

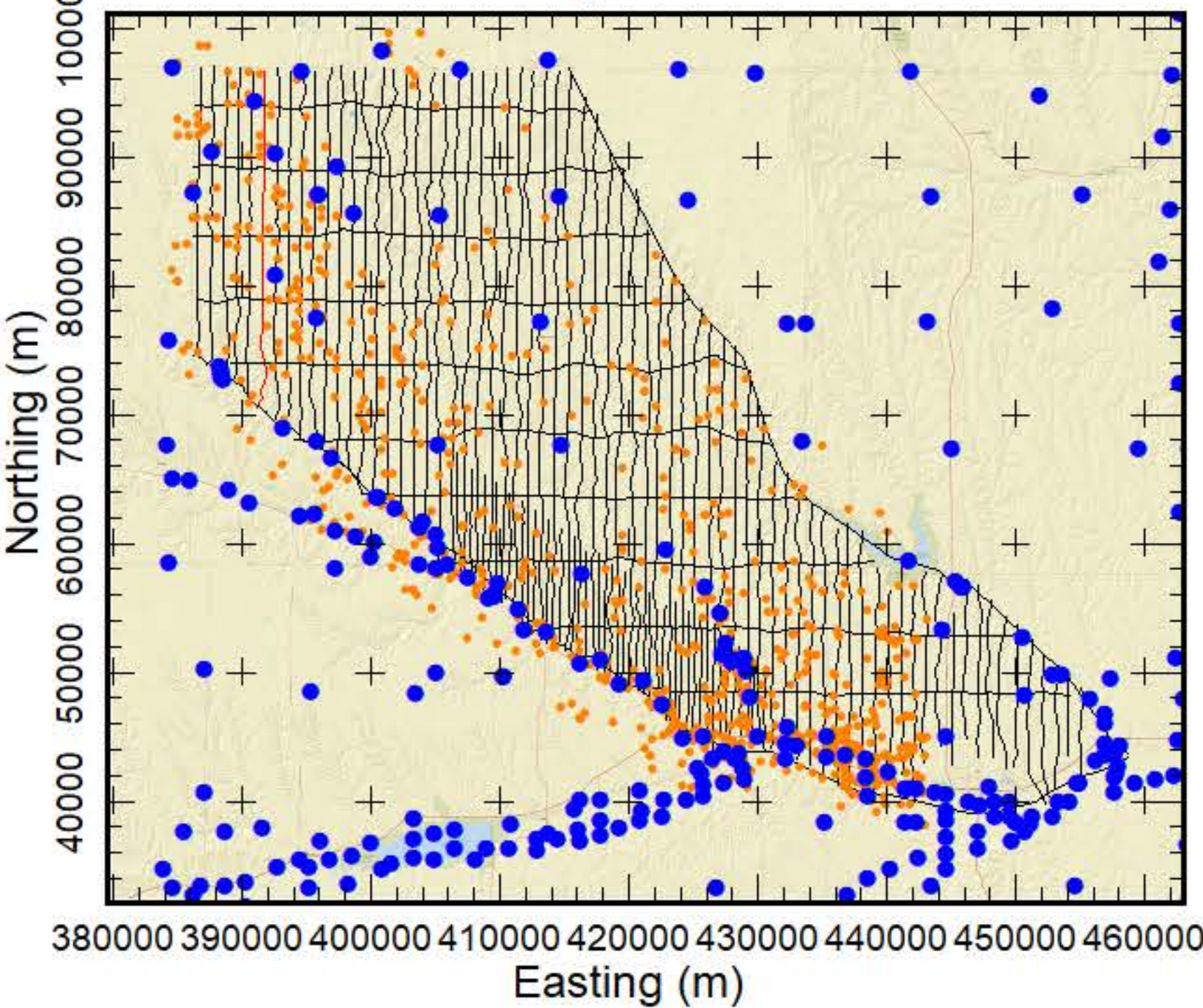




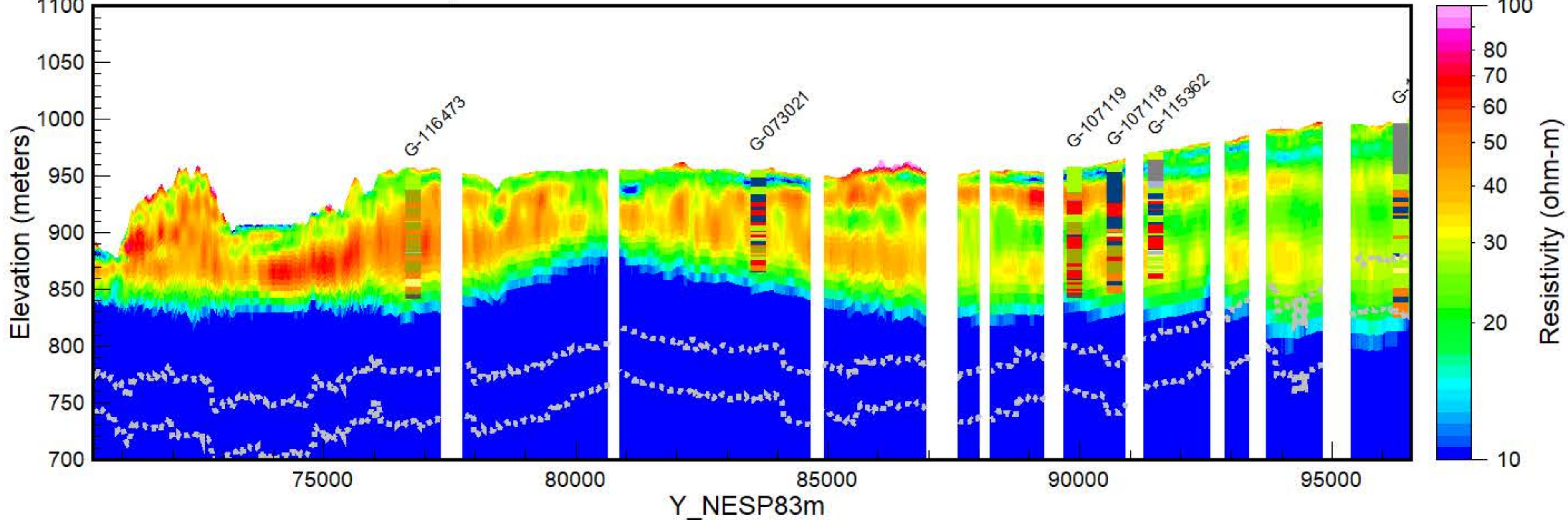
Flight Path Line L100601



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L100601



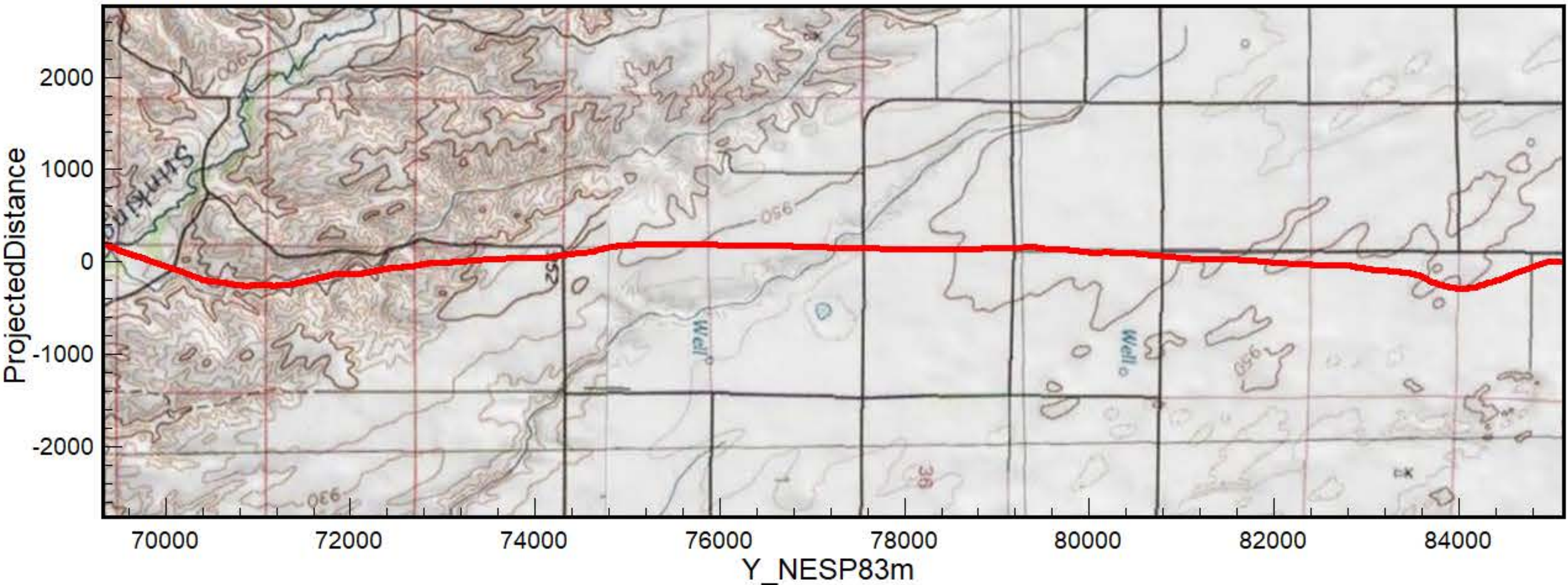
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	Sandstone and Shale
	Sandstone
	Siltstone
	Mudstone
	Gravel and Shale
	Sand and Shale
	Shale and Sandstone
	Shale and Clay
	Clay and Shale
	Shale
	Clayey Shale/Claystone
	Sandstone and Gravel
	Gravel and Sandstone
	Coarse-Gravel
	Medium-Coarse-Grave
	Fine-Medium-Gravel
	Medium-Gravel
	Gravel/Boulders
	Fine-Medium-Coarse-Gravel
	Fine-Coarse-Gravel
	Fine-Gravel
	Gravel and Sand
	Gravel and Silt
	Sand and Gravel
	Coarse-Sand
	Medium-Coarse-Sand
	Medium-Sand
	Sand
	Fine-Medium-Coarse-Sand
	Fine-Coarse-Sand
	Fine-Medium-Sand
	Fine-Sand
	Sand and Silt
	Silt and Gravel
	Silty Sand
	Silt/Loess
	Till
	Silt and Clay
	Gravel and Clay
	Clay and Gravel
	Sandy Clay
	Clay and Sand
	Clay
	Clay and Silt
	Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

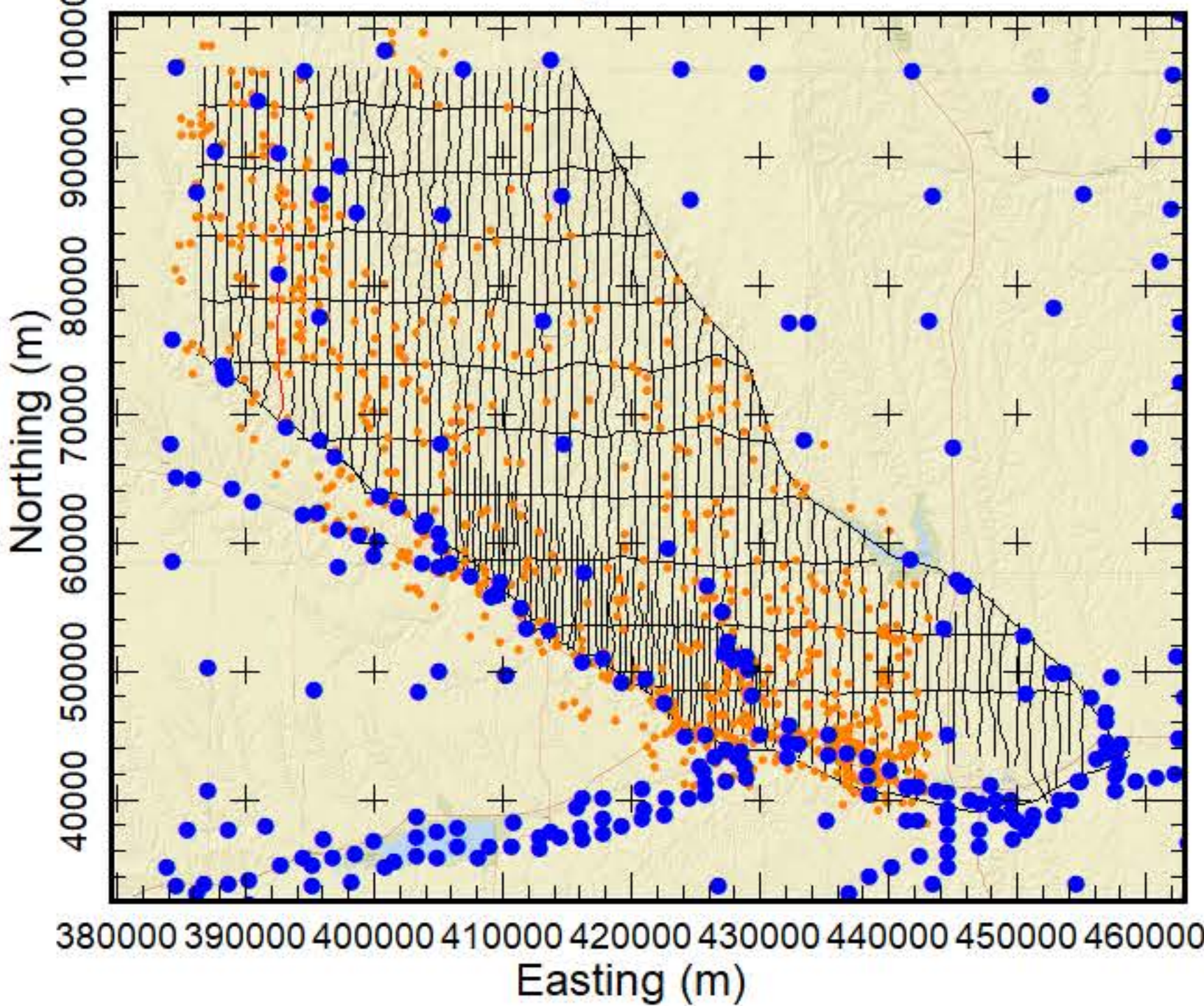




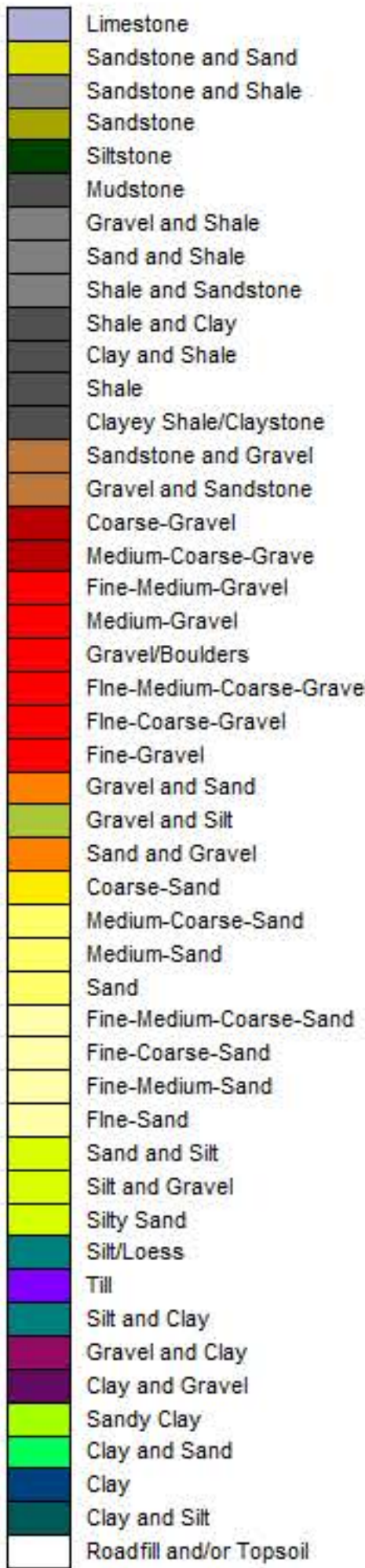
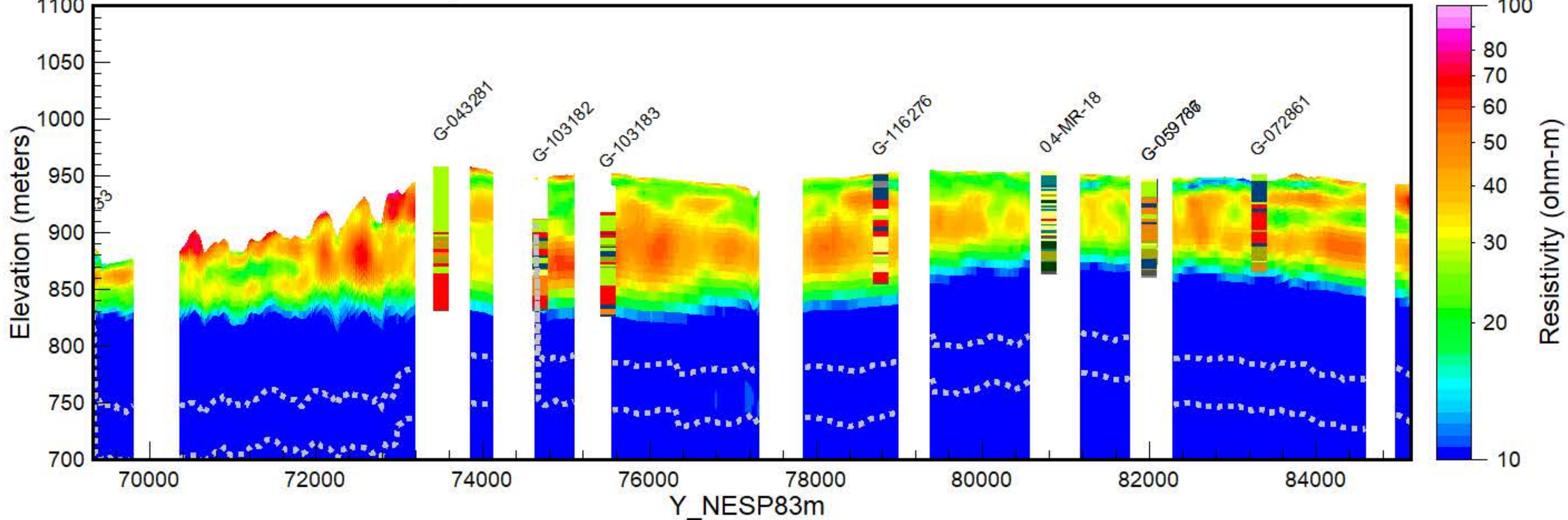
Flight Path Line L100701



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L100701

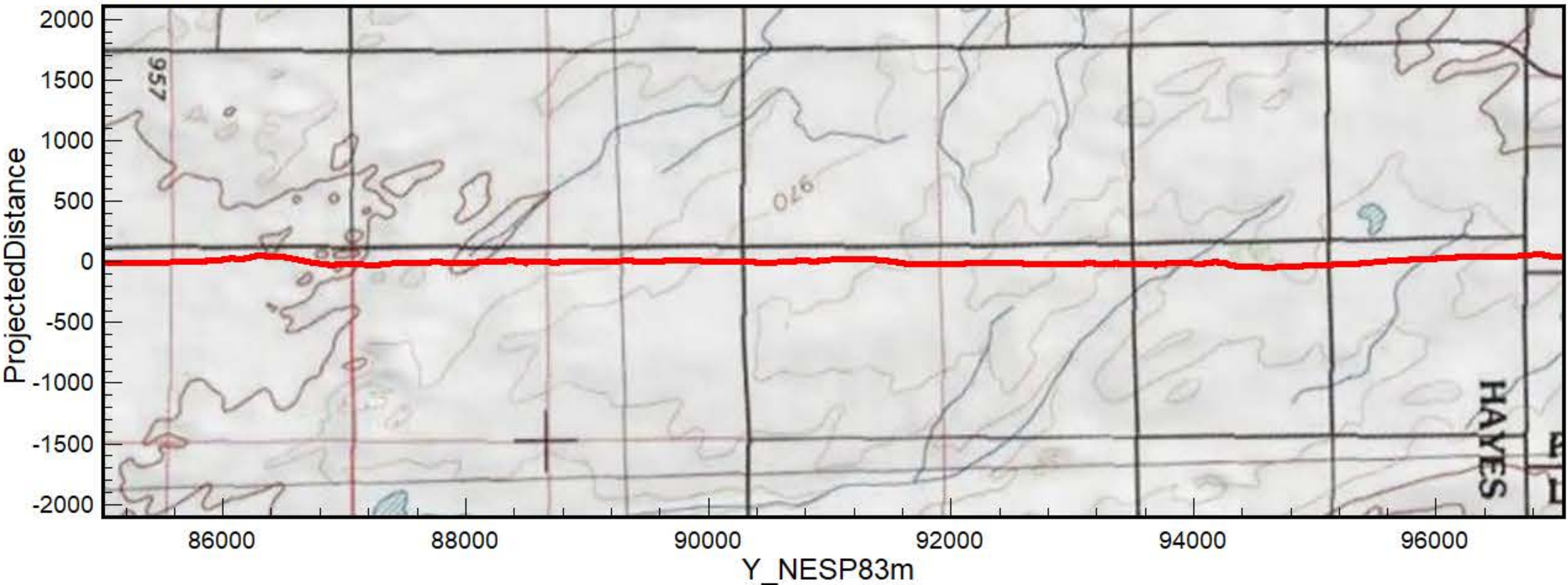


Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

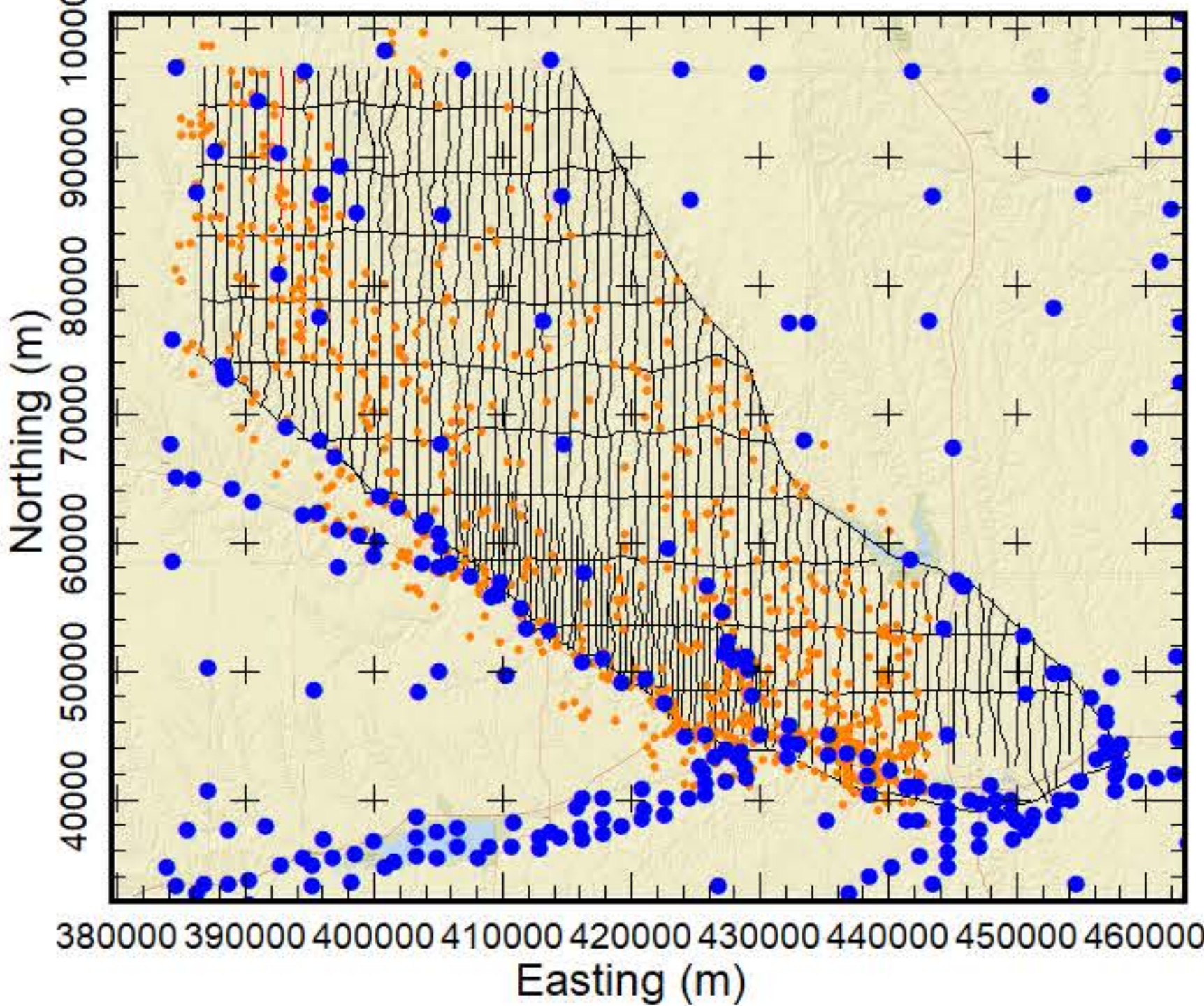




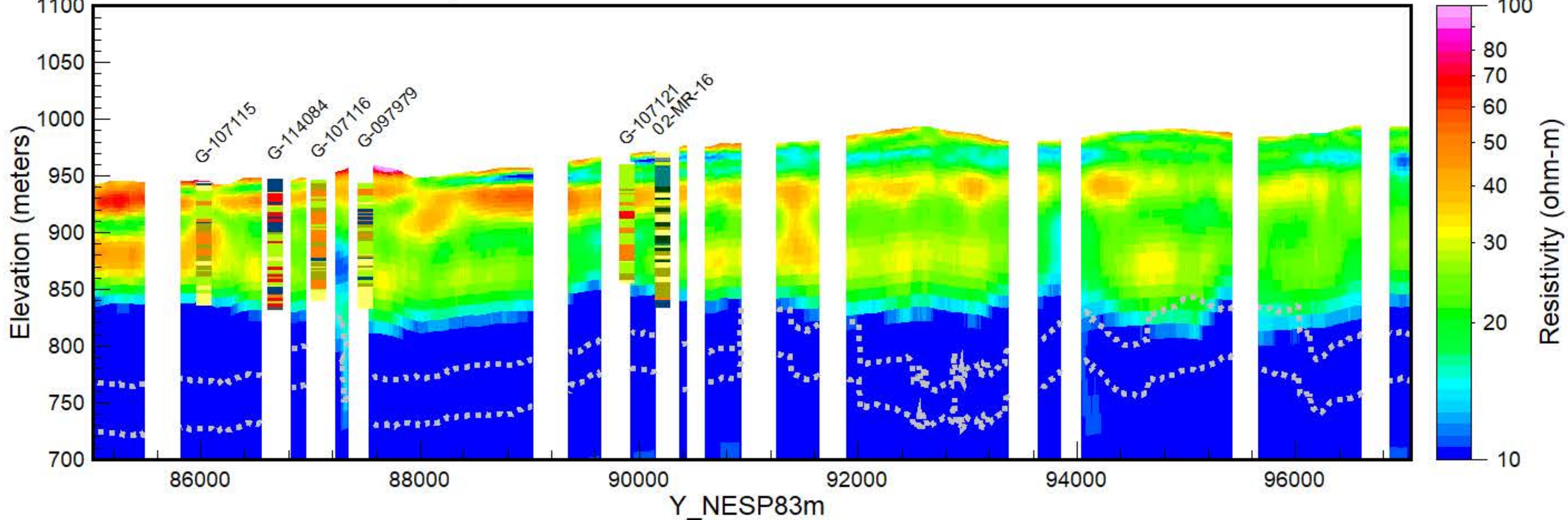
Flight Path Line L100702



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L100702



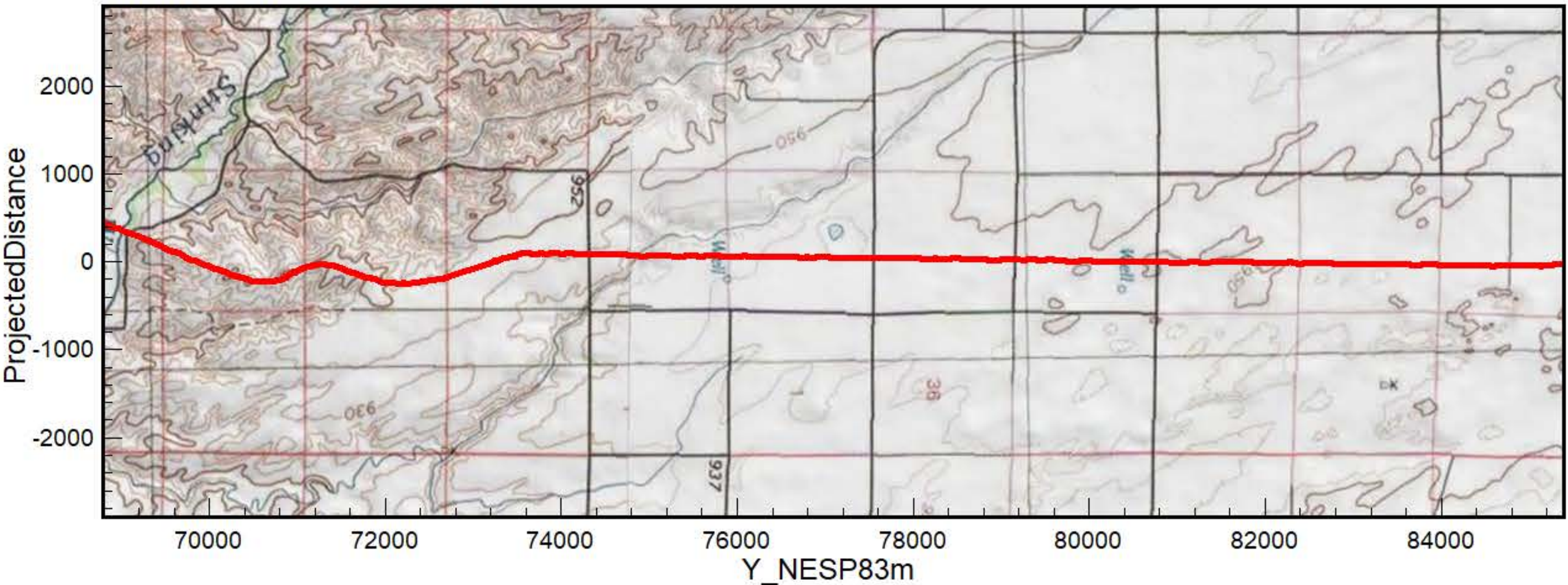
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Grave
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

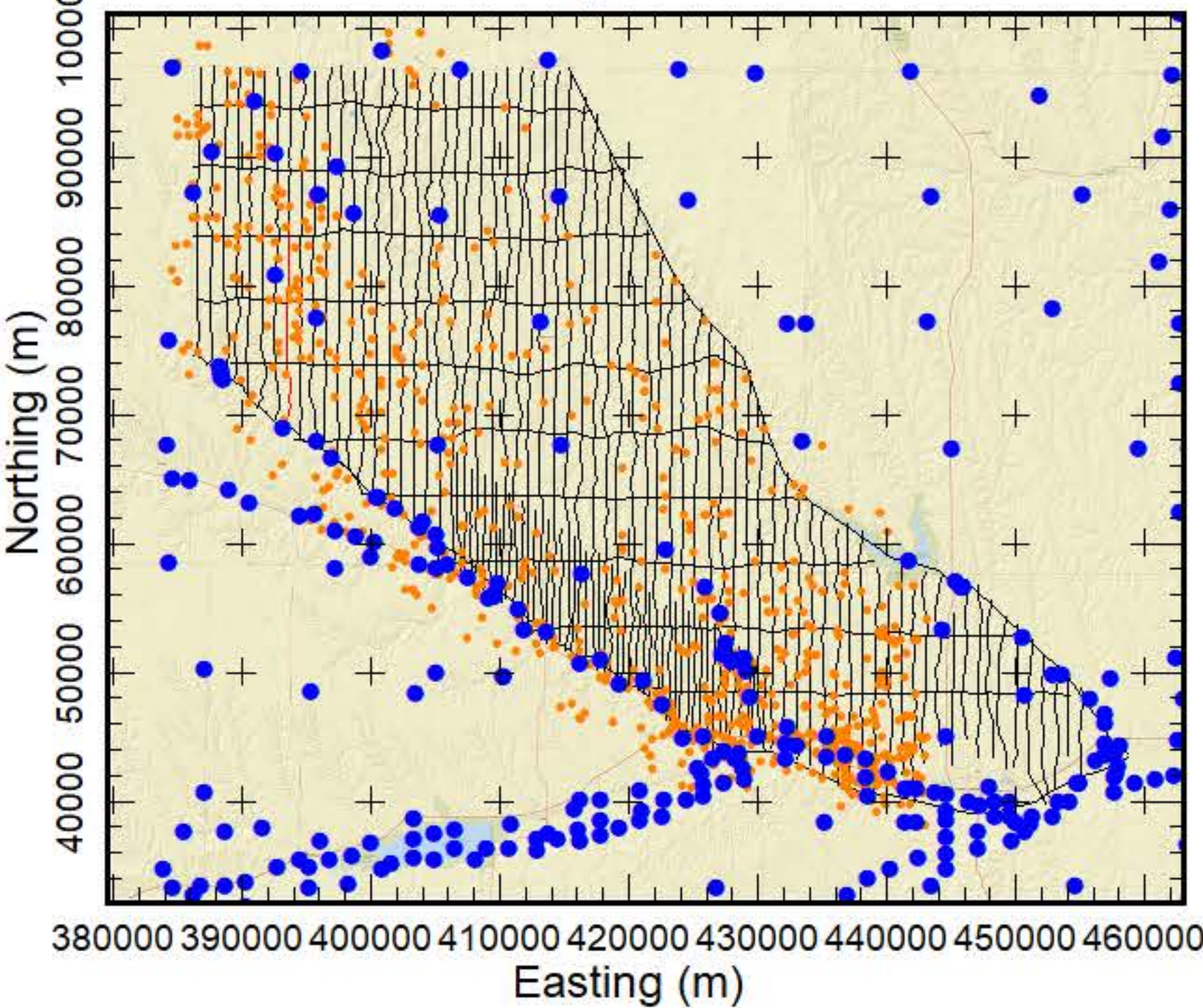




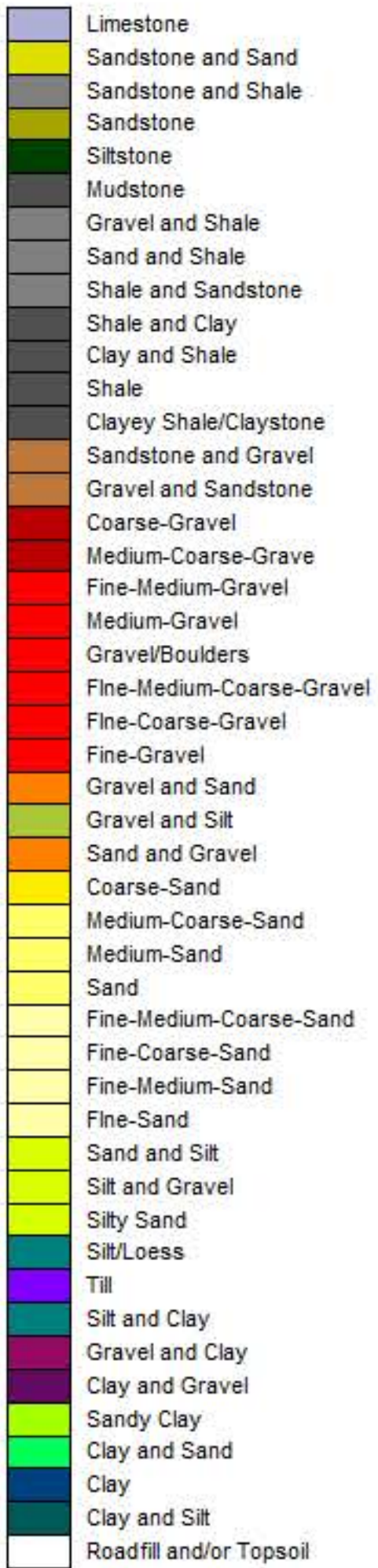
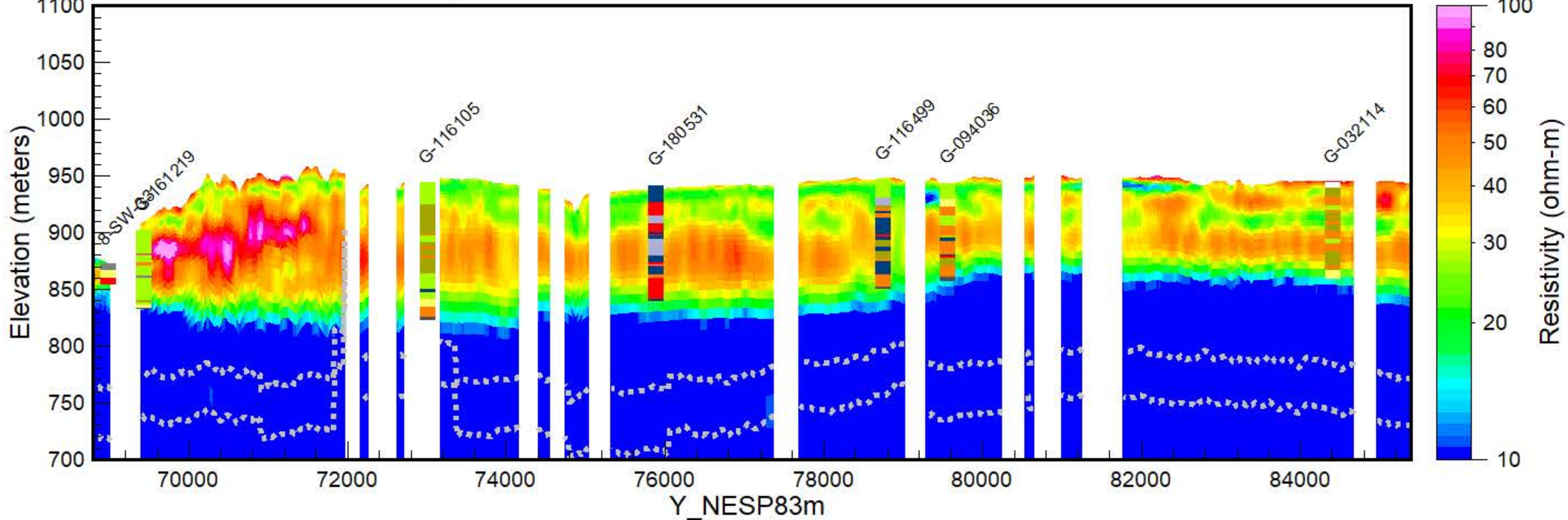
Flight Path Line L100801



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L100801

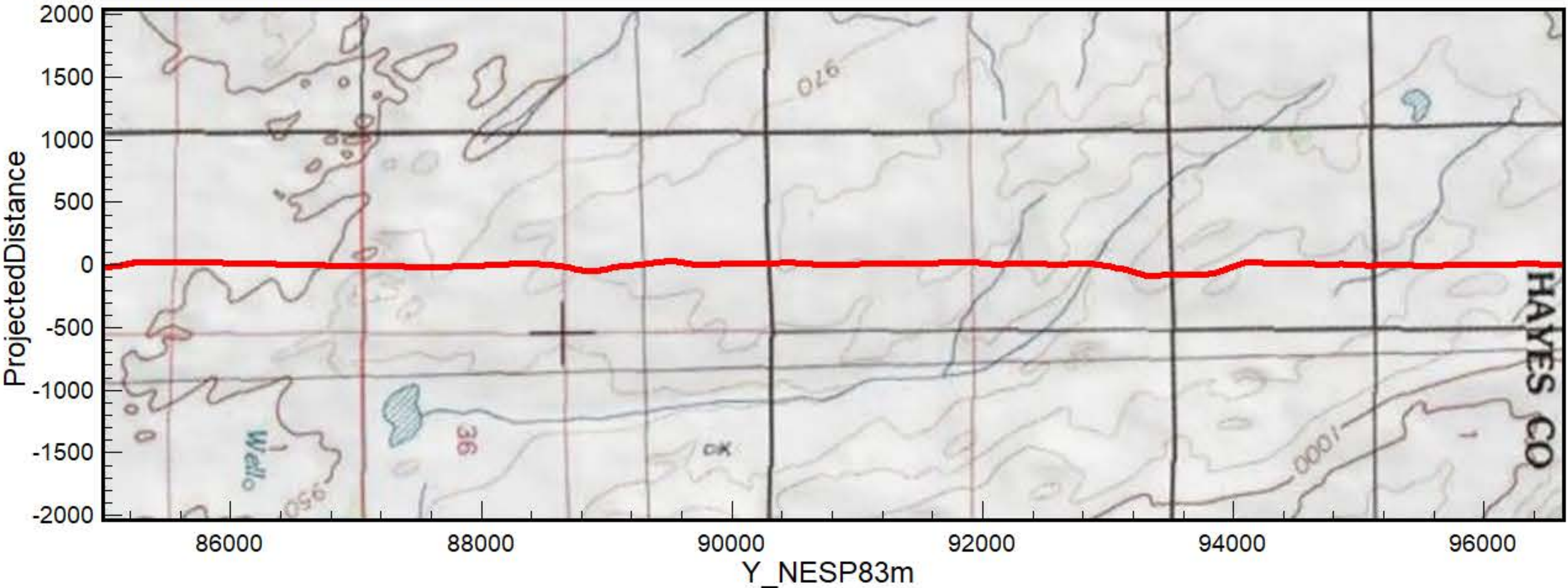


Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

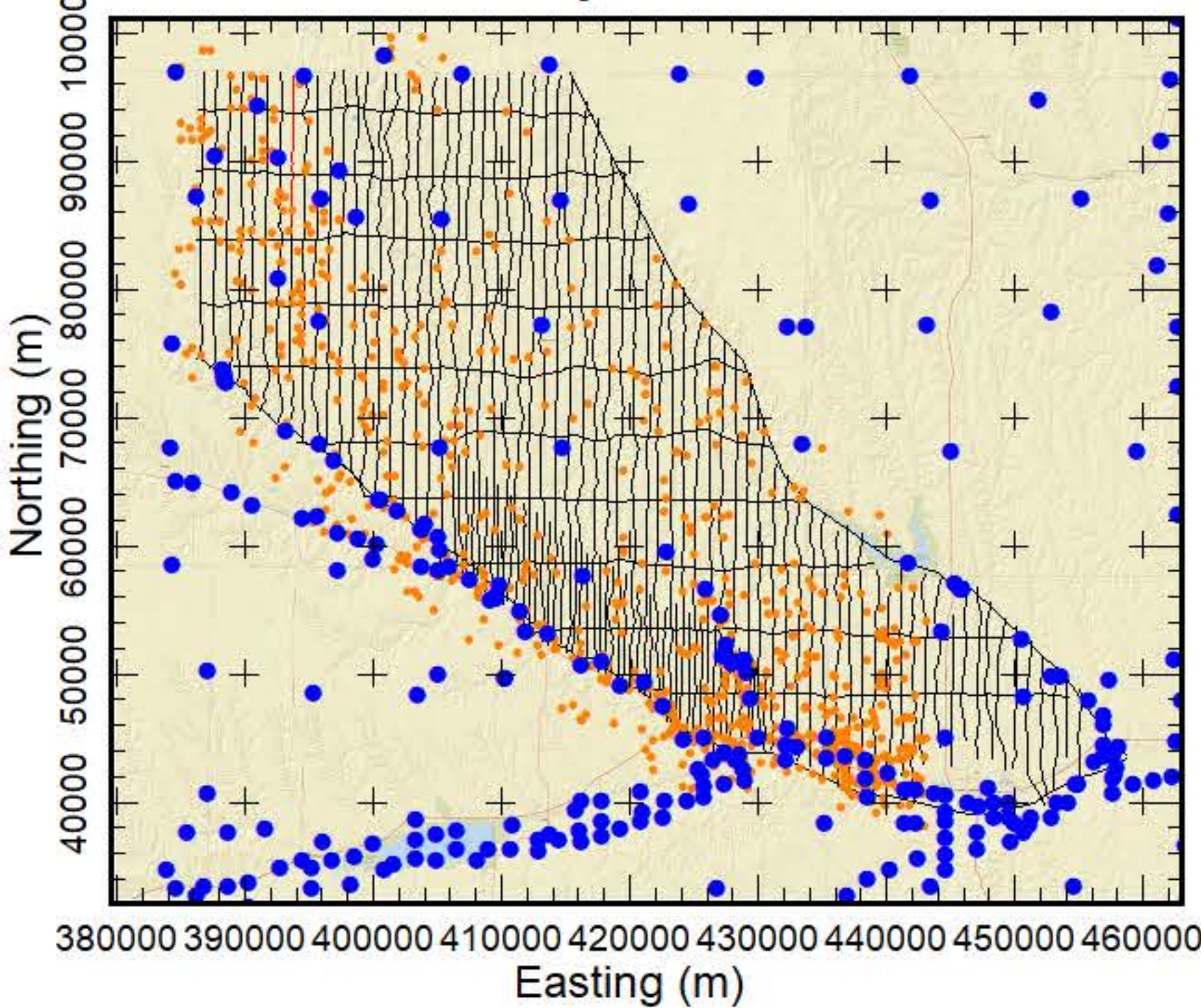




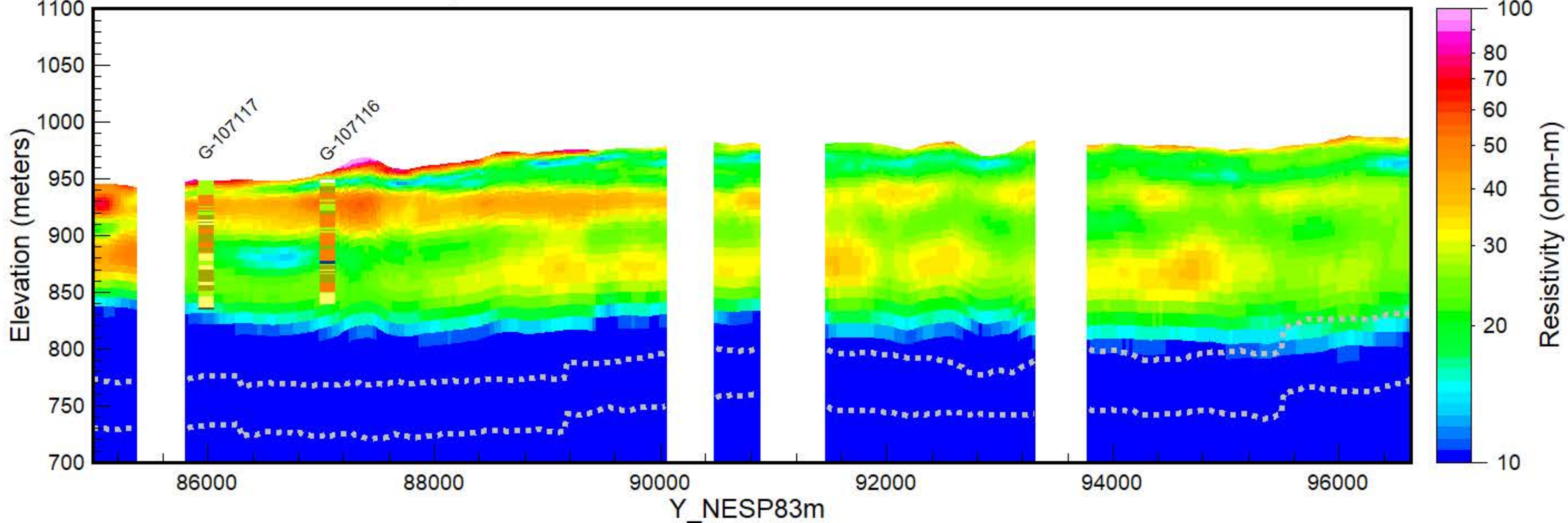
Flight Path Line L100802



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L100802



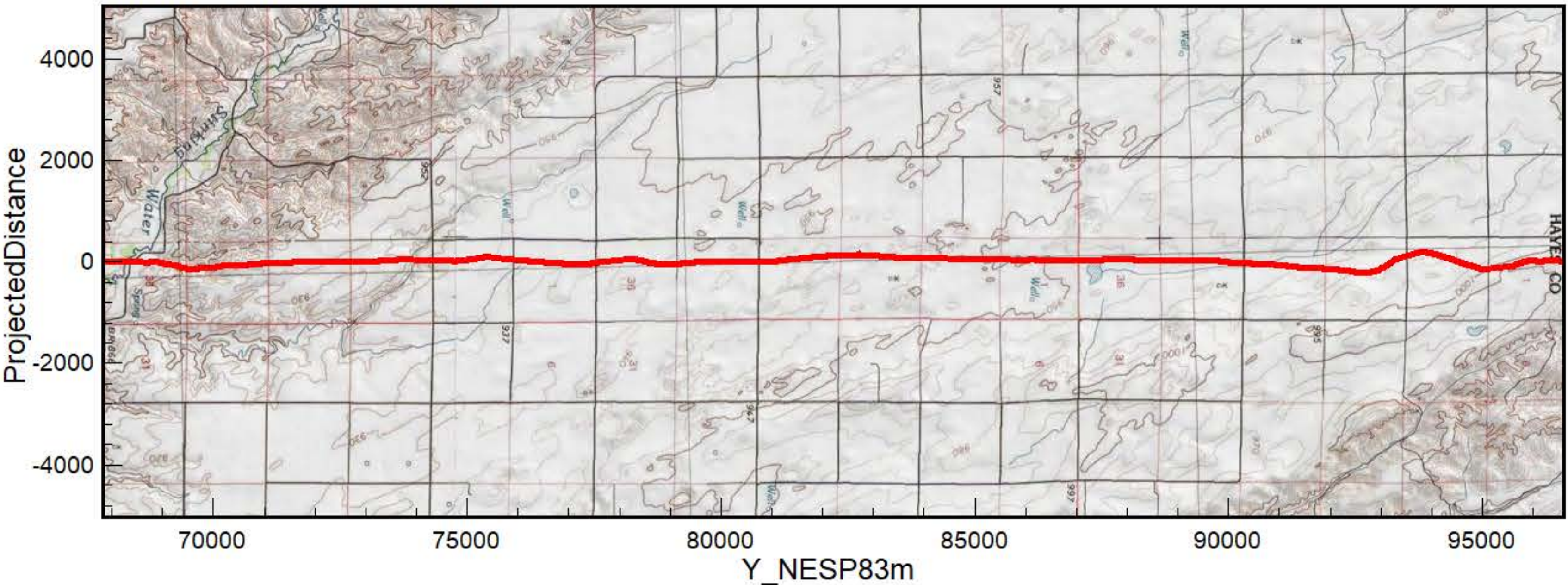
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

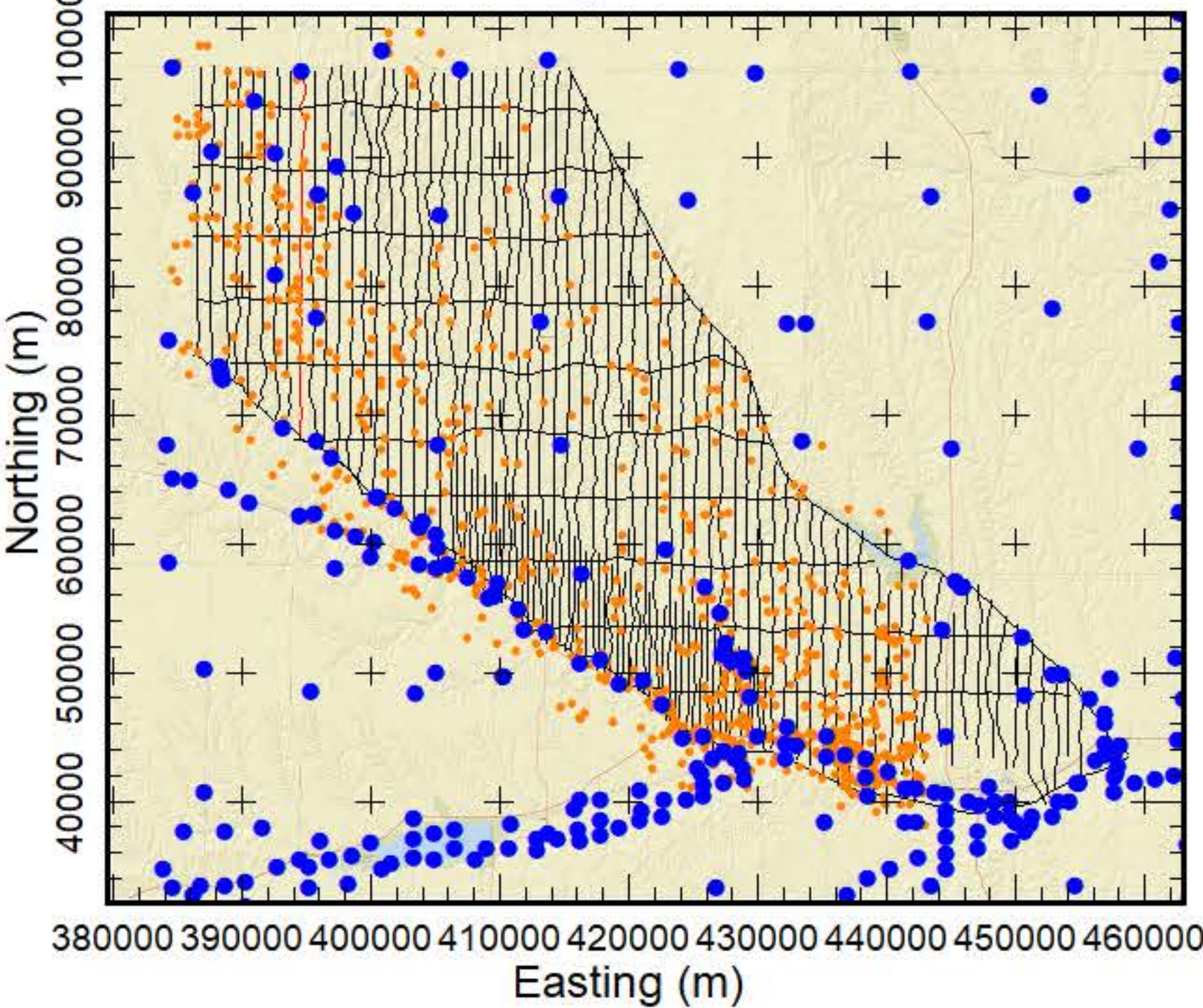




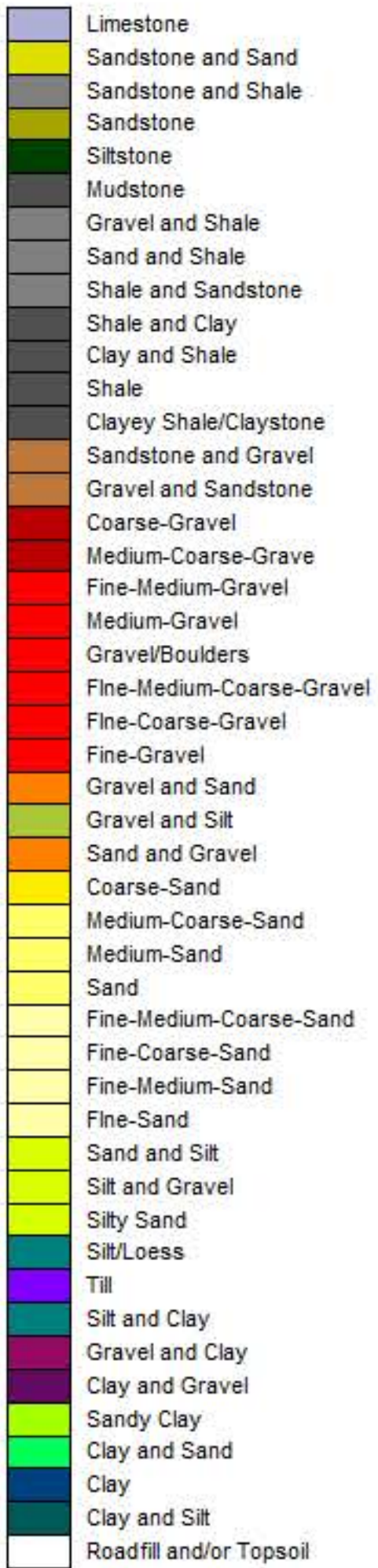
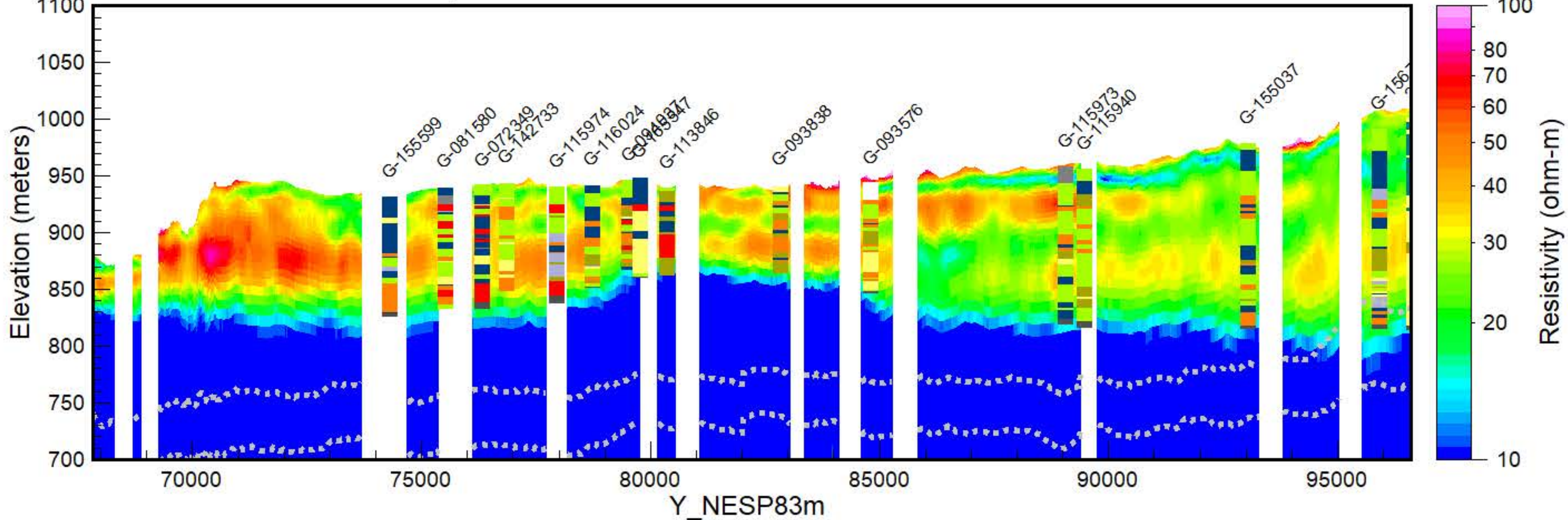
Flight Path Line L100901



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L100901

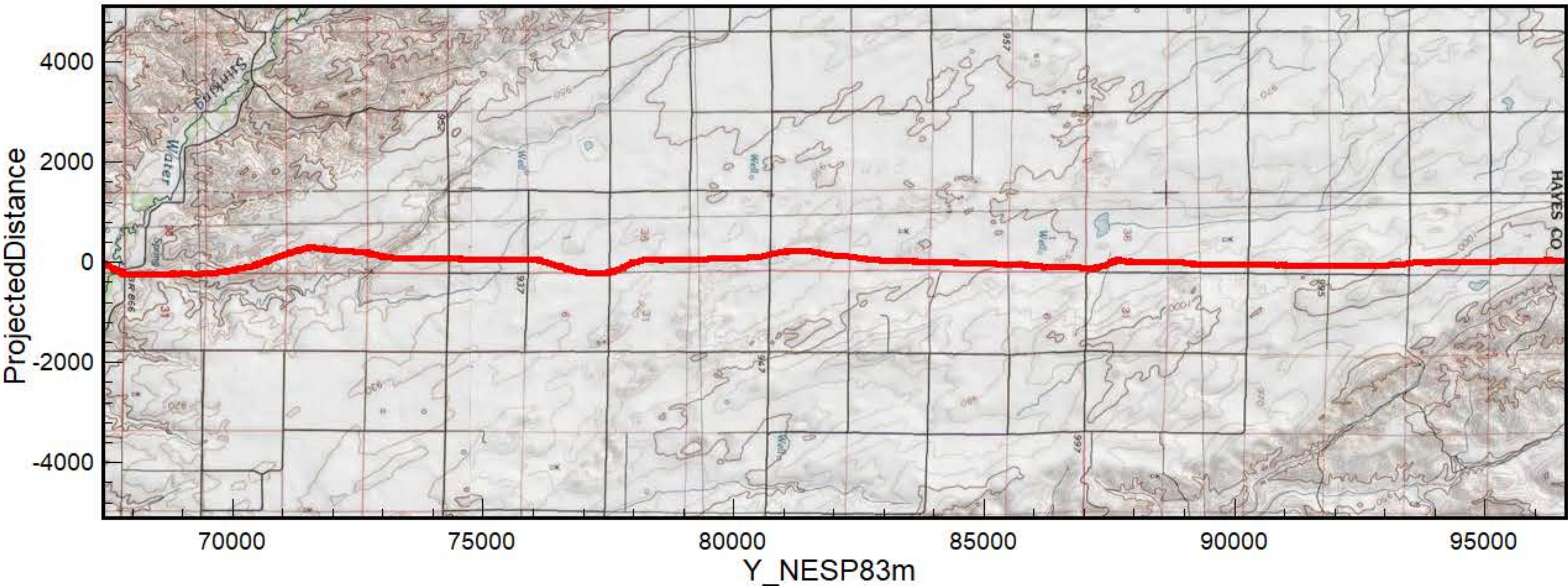


Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

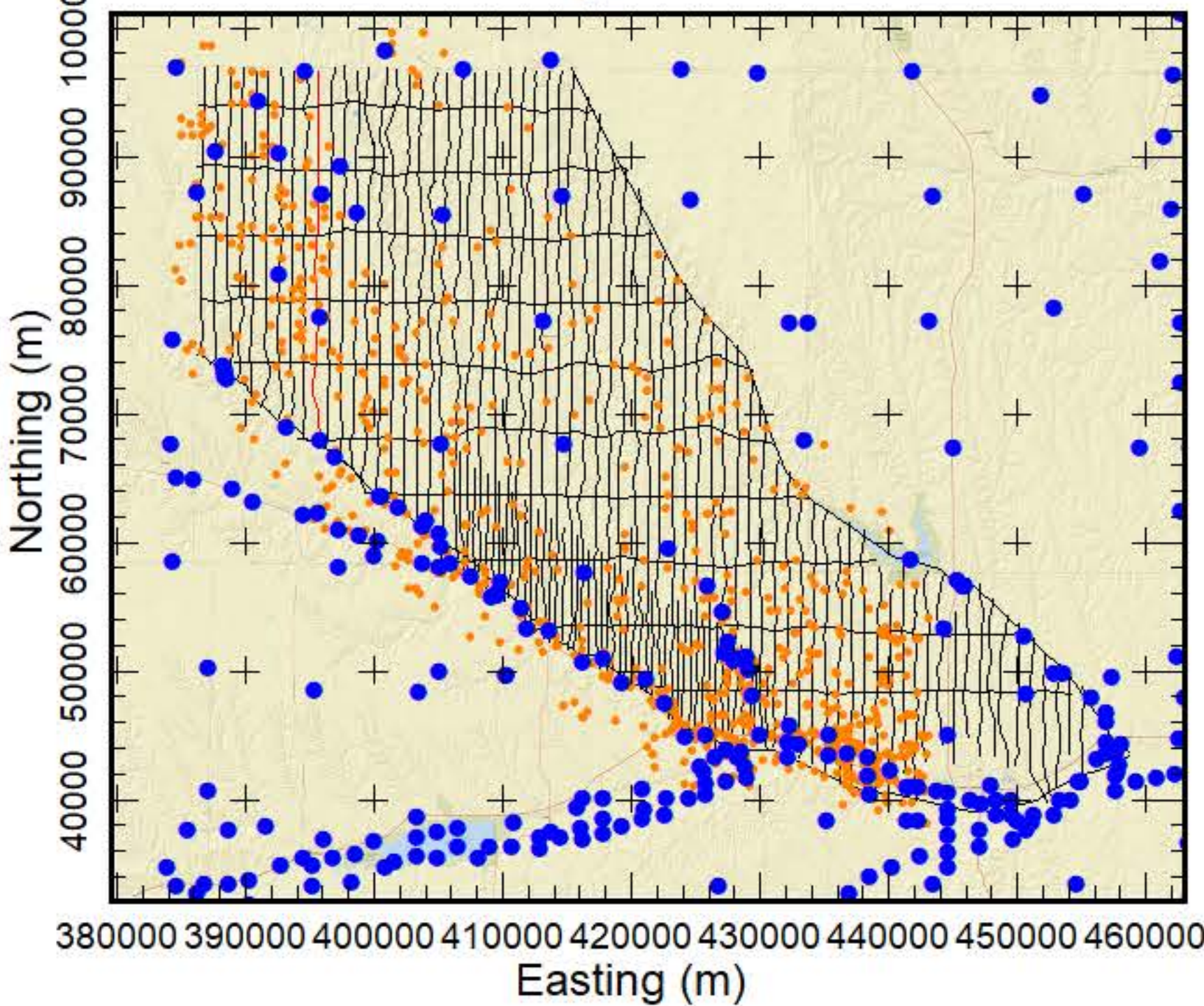




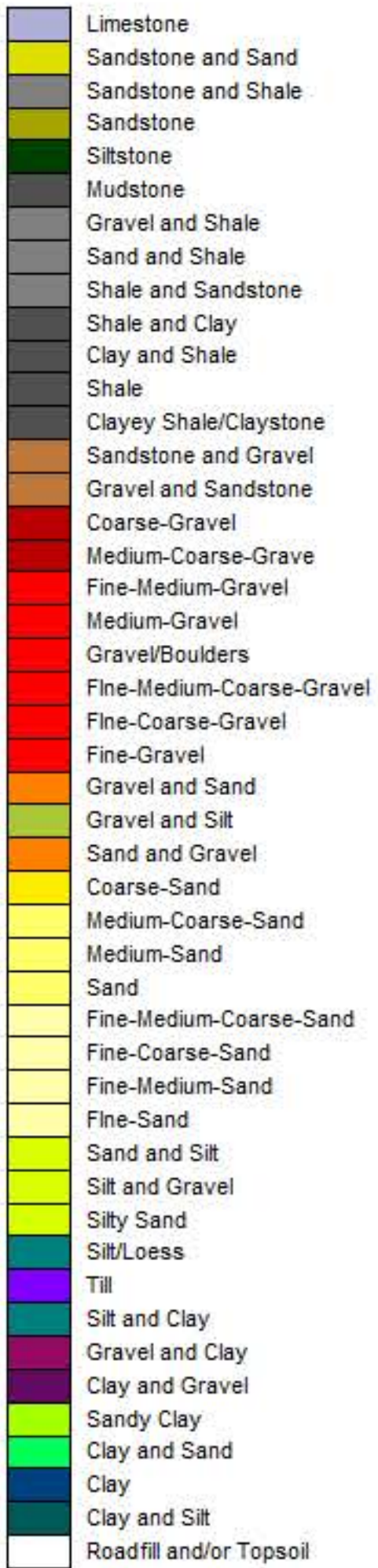
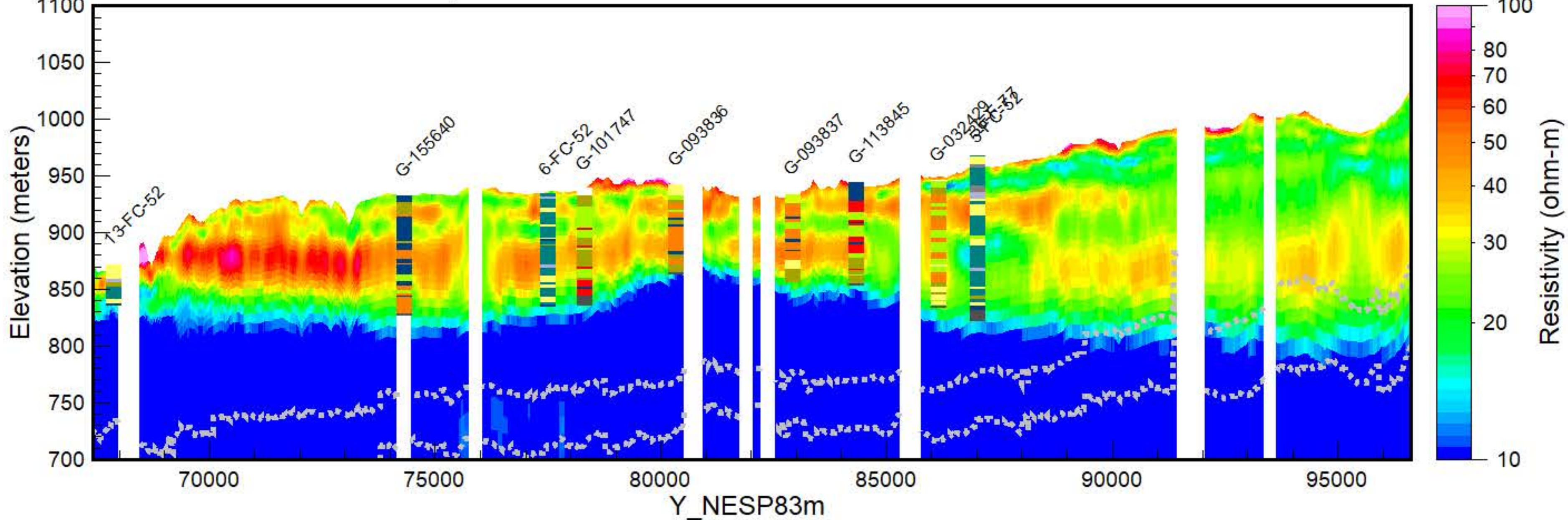
Flight Path Line L101001



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L101001

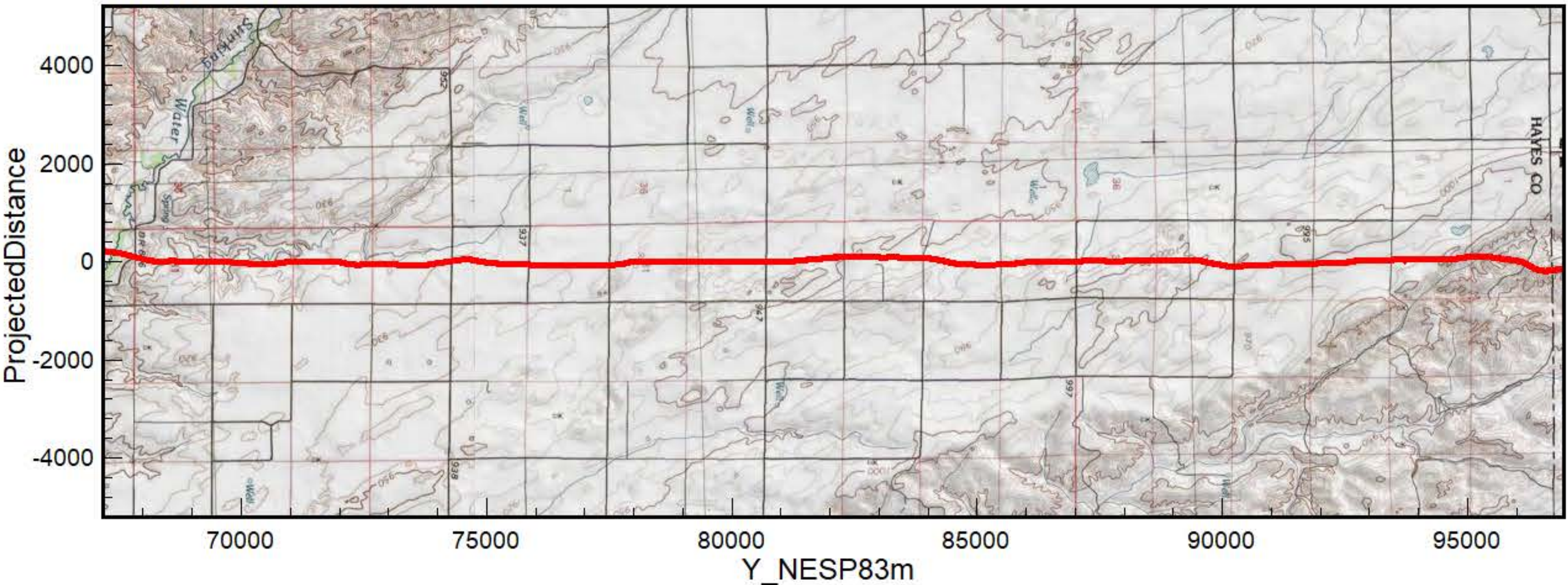


Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

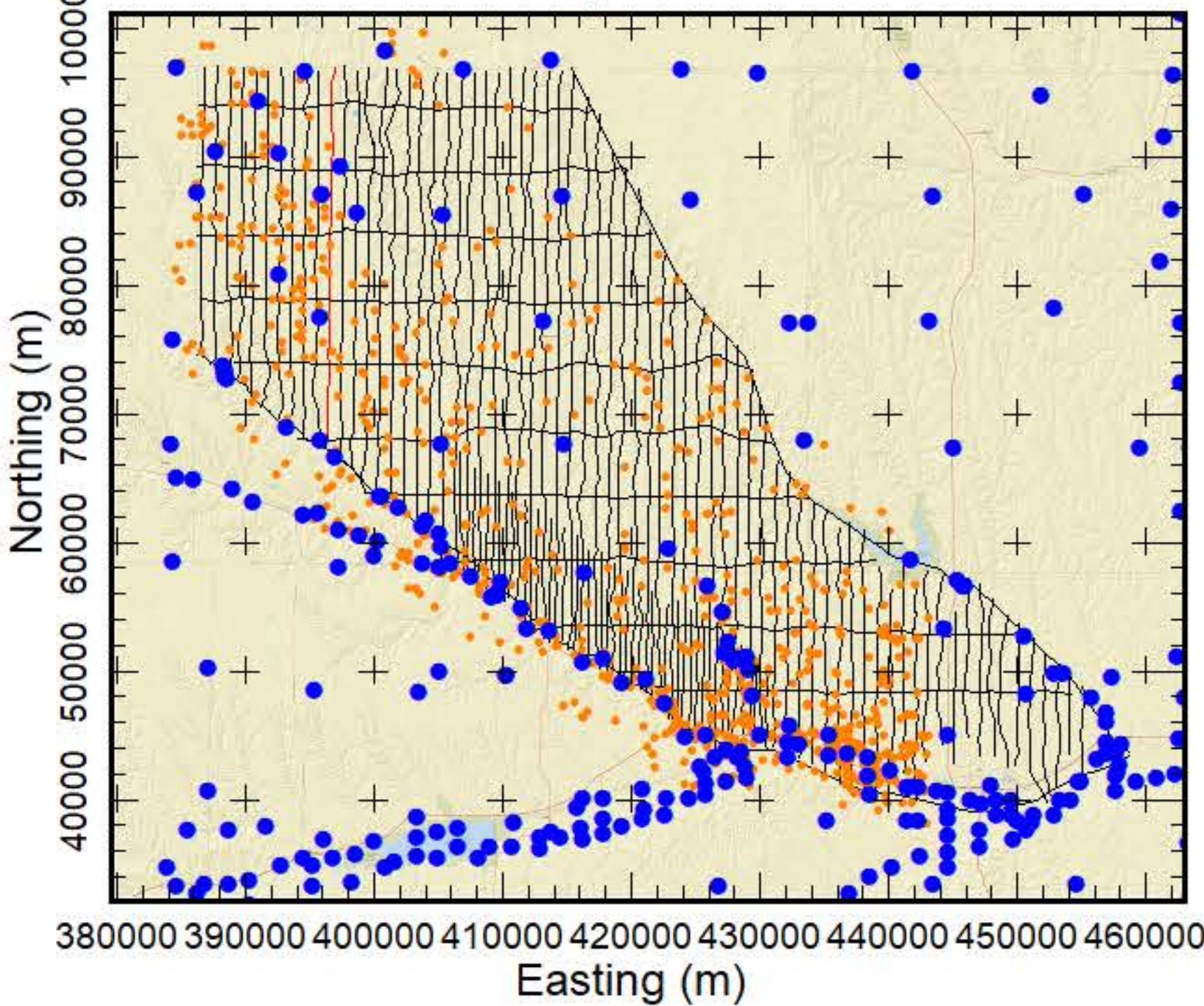




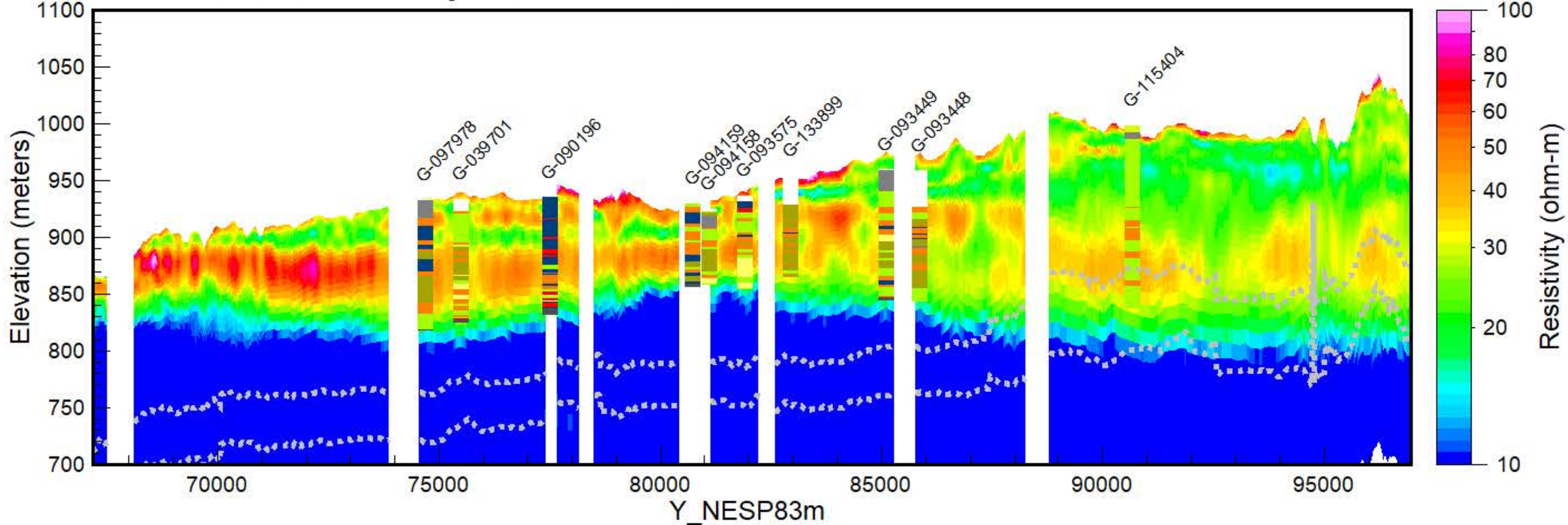
Flight Path Line L101101



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L101101



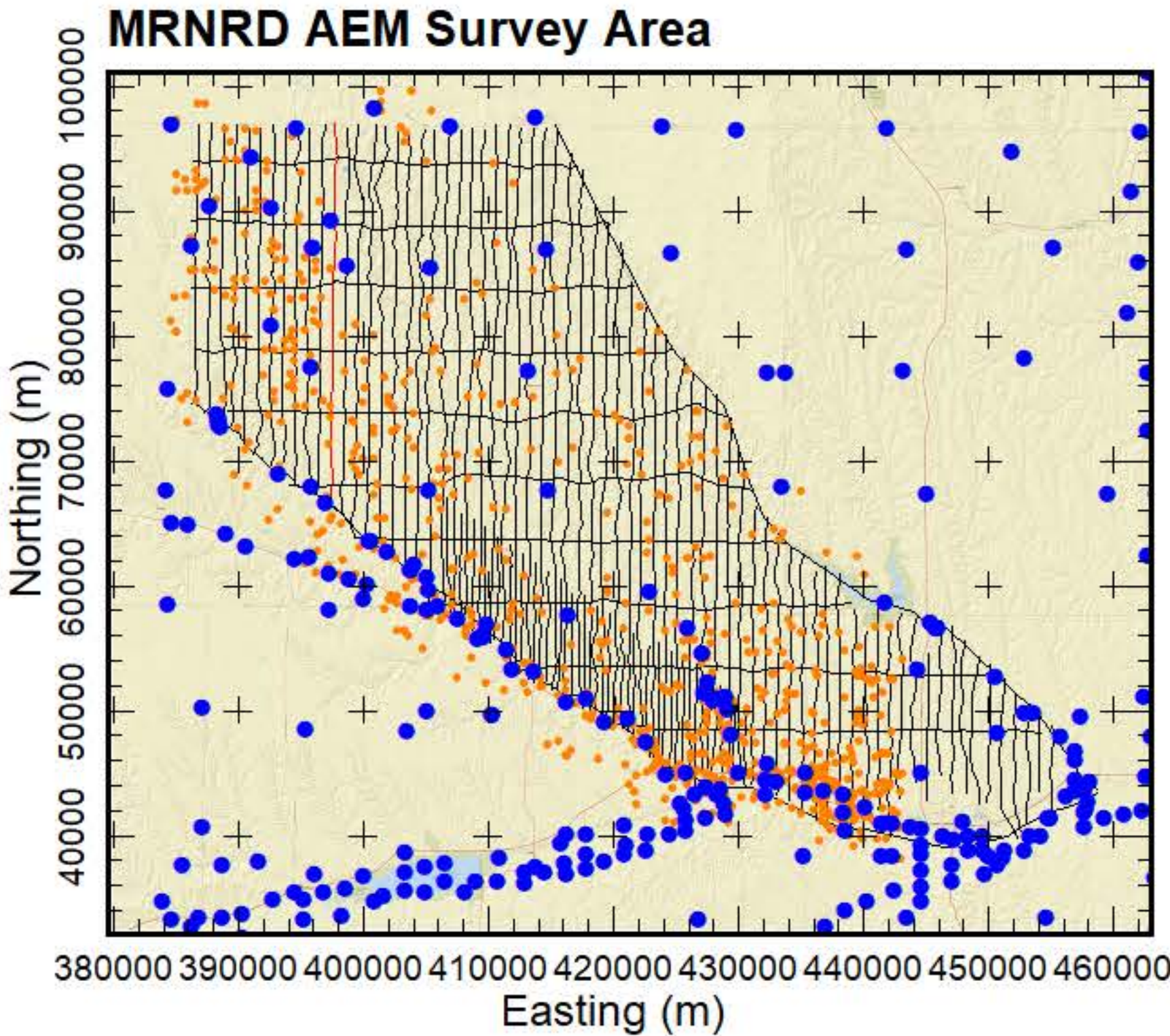
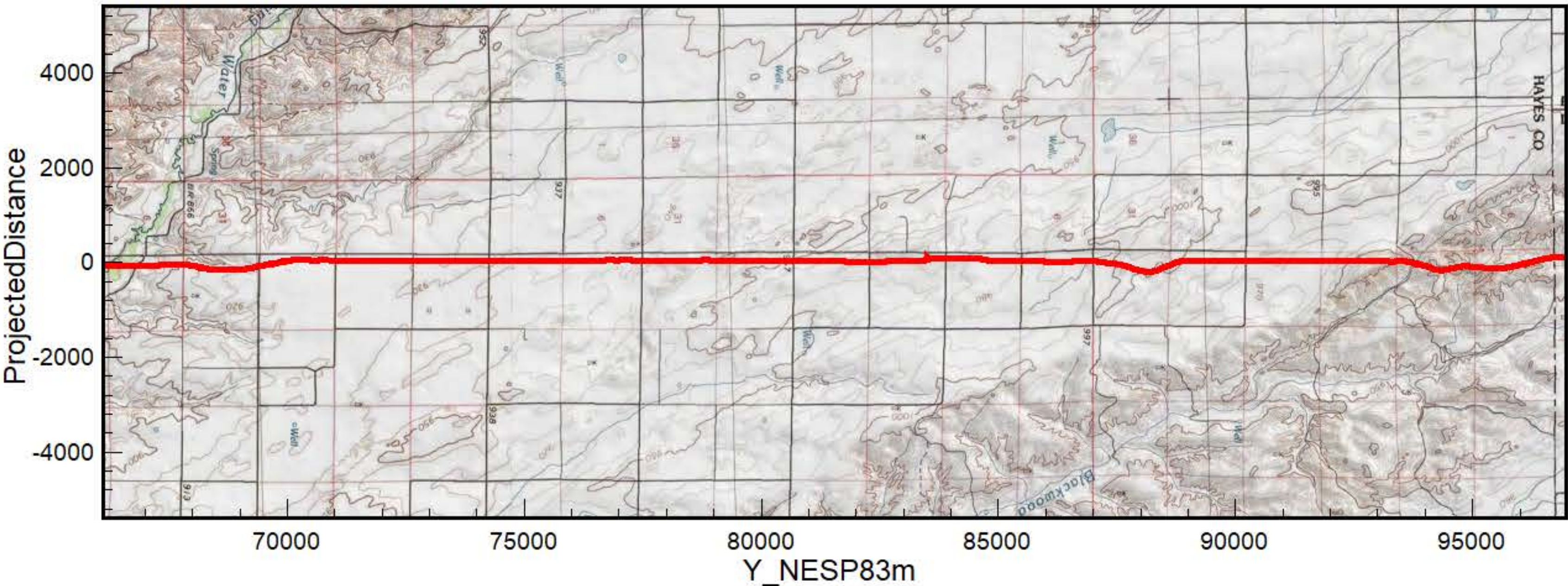
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

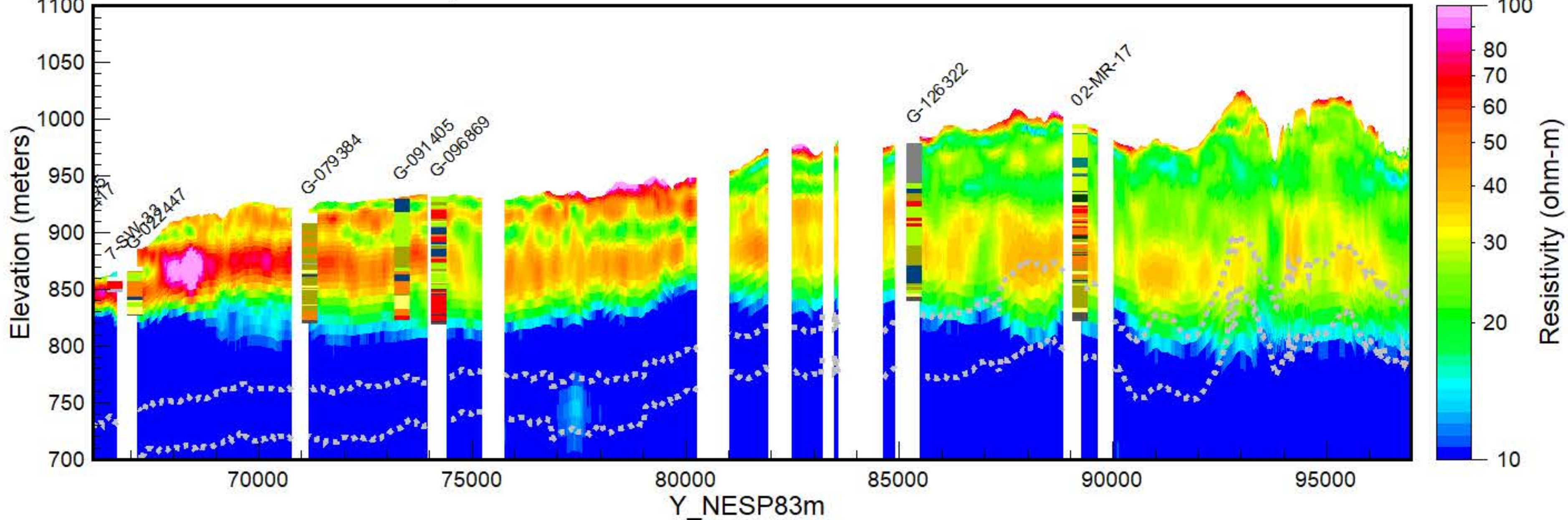




Flight Path Line L101201



AEM Inversion Resistivity Line L101201



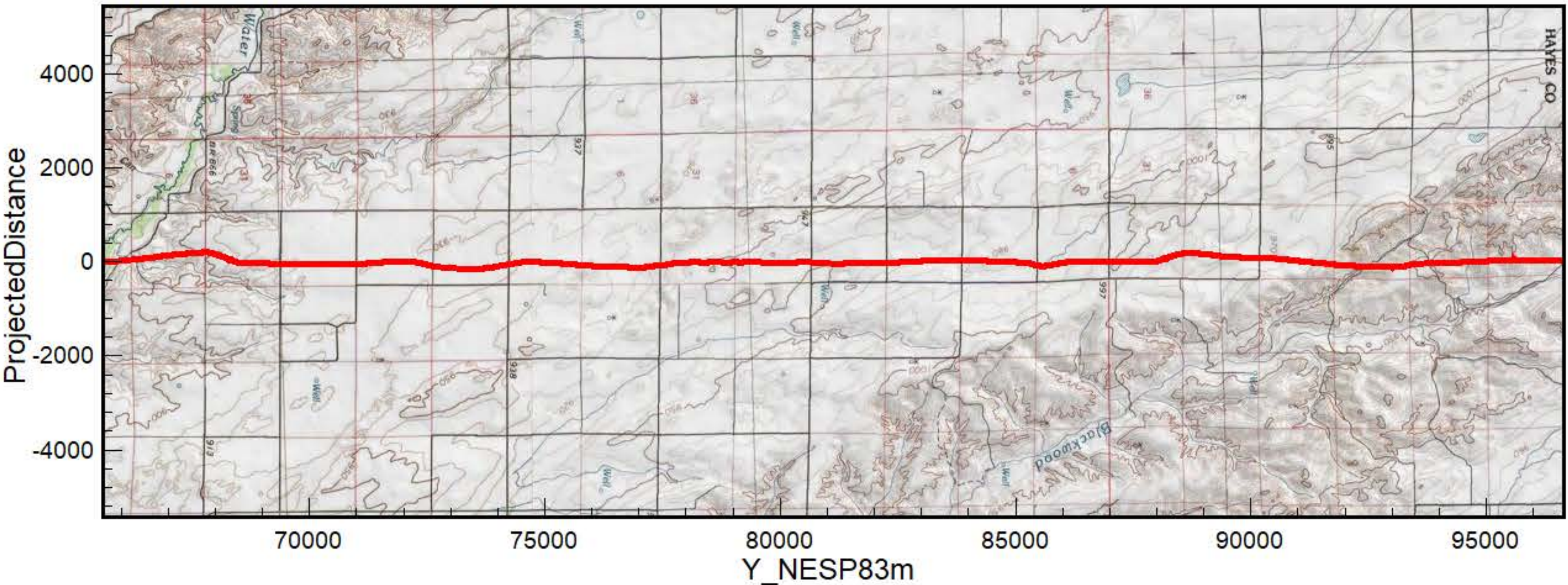
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Grave
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

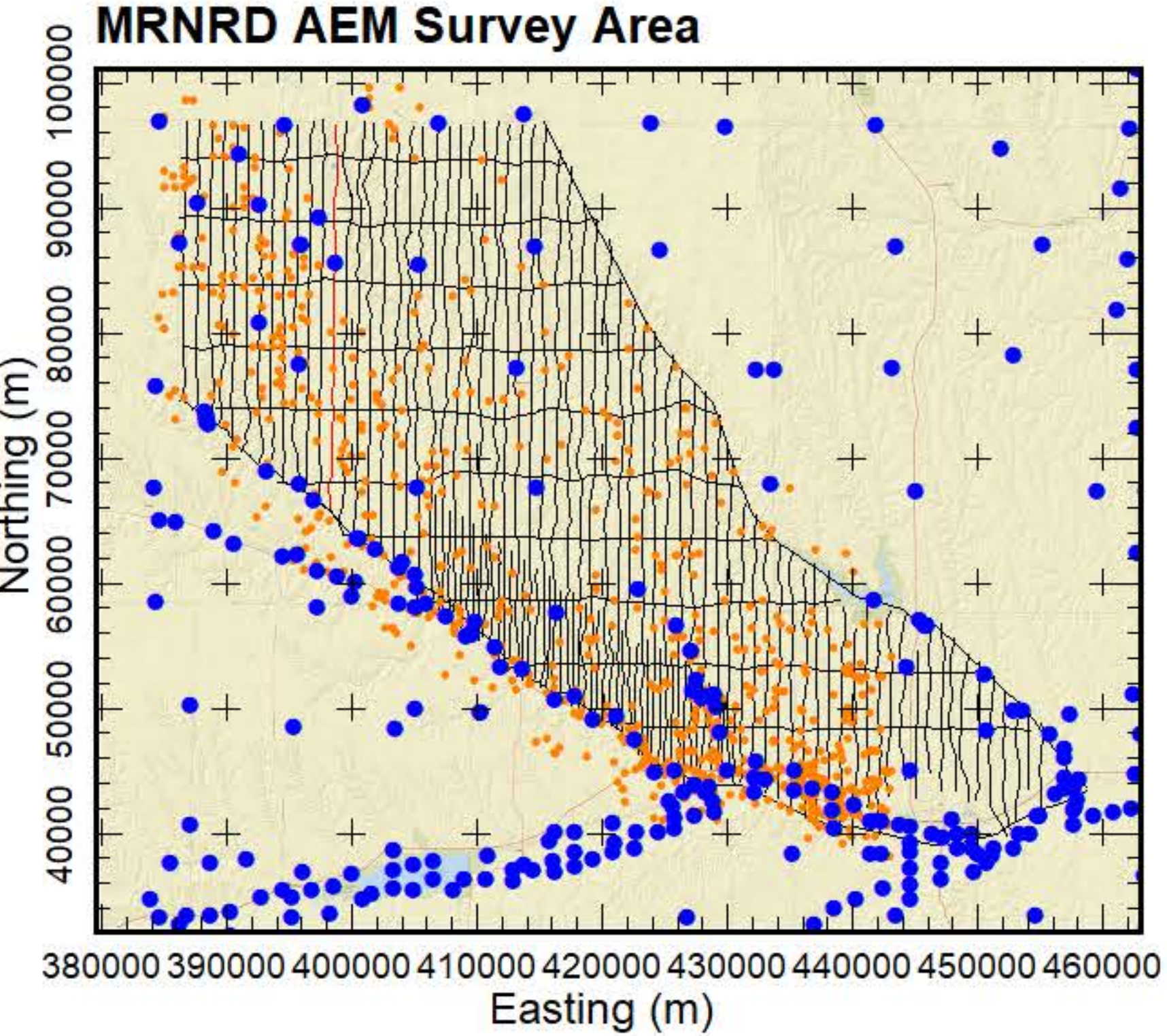
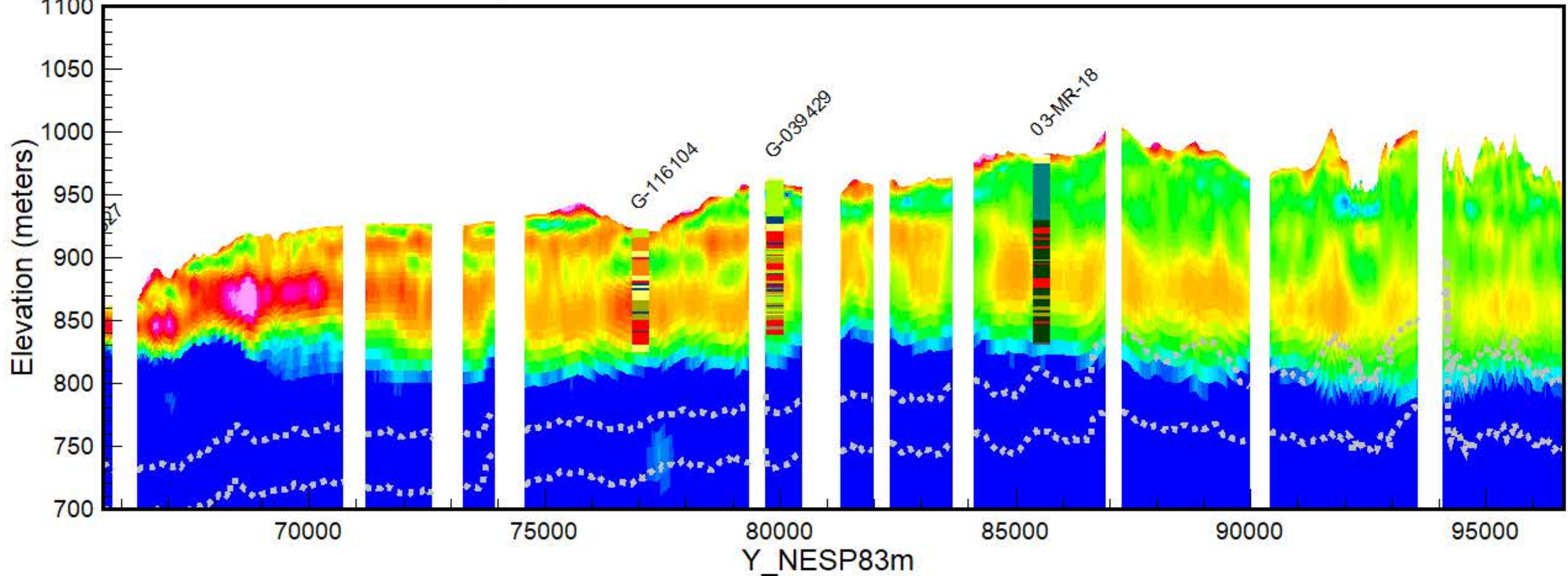




Flight Path Line L101301



AEM Inversion Resistivity Line L101301



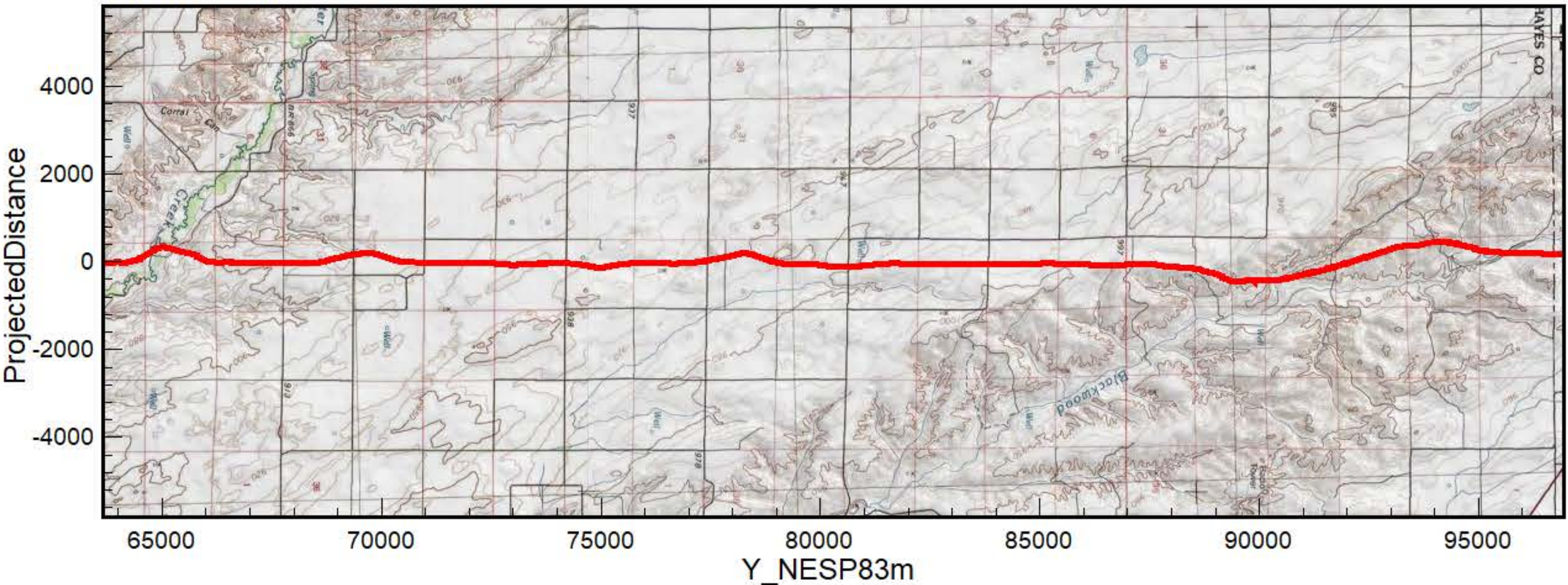
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Grave
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

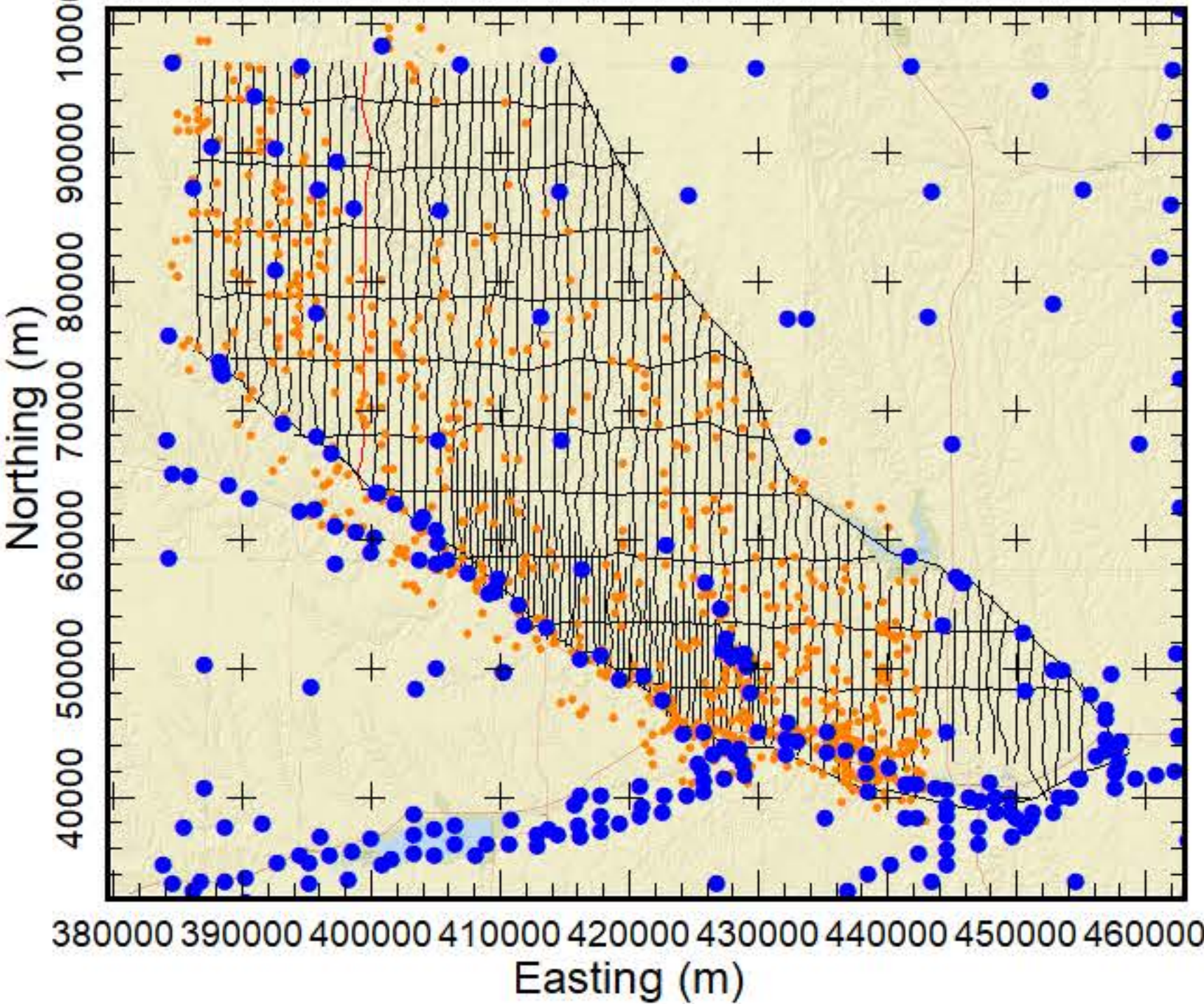




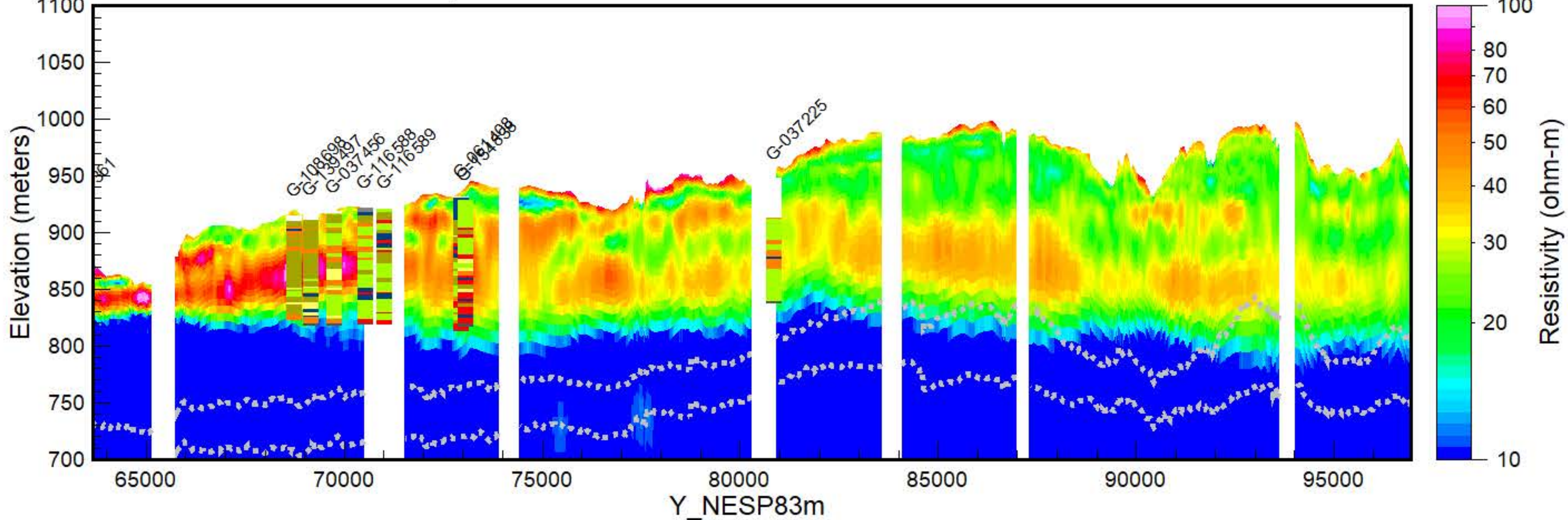
Flight Path Line L101401



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L101401



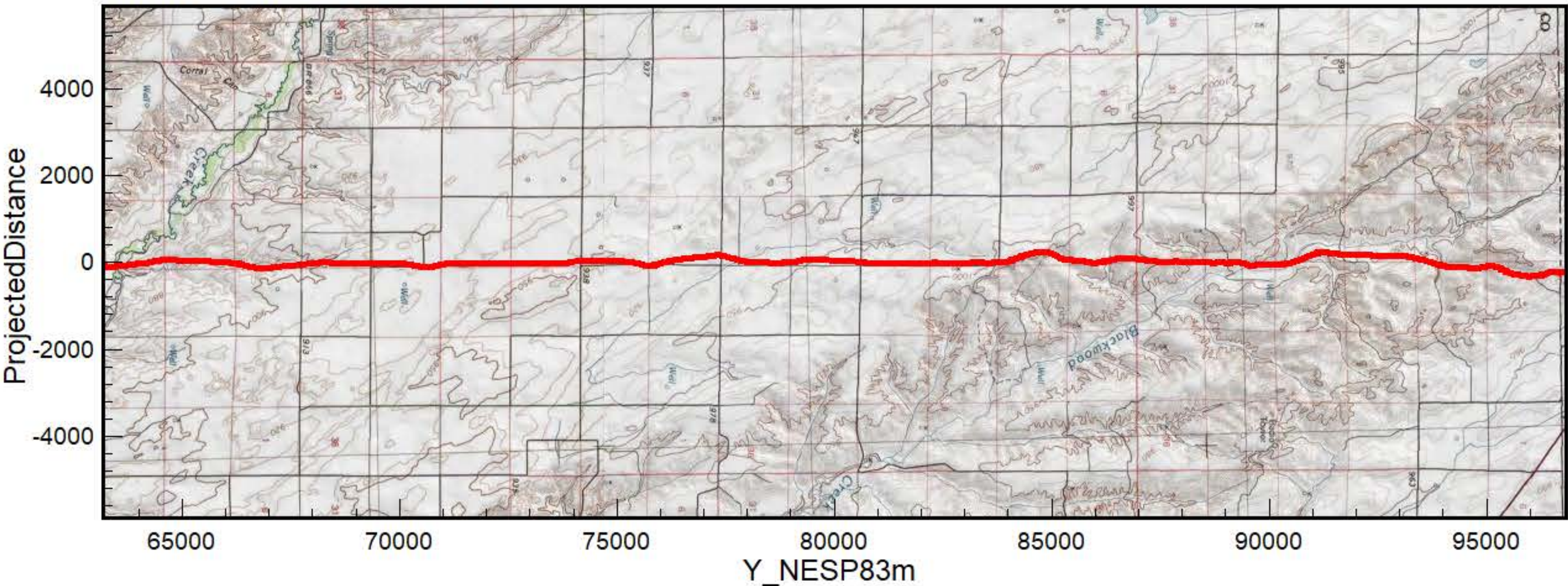
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

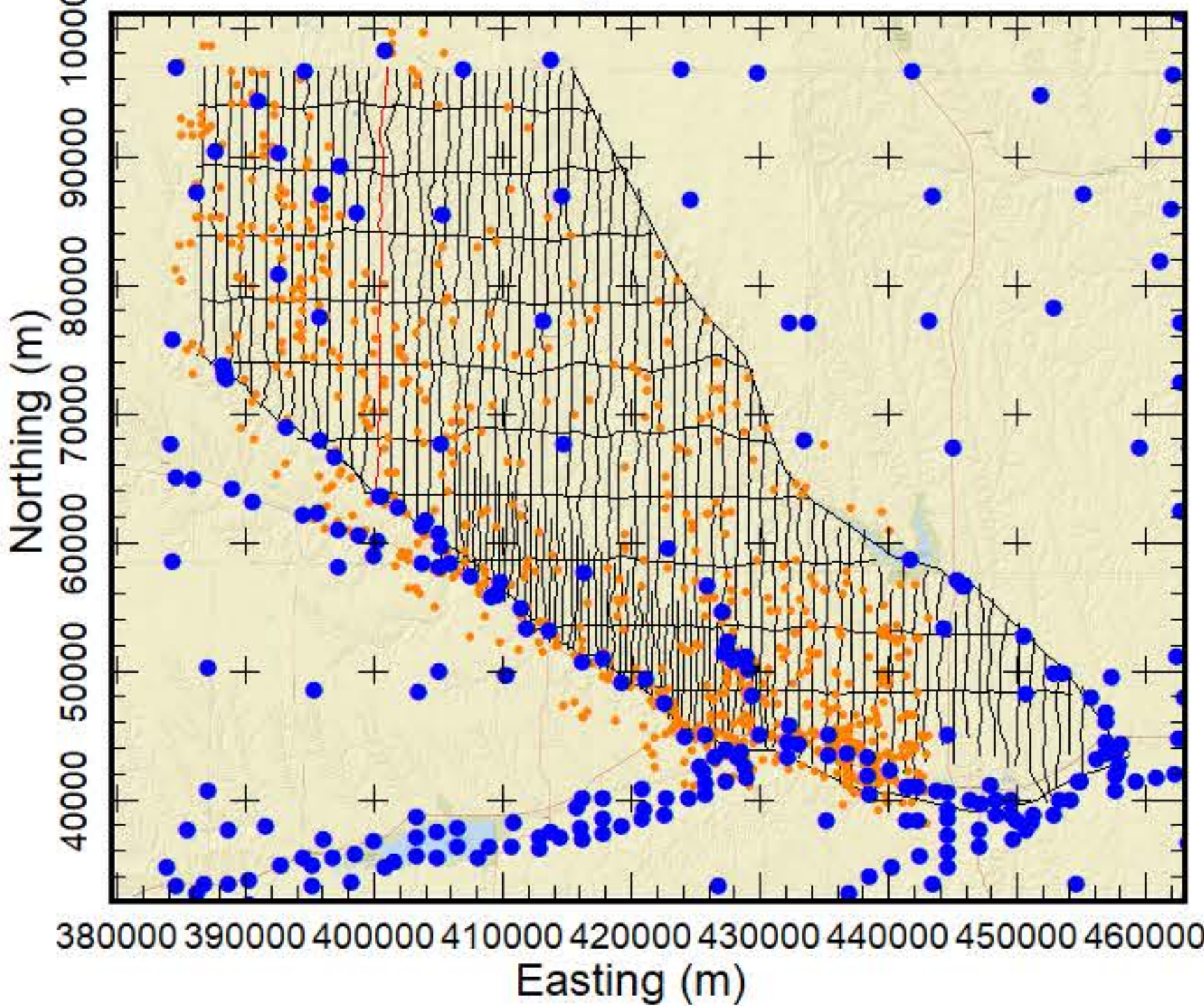




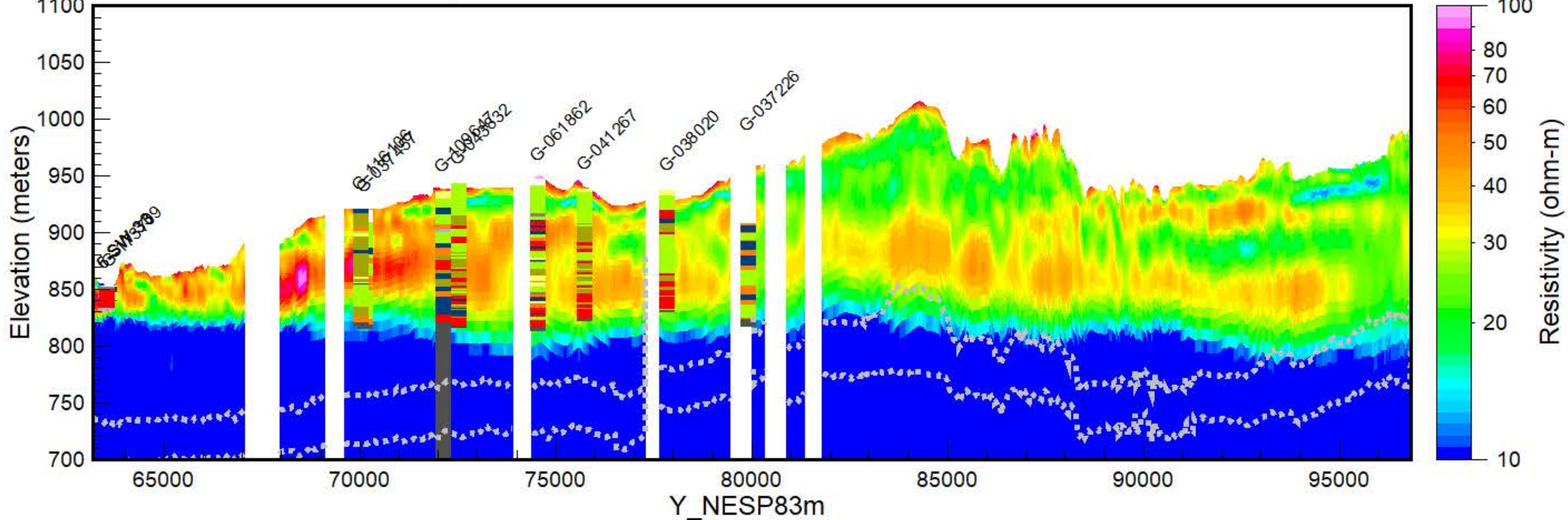
Flight Path Line L101501



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L101501



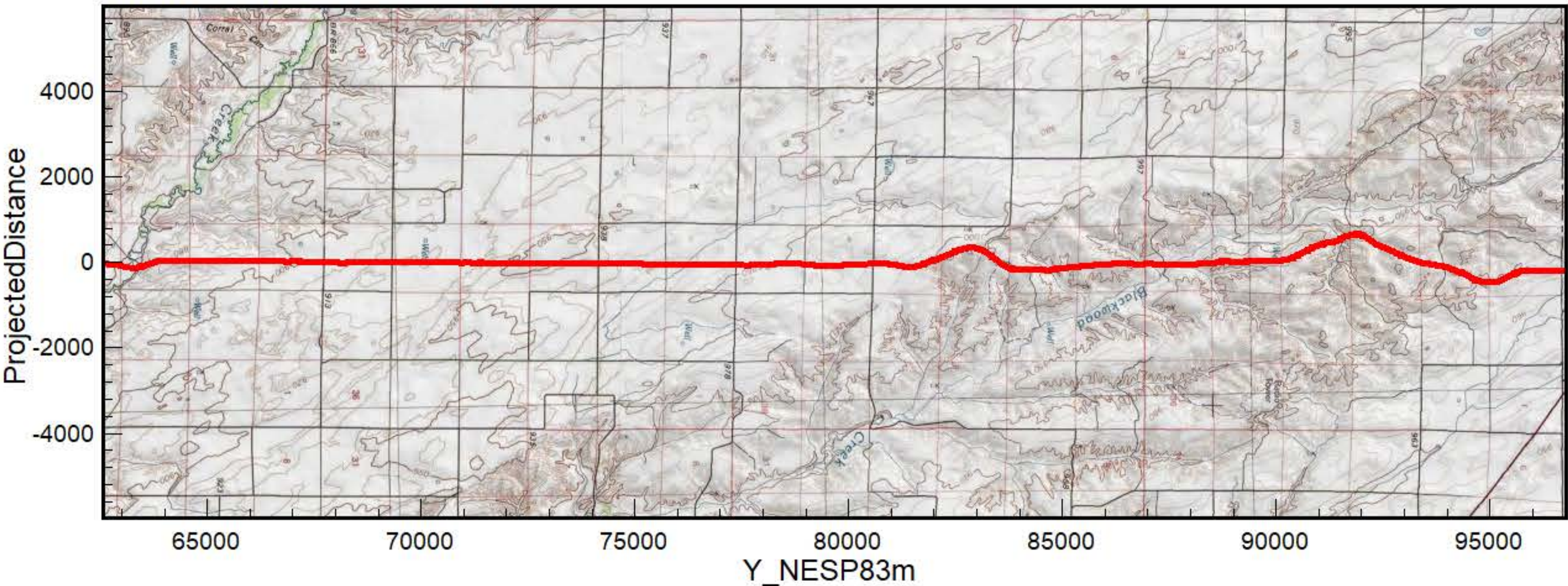
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

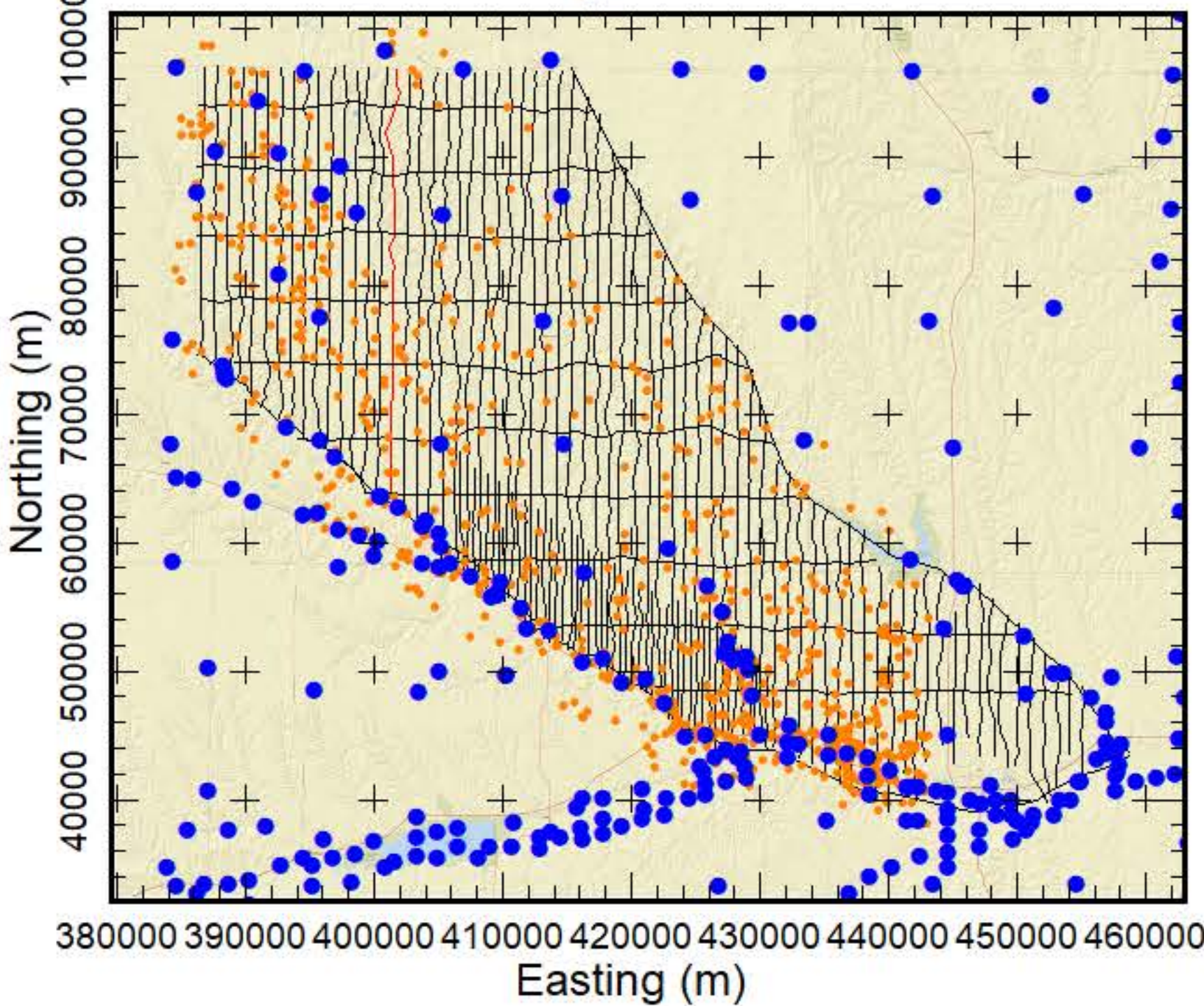




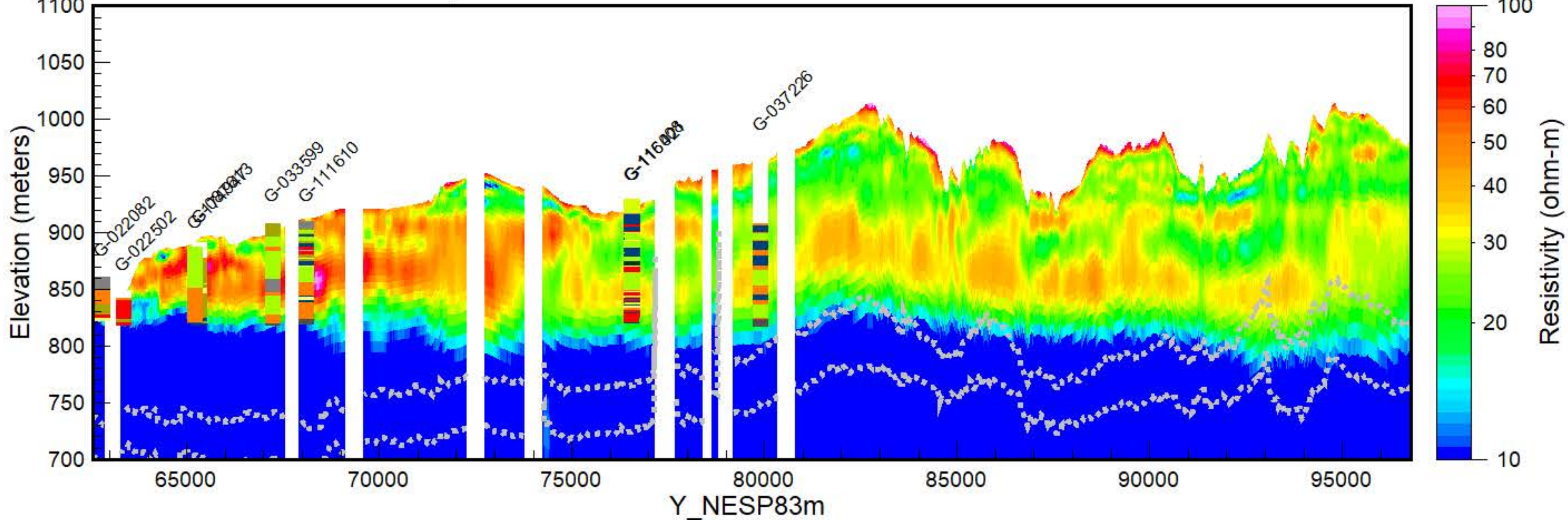
Flight Path Line L101601



MRNRD AEM Survey Area



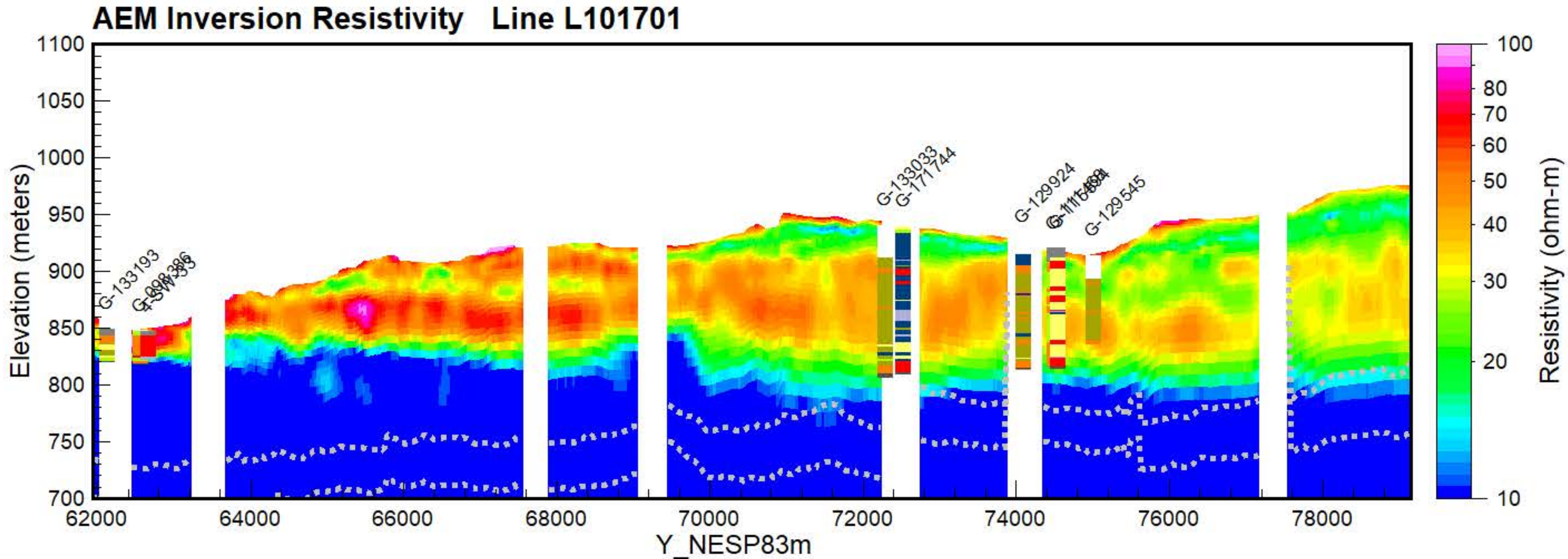
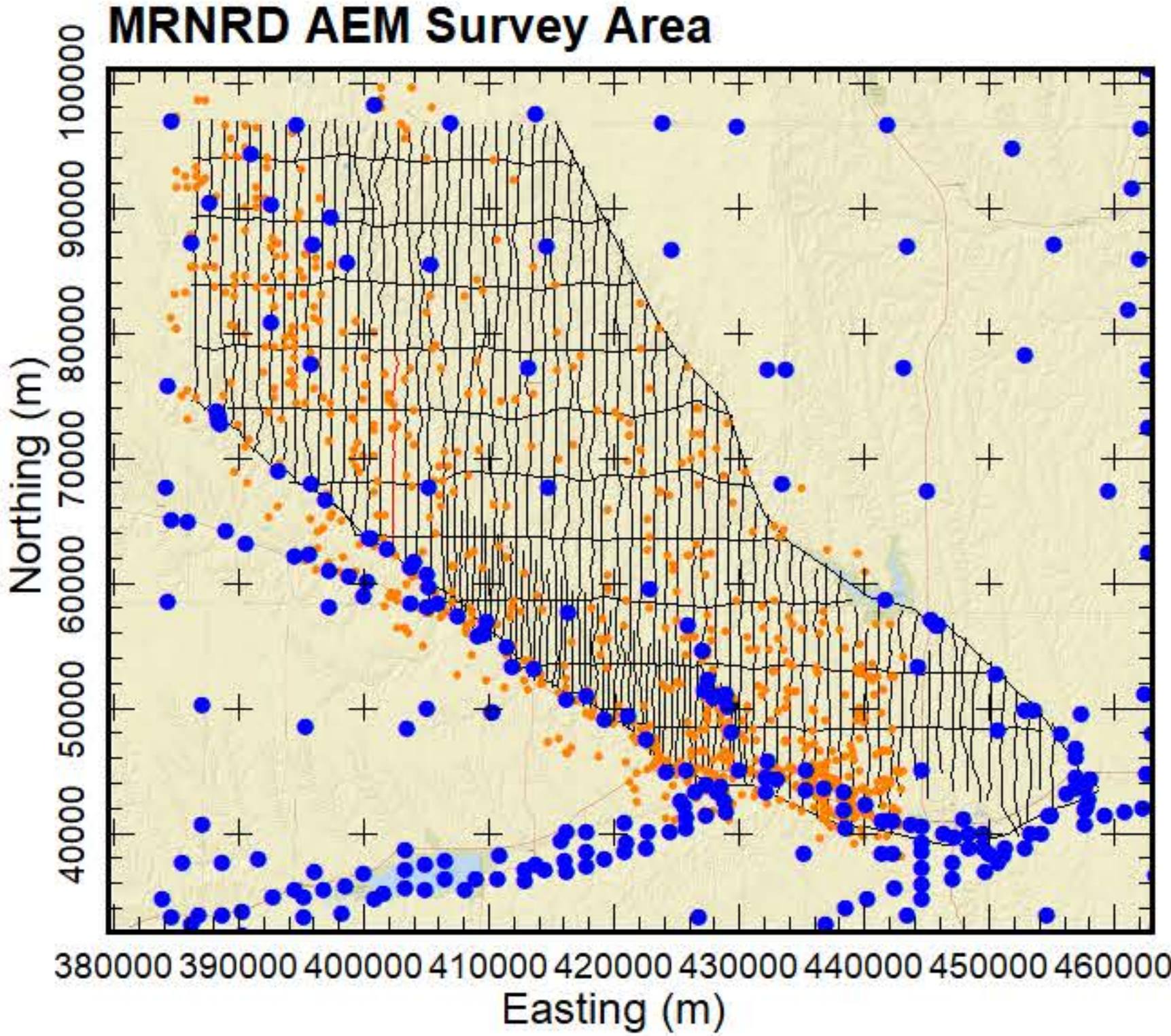
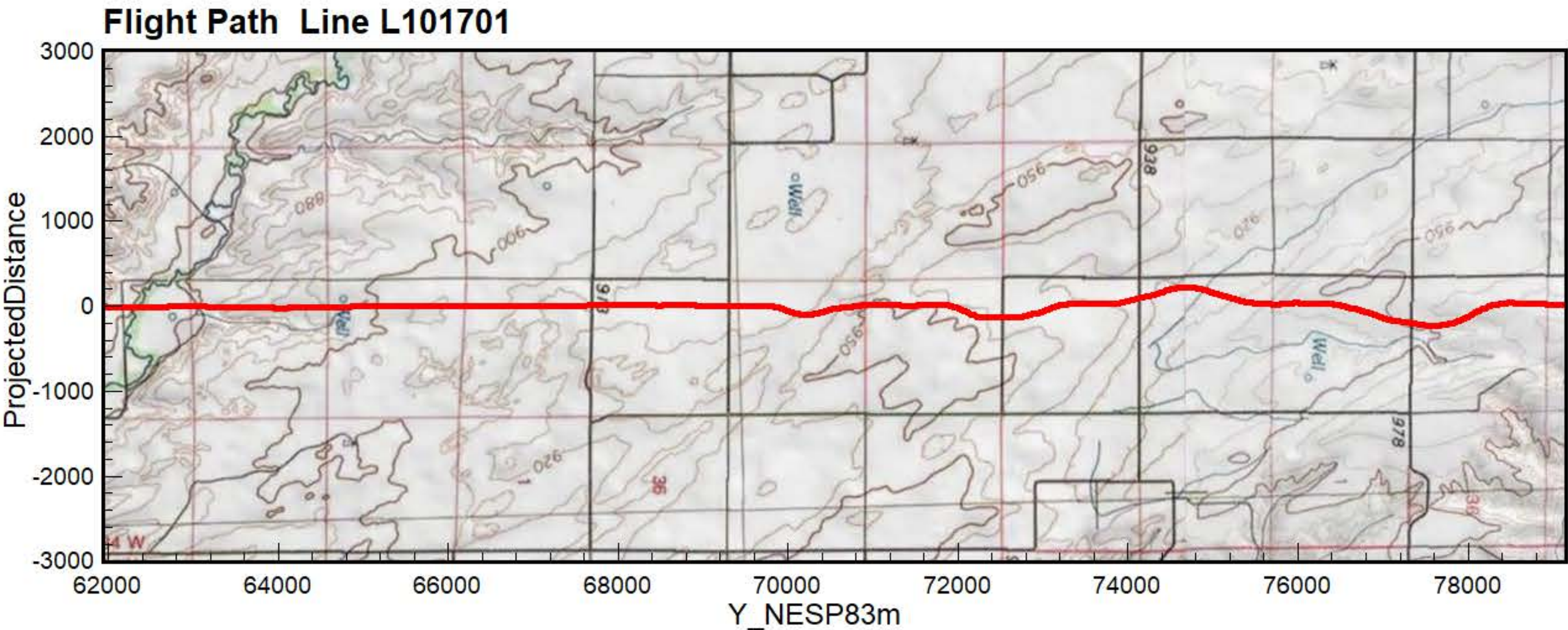
AEM Inversion Resistivity Line L101601



- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Grave
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).





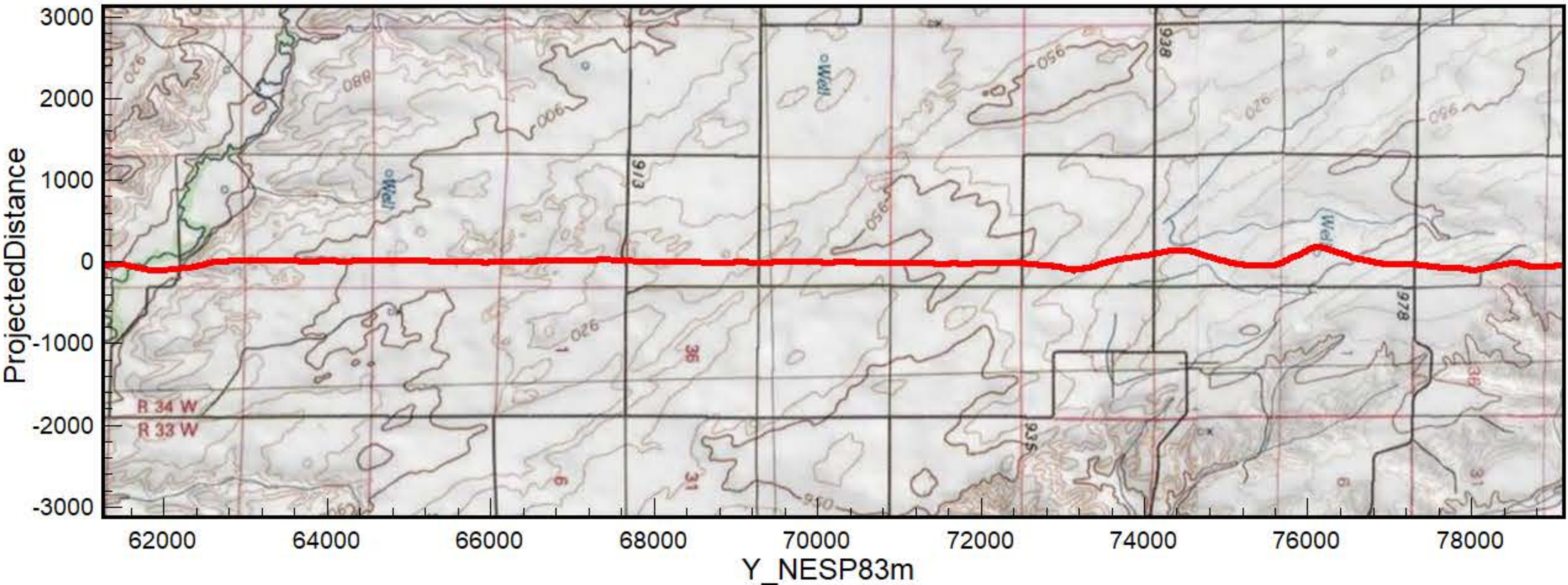
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

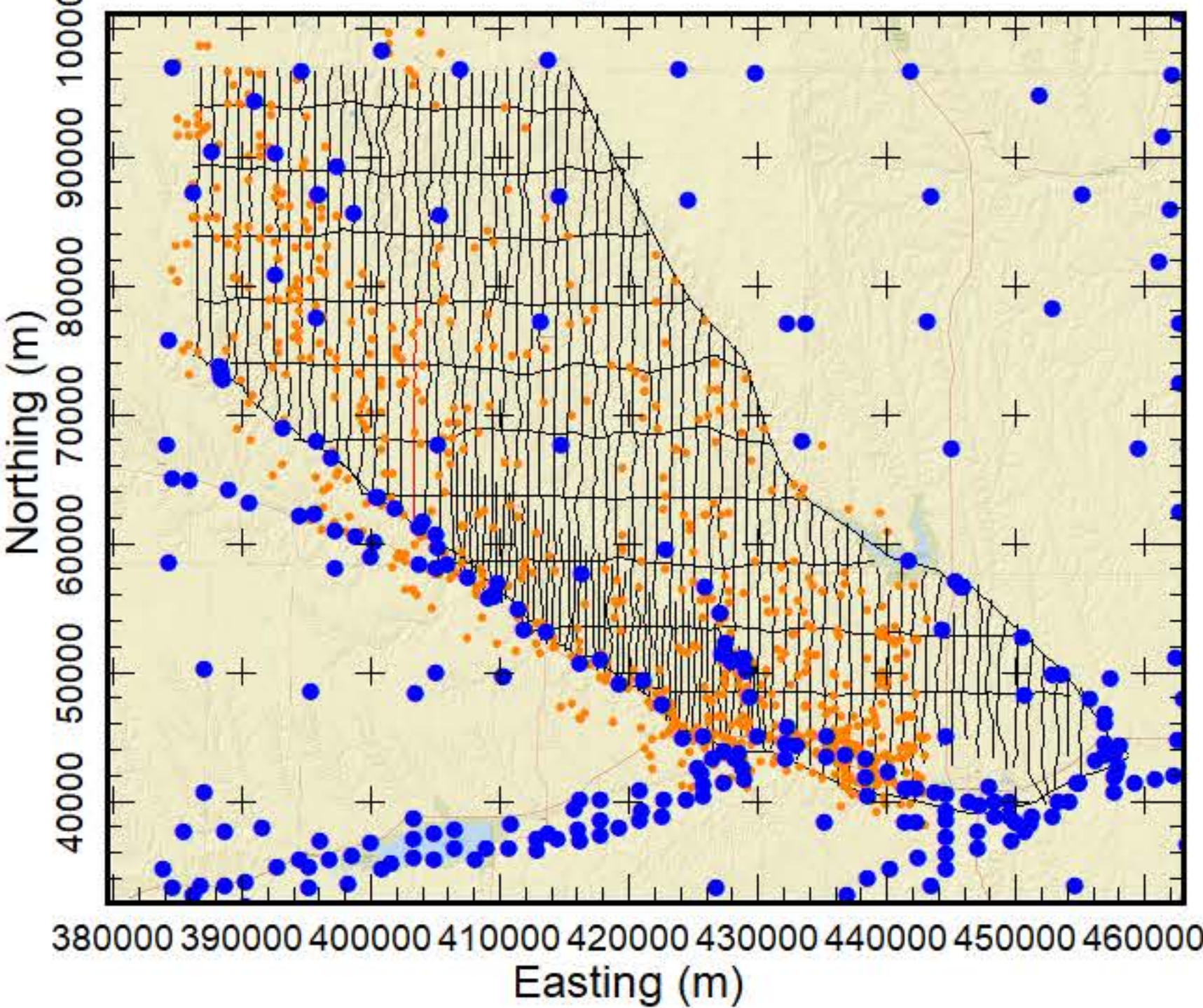




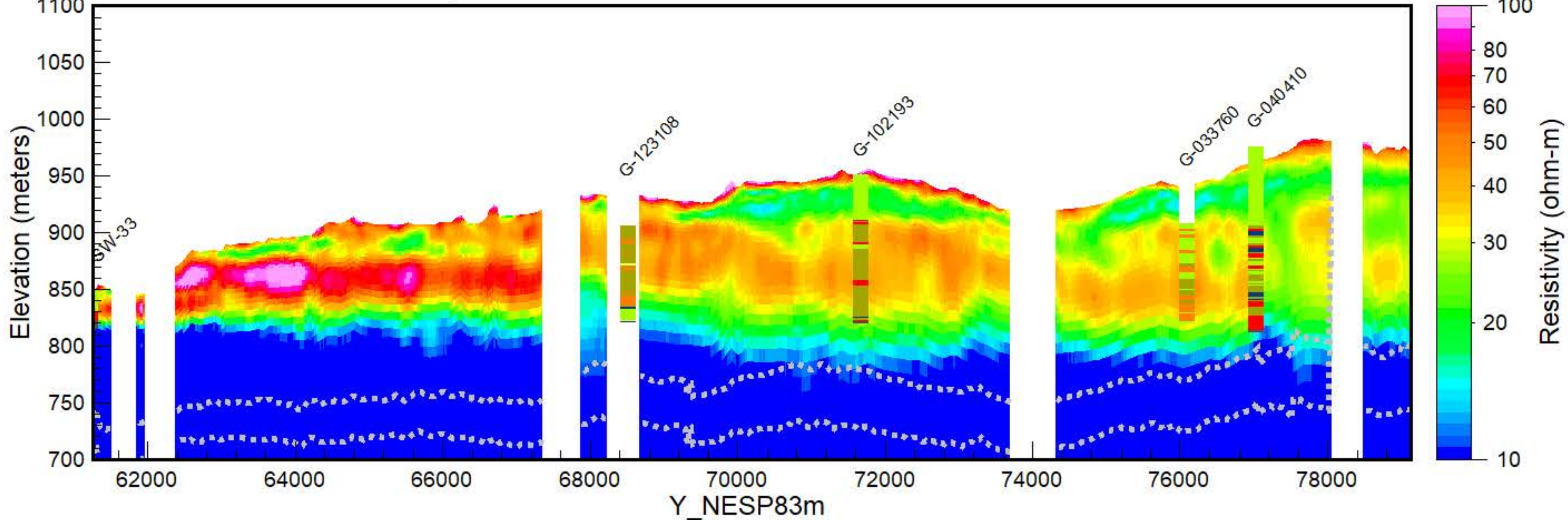
Flight Path Line L101801



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L101801



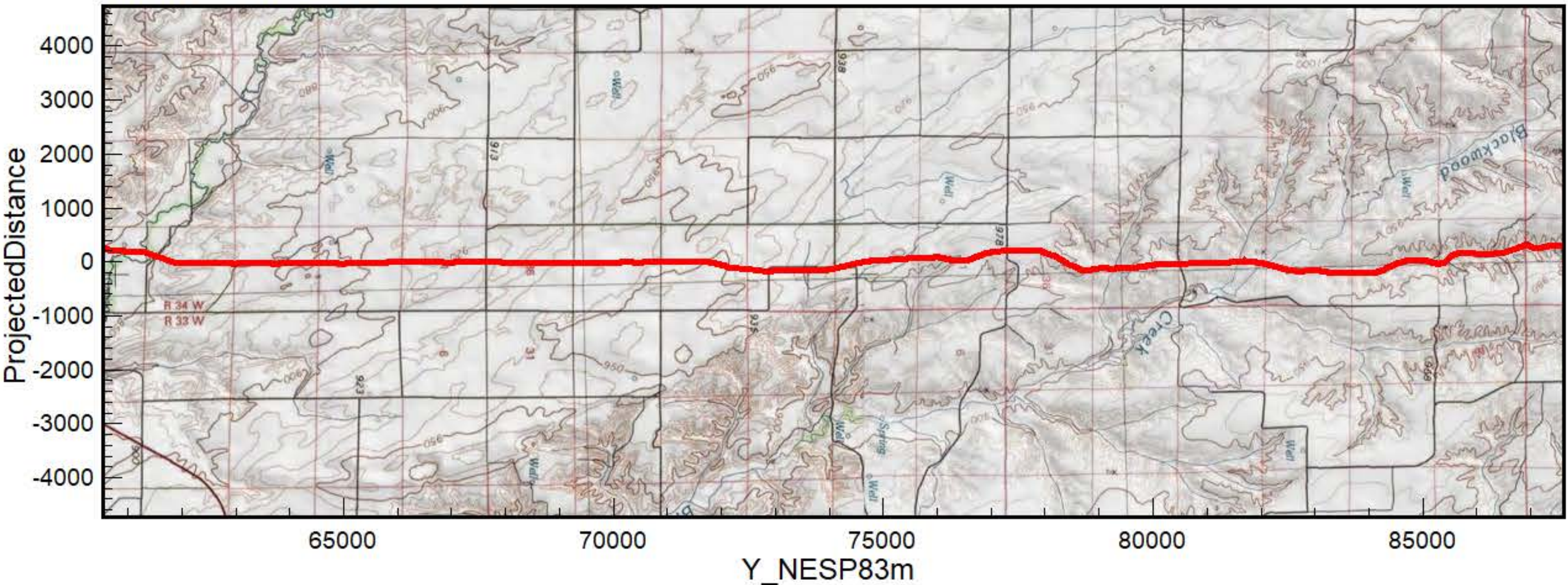
Limestone
Sandstone and Sand
Sandstone and Shale
Sandstone
Siltstone
Mudstone
Gravel and Shale
Sand and Shale
Shale and Sandstone
Shale and Clay
Clay and Shale
Shale
Clayey Shale/Claystone
Sandstone and Gravel
Gravel and Sandstone
Coarse-Gravel
Medium-Coarse-Grave
Fine-Medium-Gravel
Medium-Gravel
Gravel/Boulders
Fine-Medium-Coarse-Gravel
Fine-Coarse-Gravel
Fine-Gravel
Gravel and Sand
Gravel and Silt
Sand and Gravel
Coarse-Sand
Medium-Coarse-Sand
Medium-Sand
Sand
Fine-Medium-Coarse-Sand
Fine-Coarse-Sand
Fine-Medium-Sand
Fine-Sand
Sand and Silt
Silt and Gravel
Silty Sand
Silt/Loess
Till
Silt and Clay
Gravel and Clay
Clay and Gravel
Sandy Clay
Clay and Sand
Clay
Clay and Silt
Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

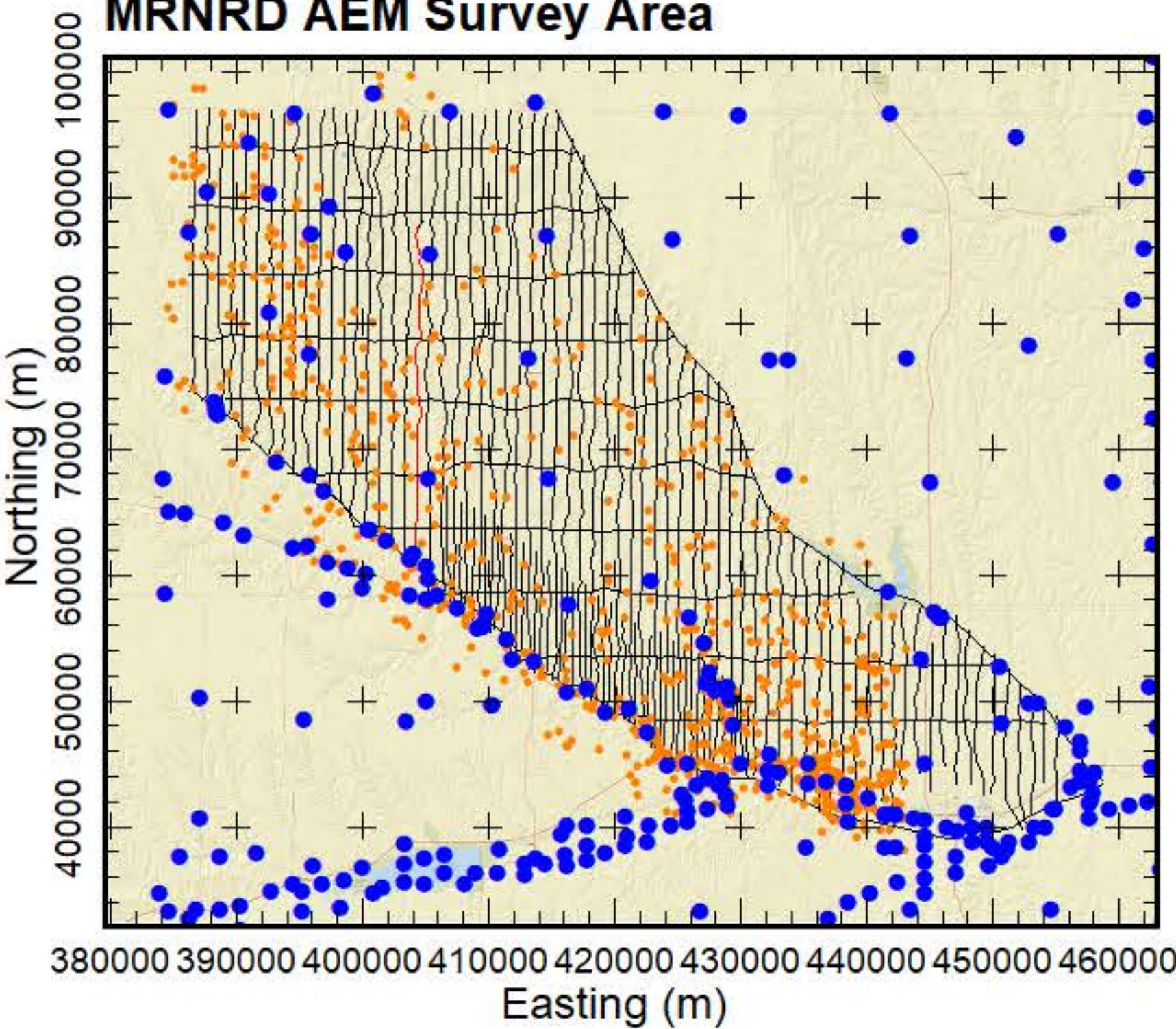




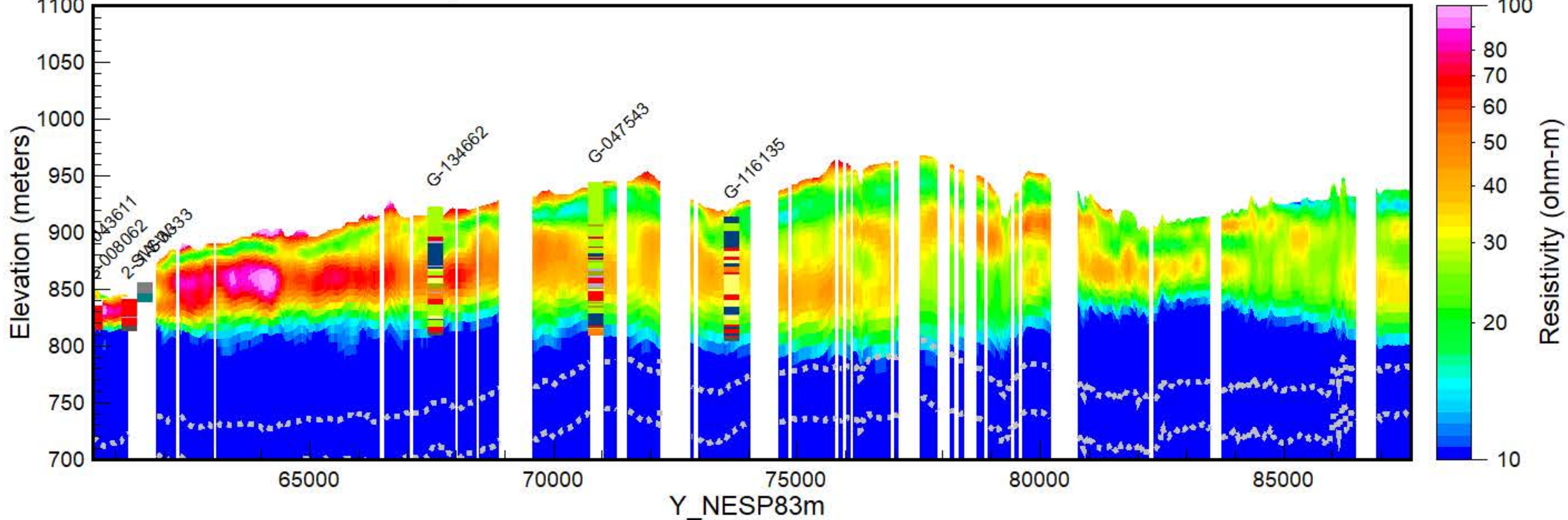
Flight Path Line L101802



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L101802



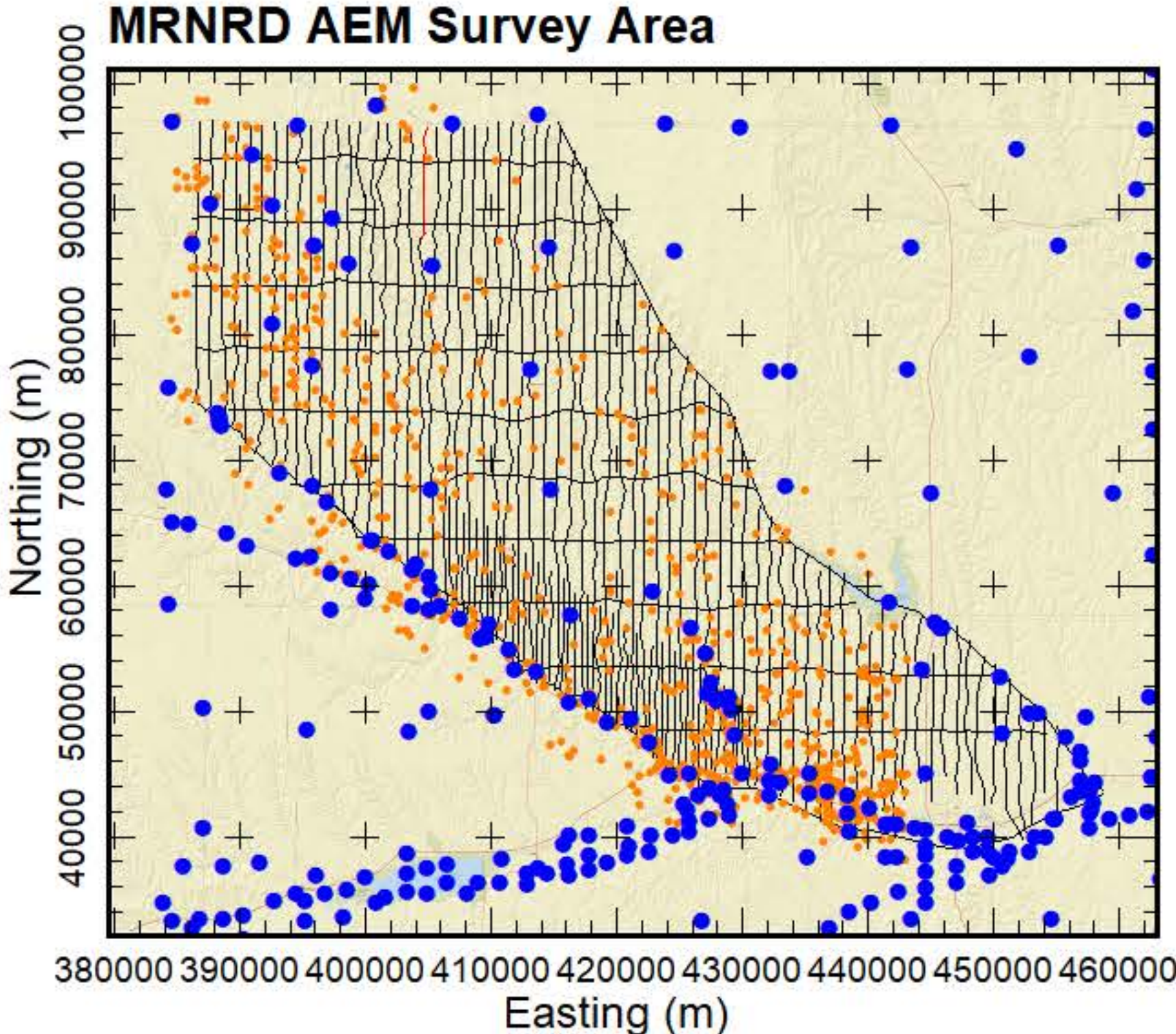
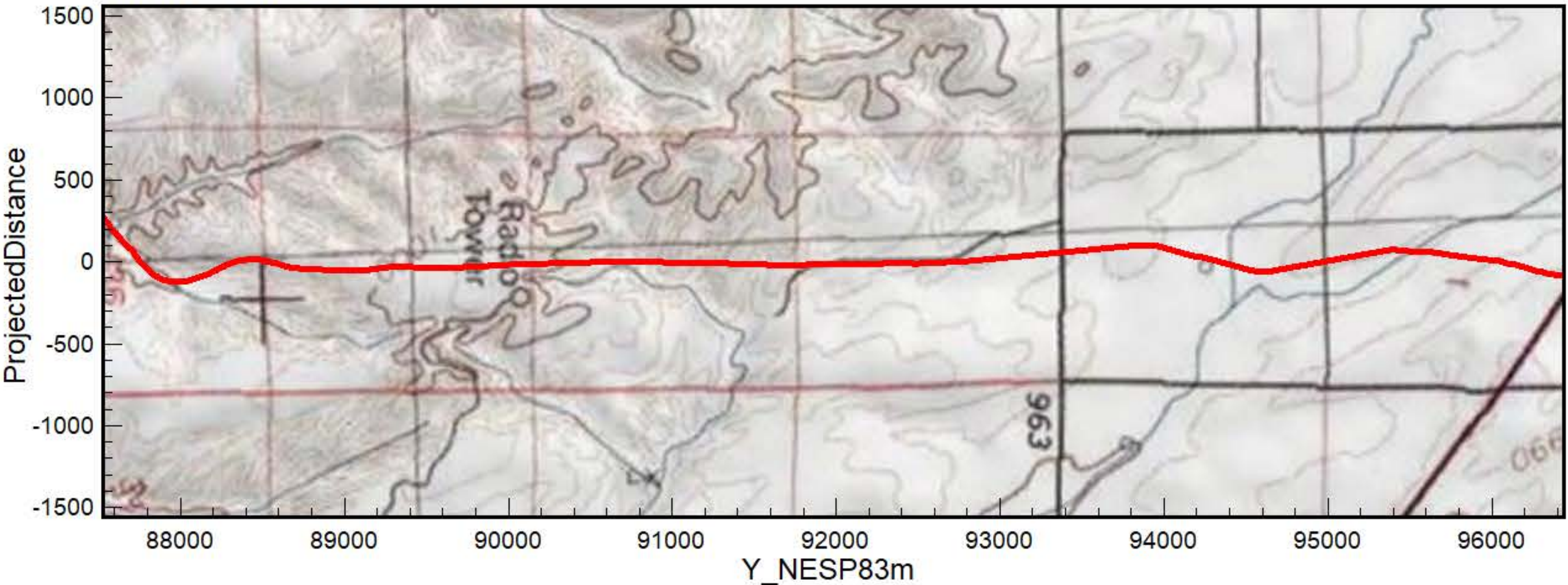
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Grave
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

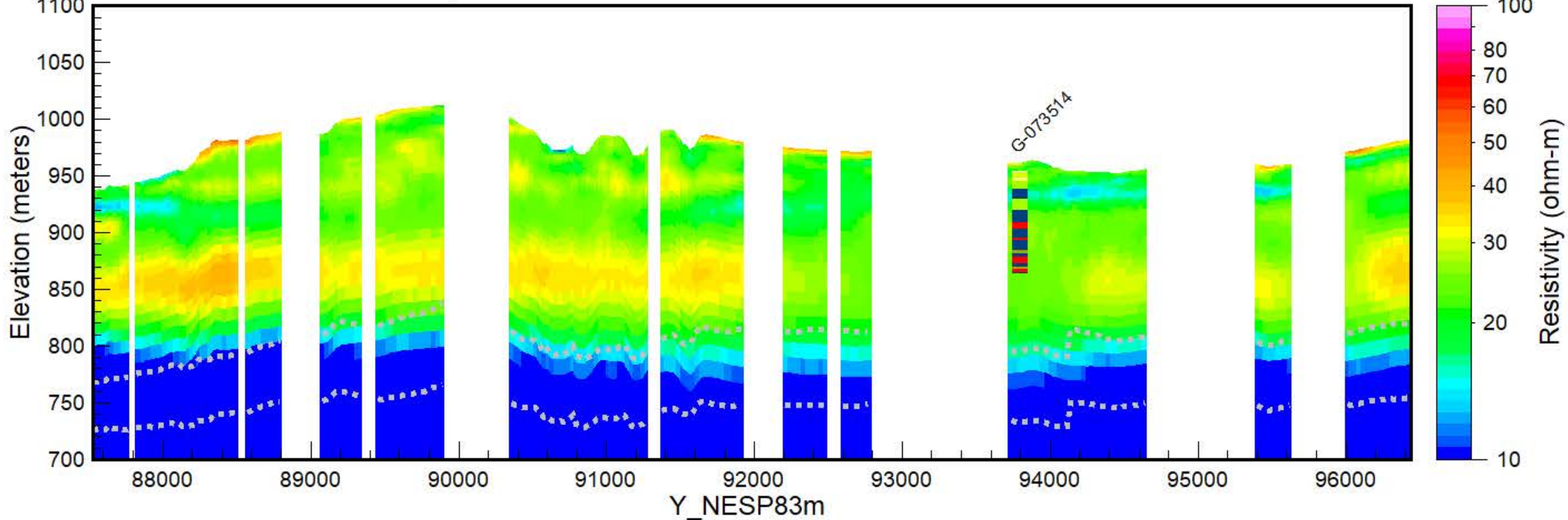




Flight Path Line L101803



AEM Inversion Resistivity Line L101803



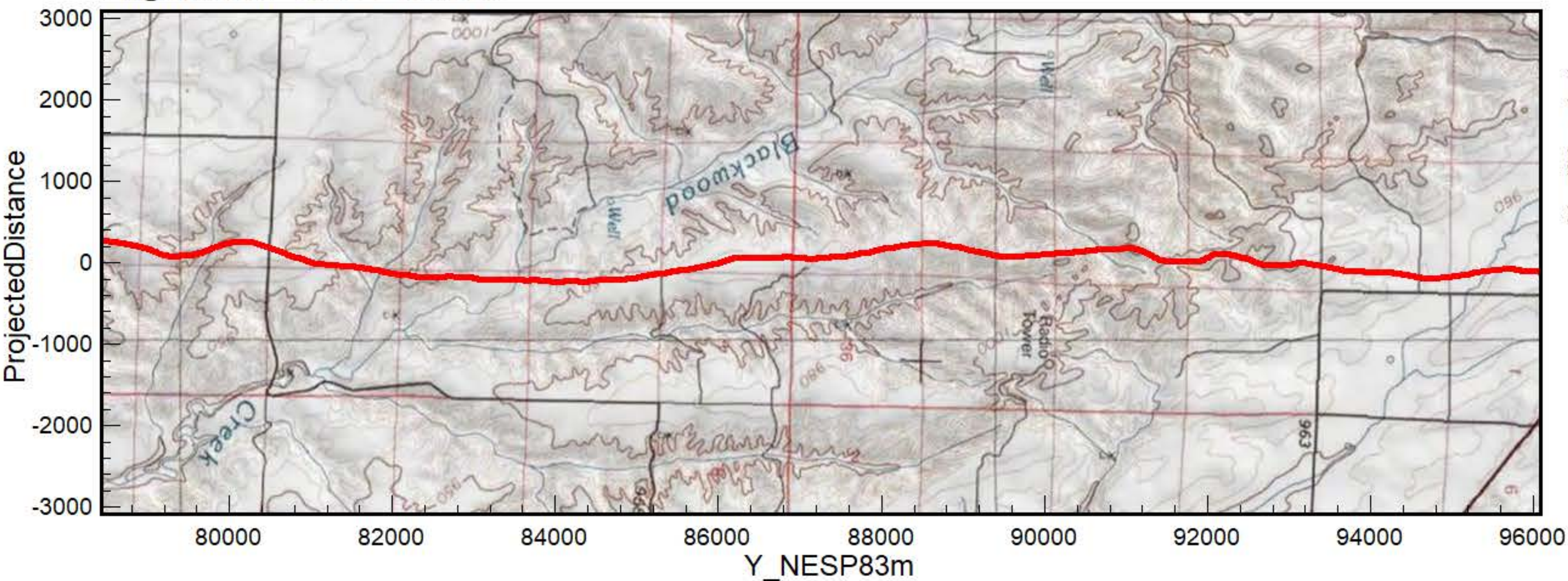
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Grave
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

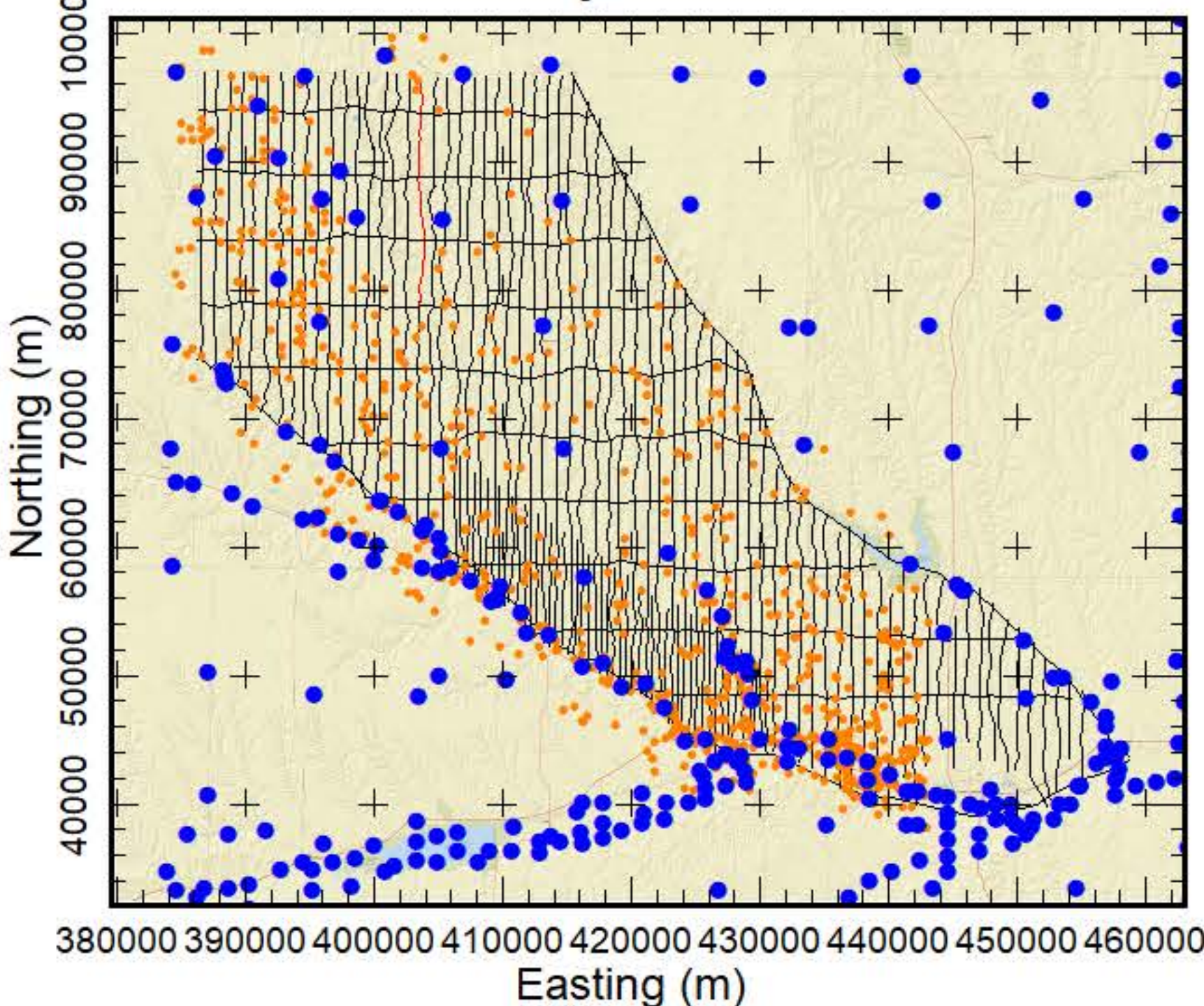




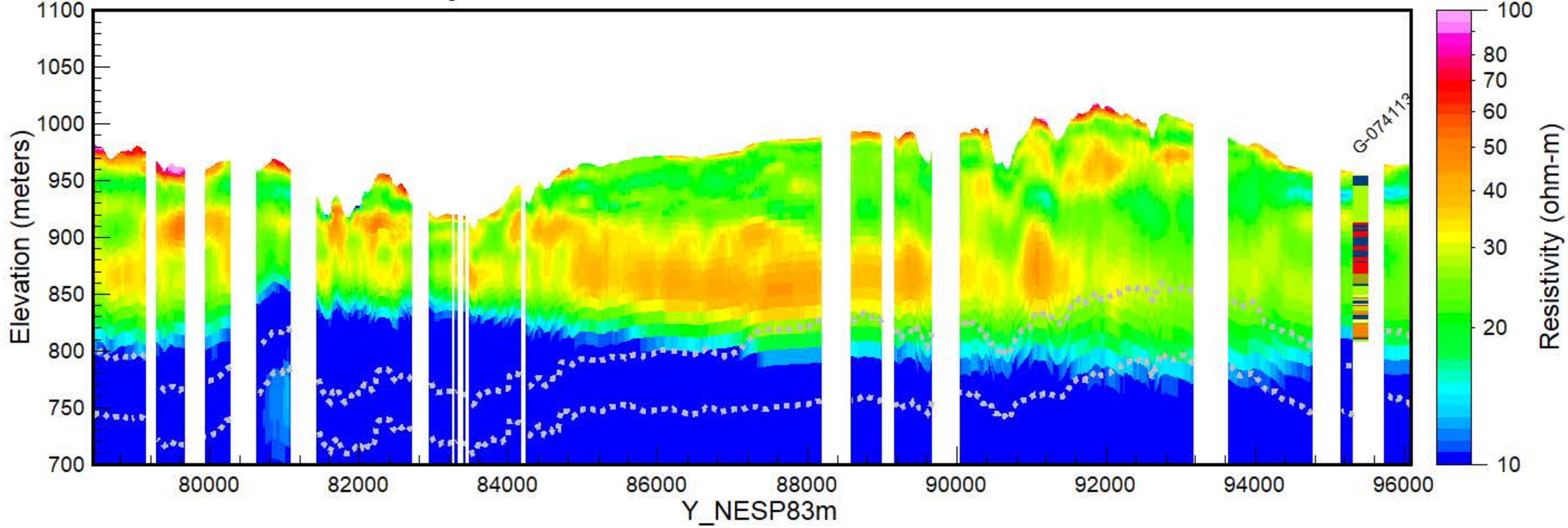
Flight Path Line L101804



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L101804



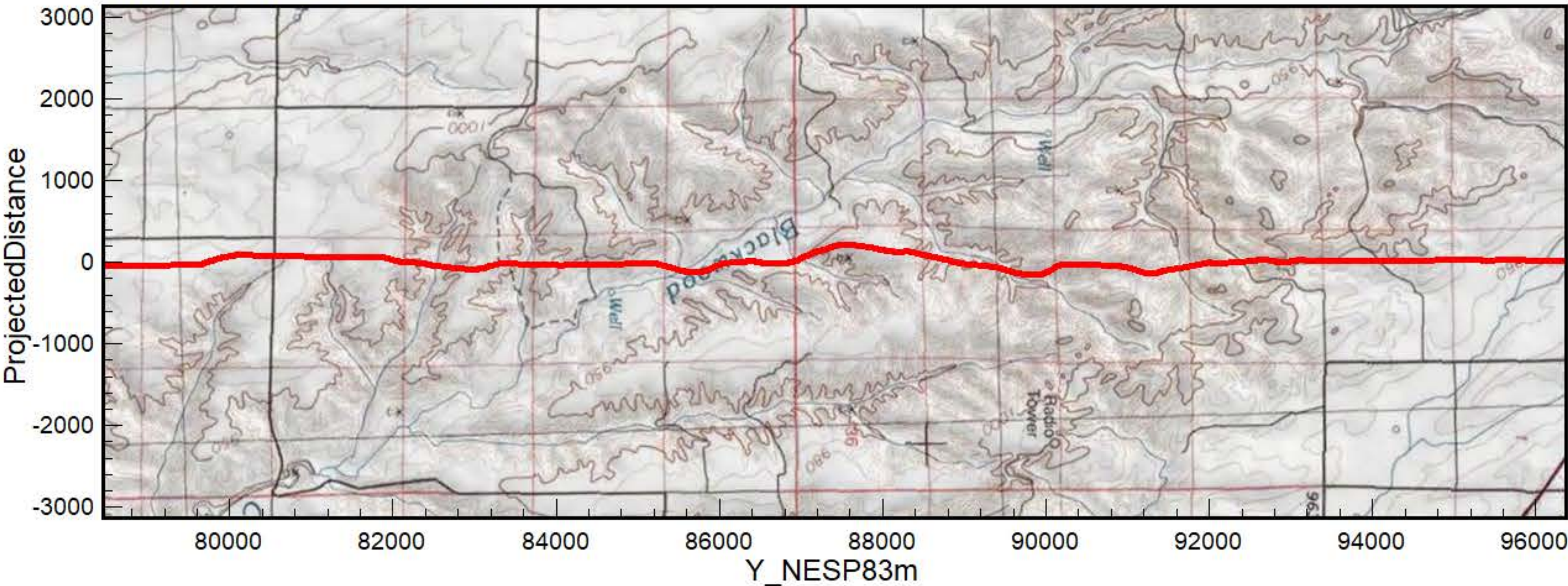
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Grave
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

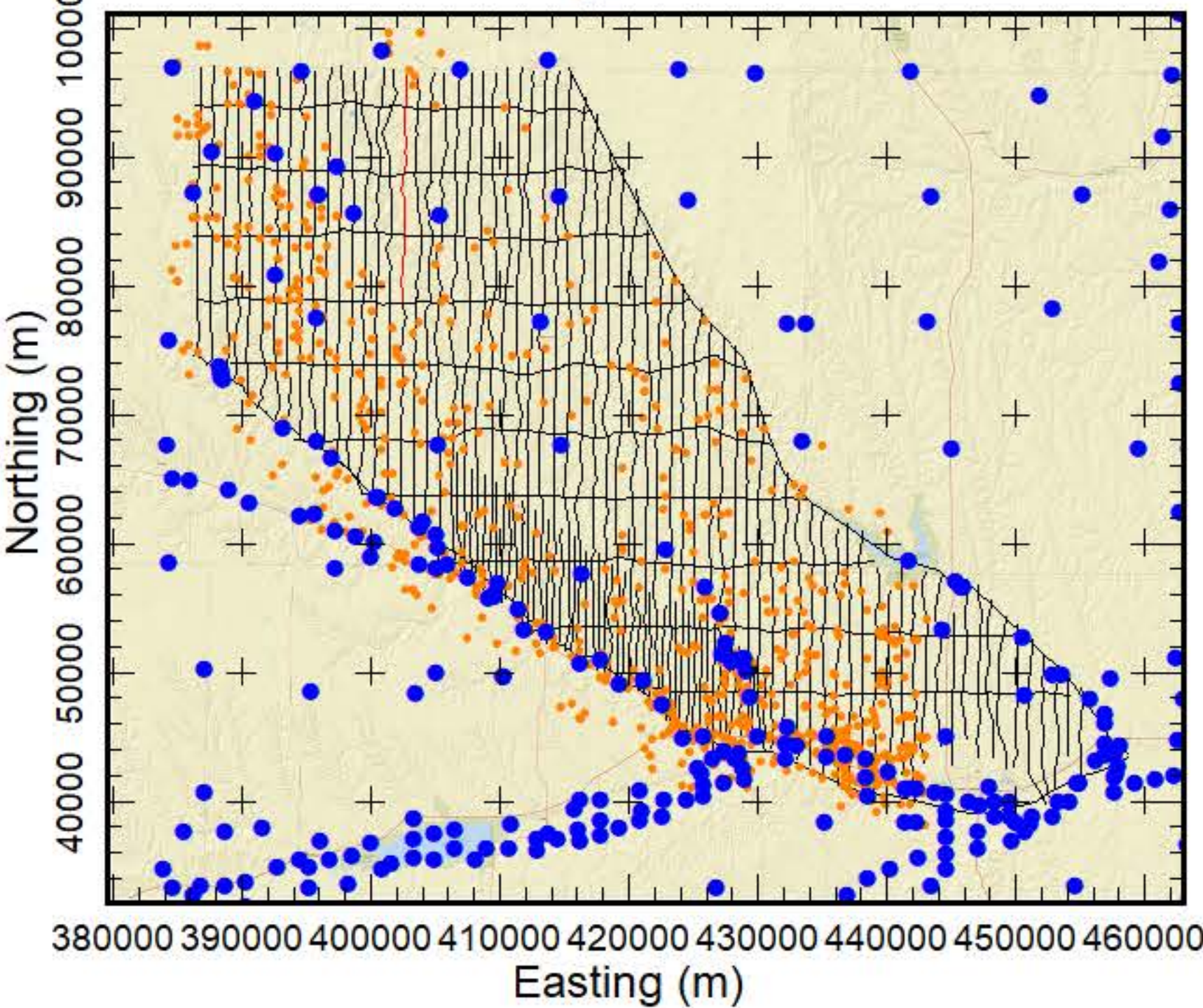




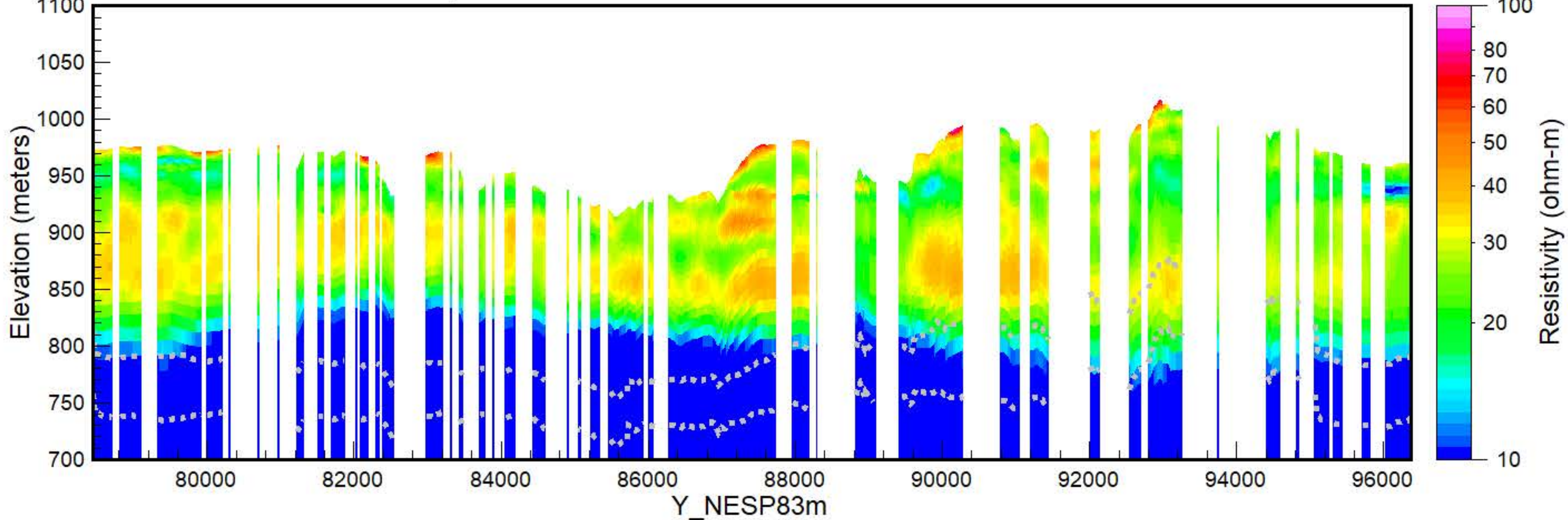
Flight Path Line L101805



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L101805



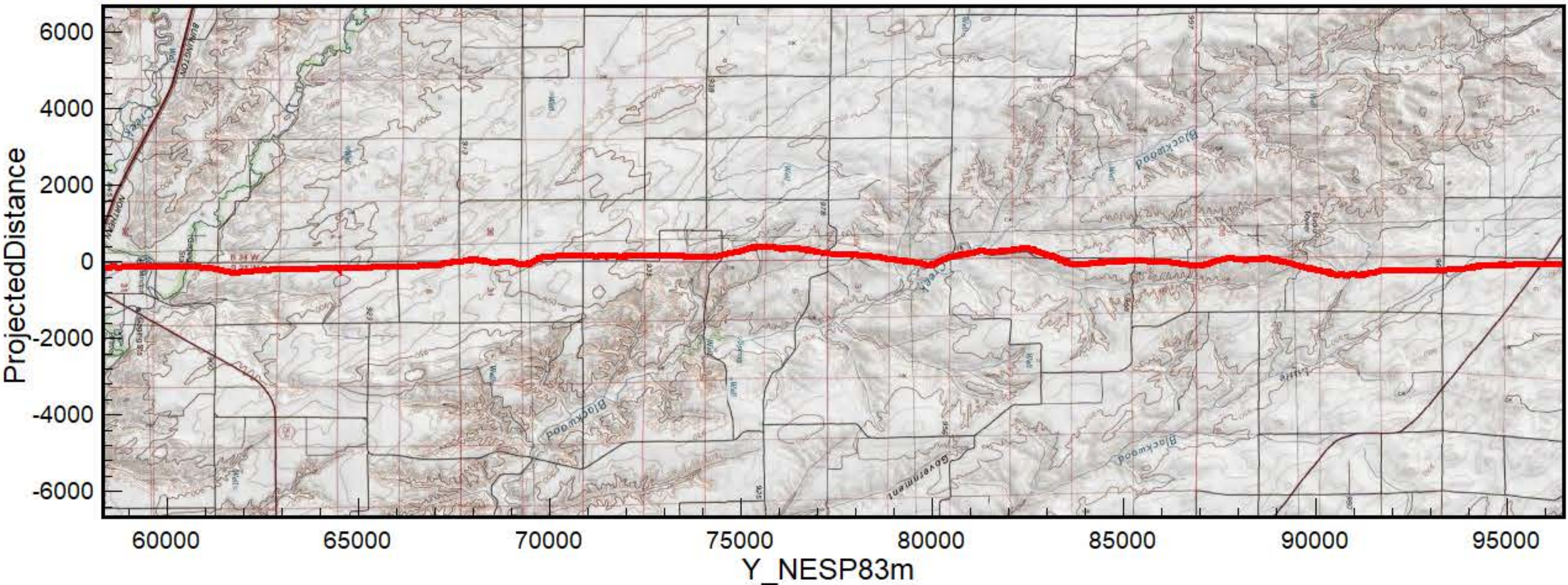
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Grave
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

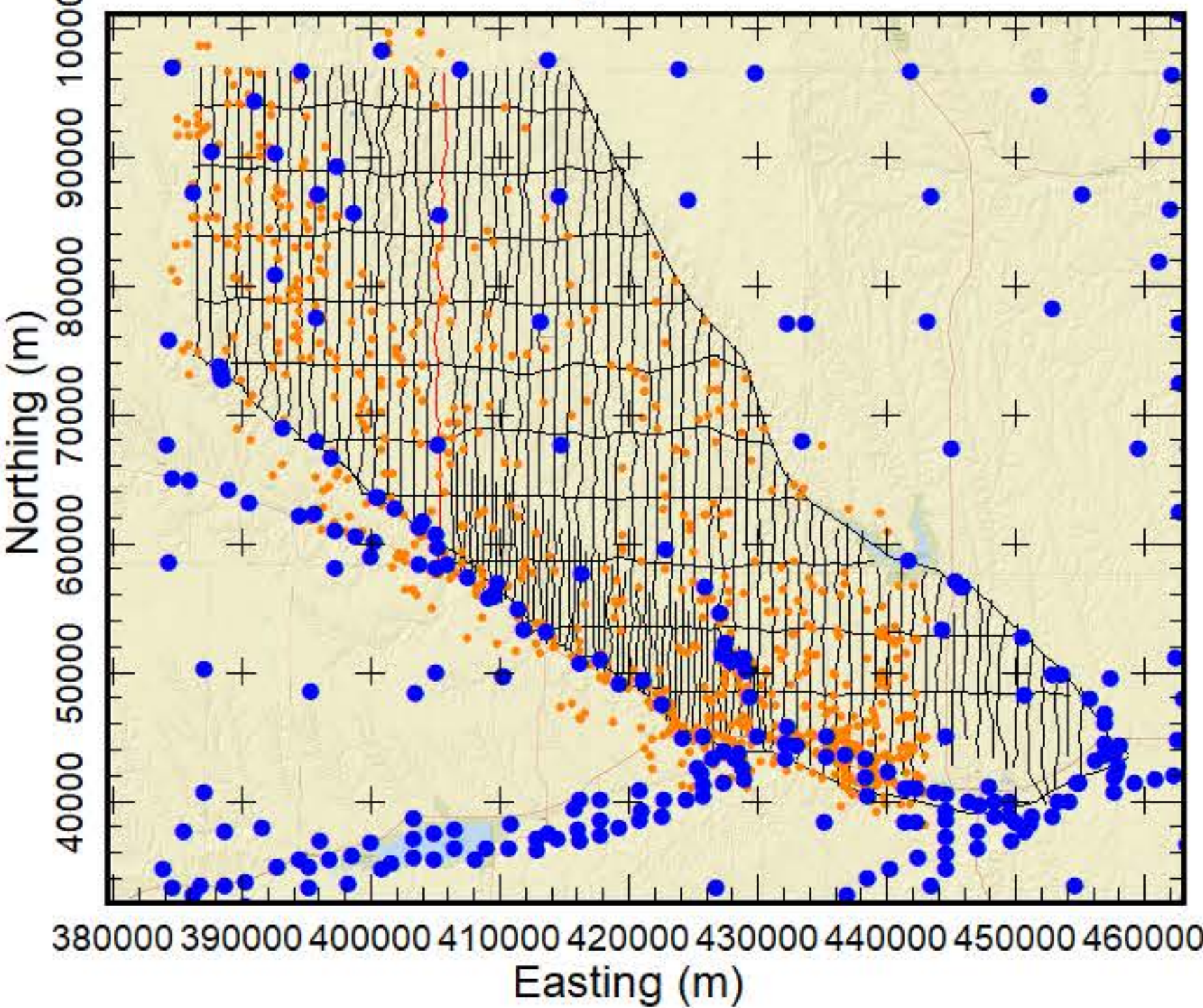




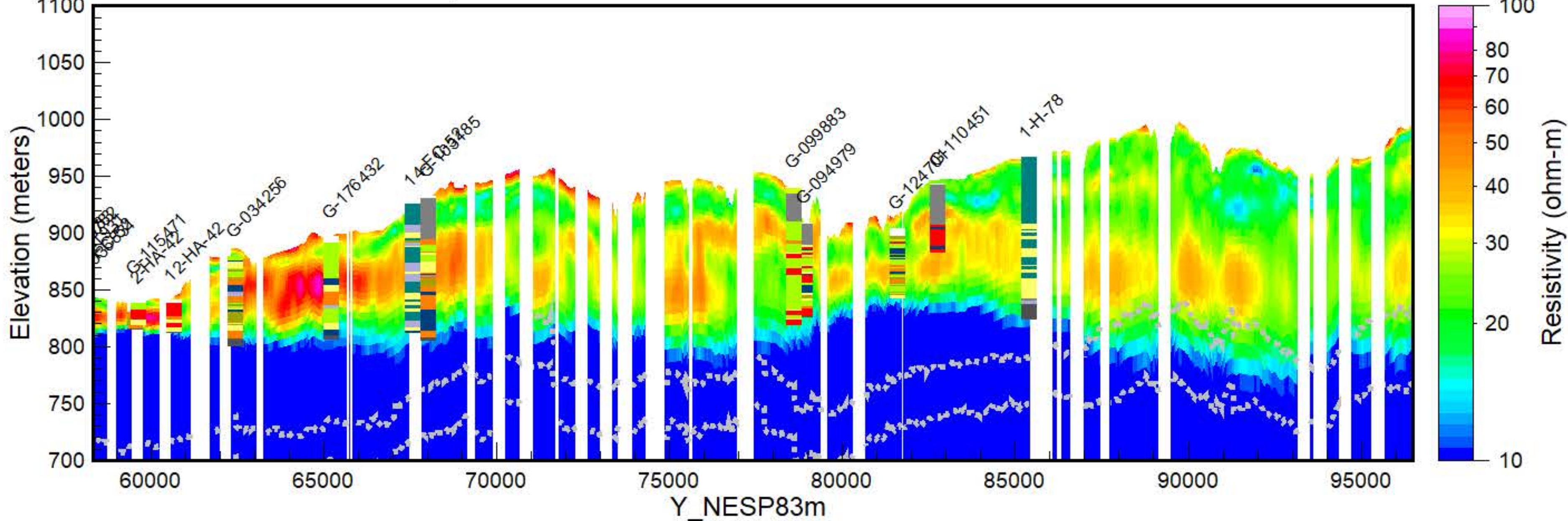
Flight Path Line L101806



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L101806



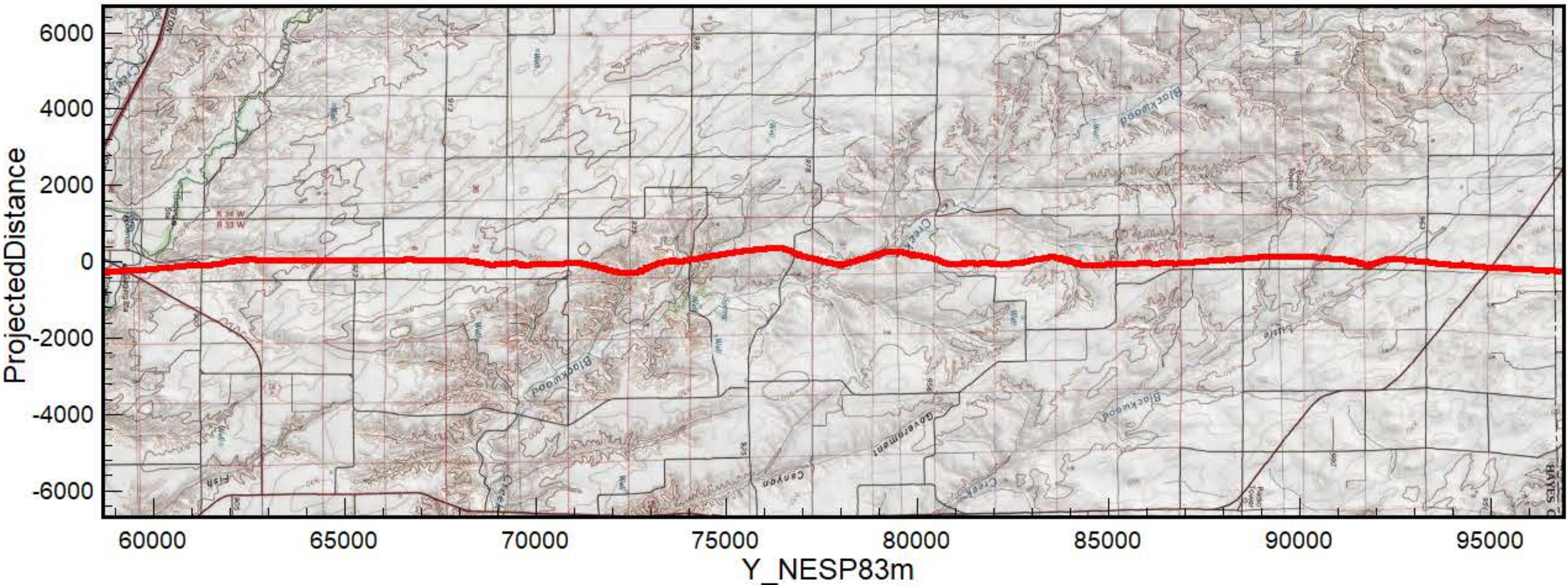
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Grave
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

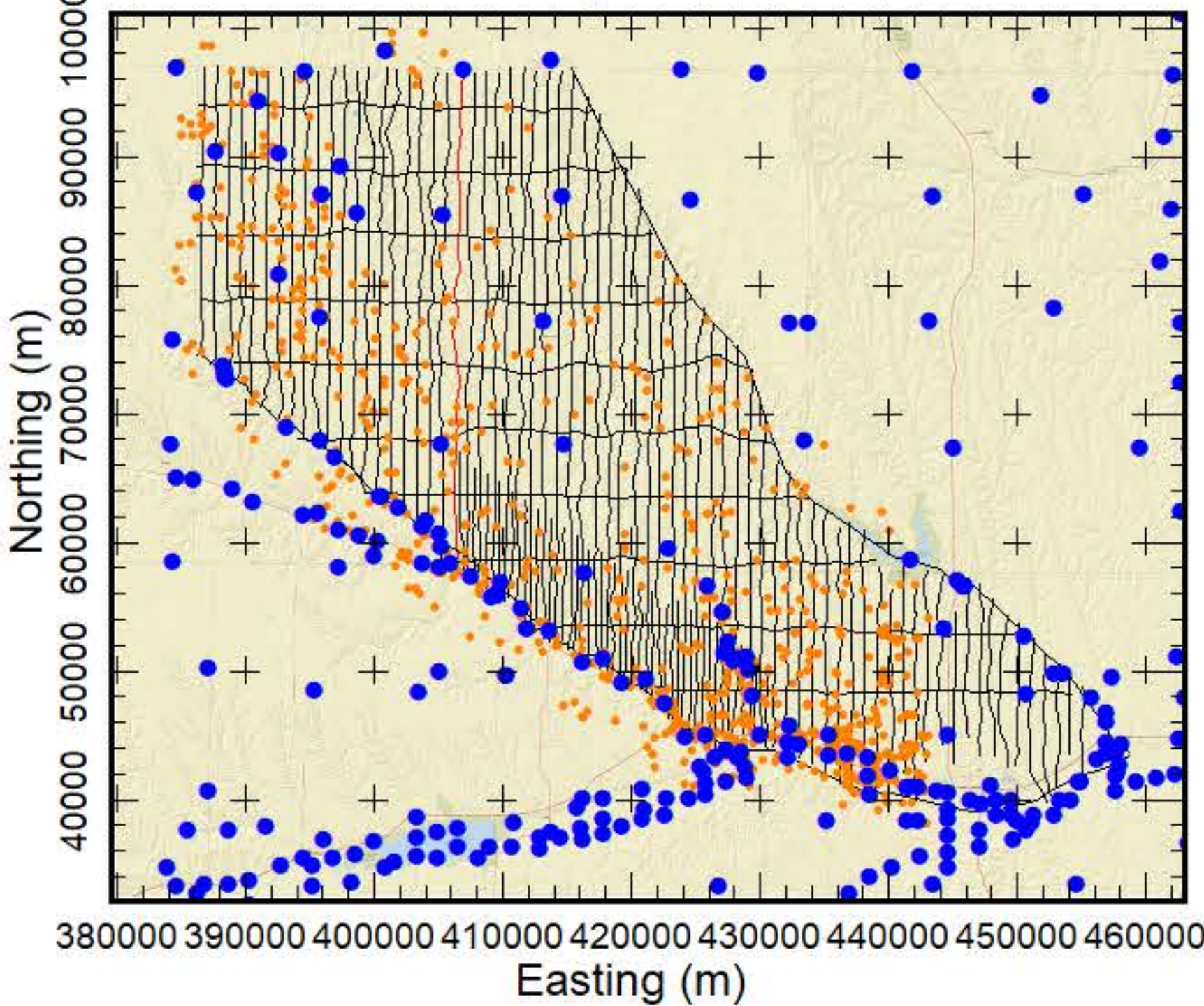




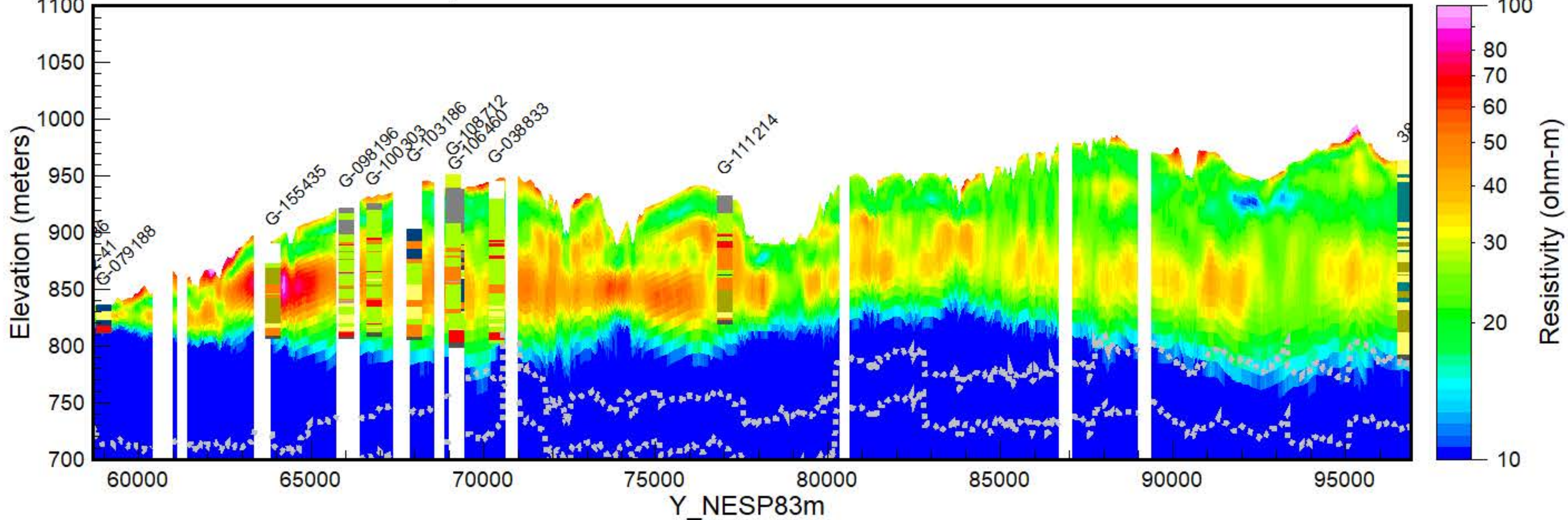
Flight Path Line L101807



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L101807



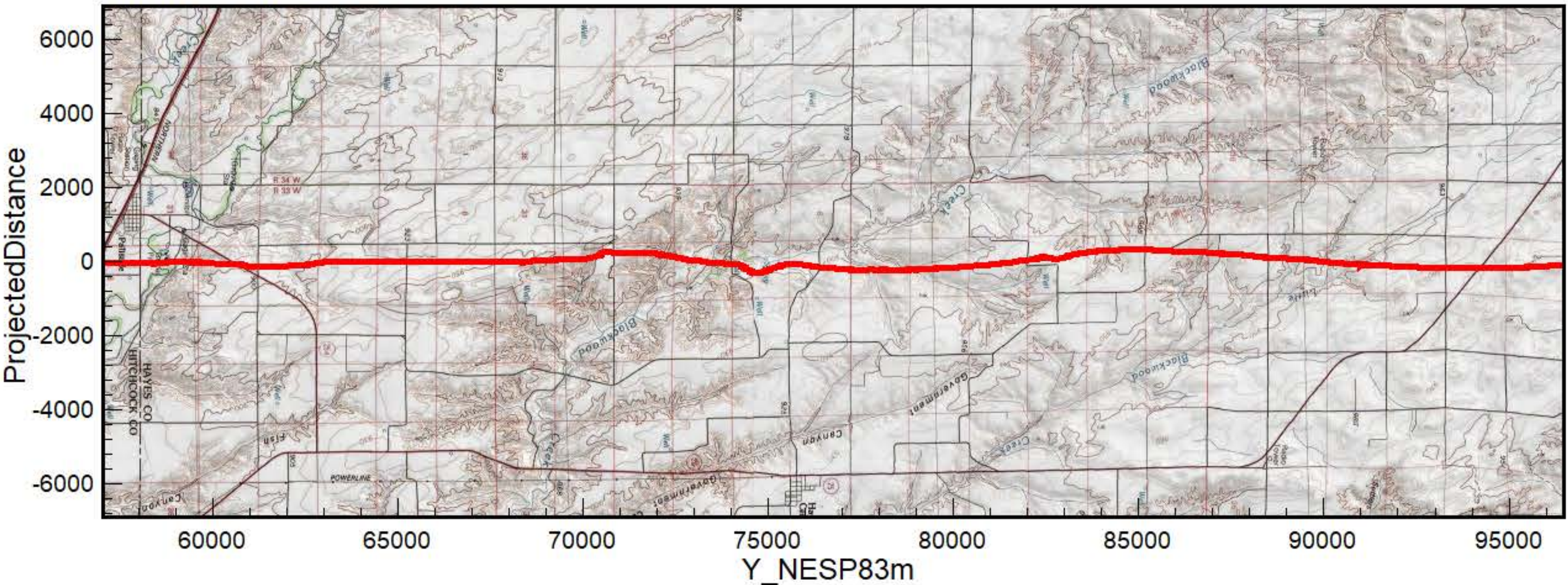
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Grave
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

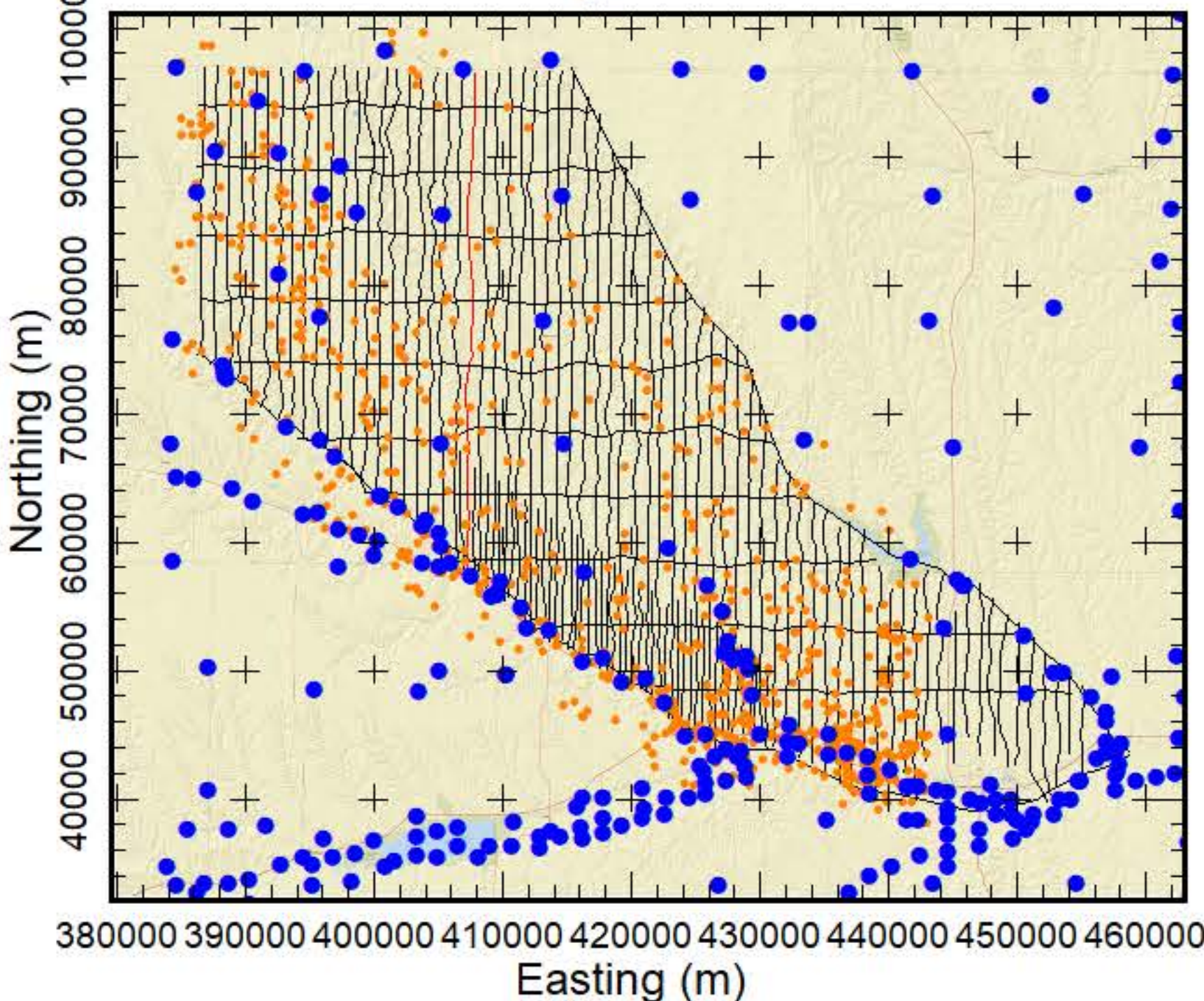




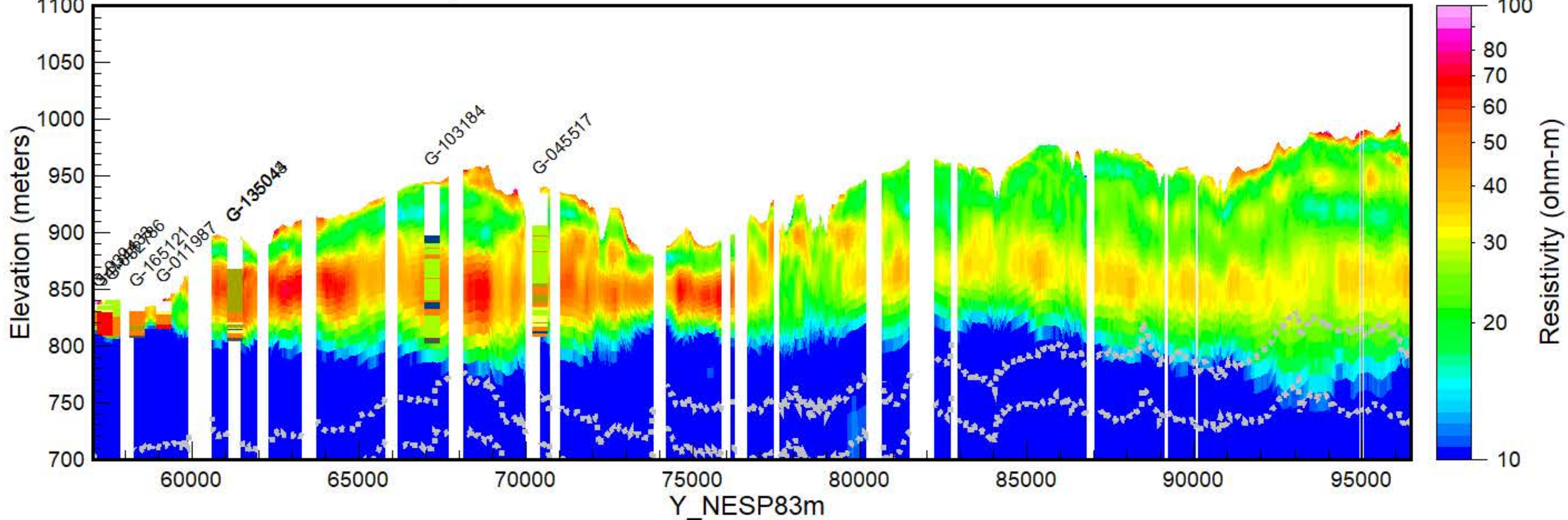
Flight Path Line L101808



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L101808



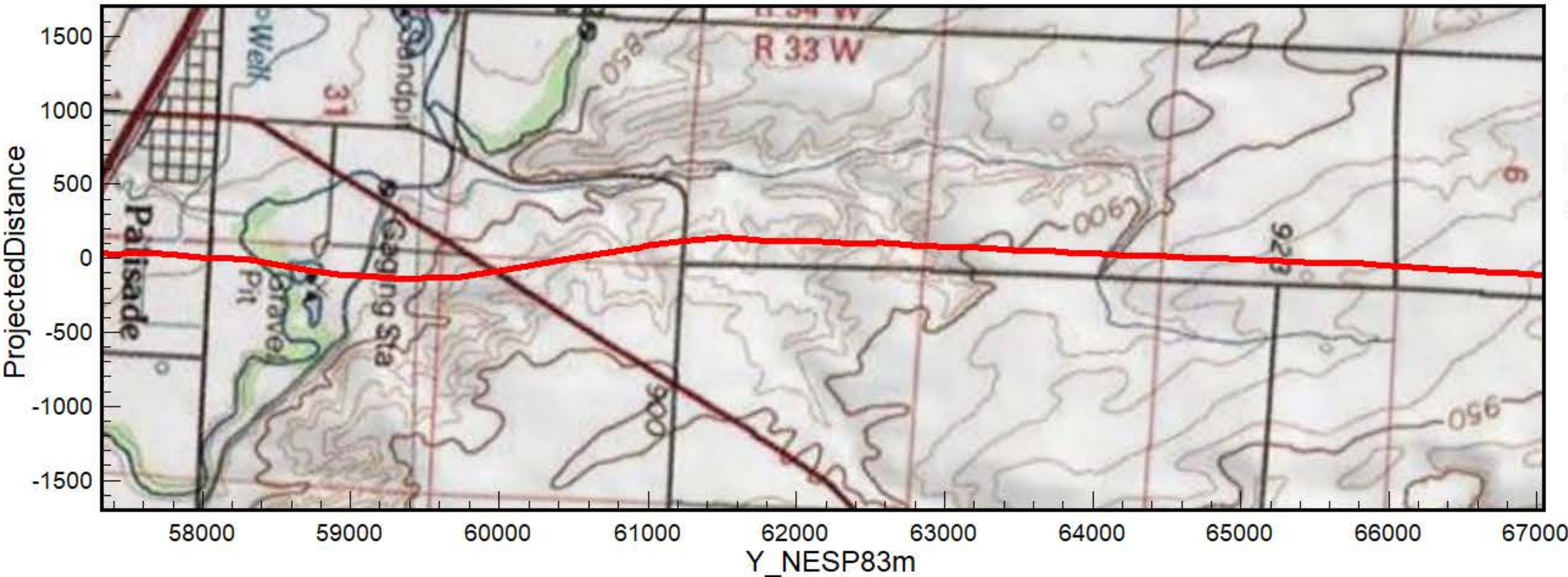
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Grave
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

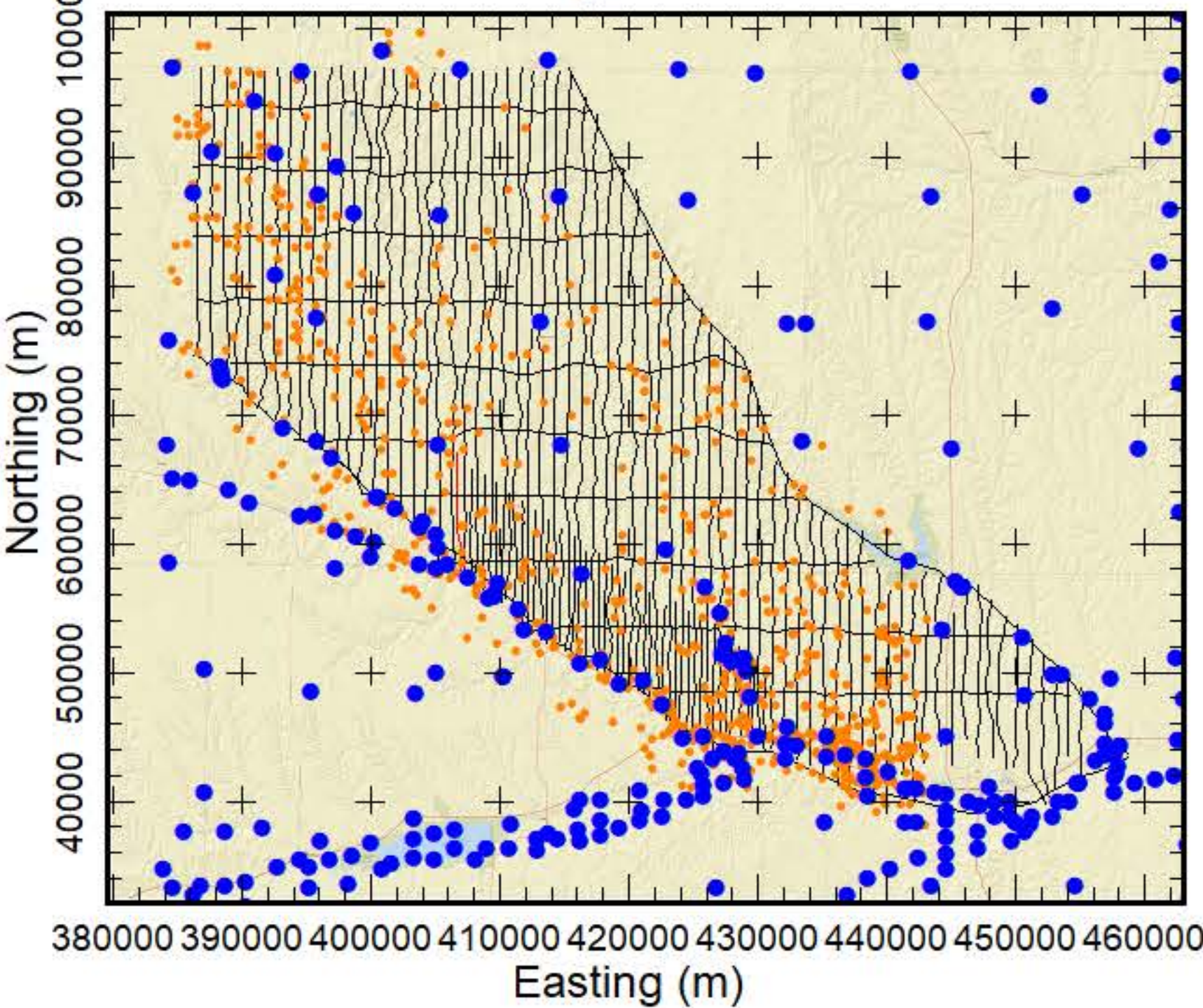




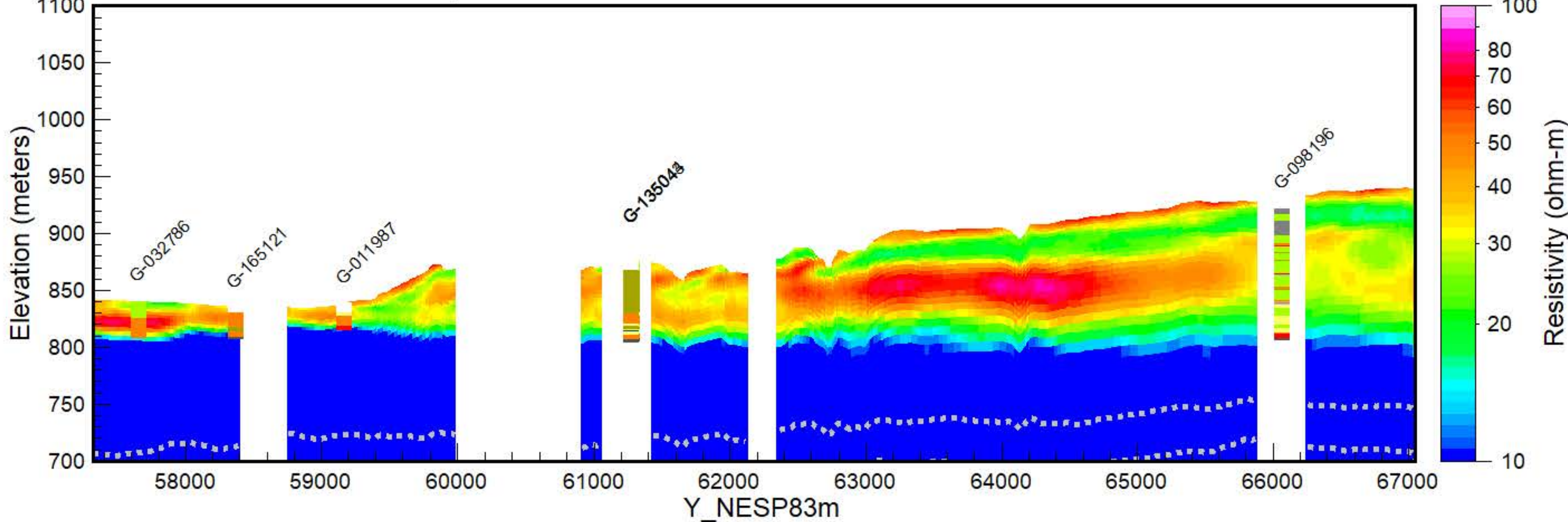
Flight Path Line L101809



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L101809



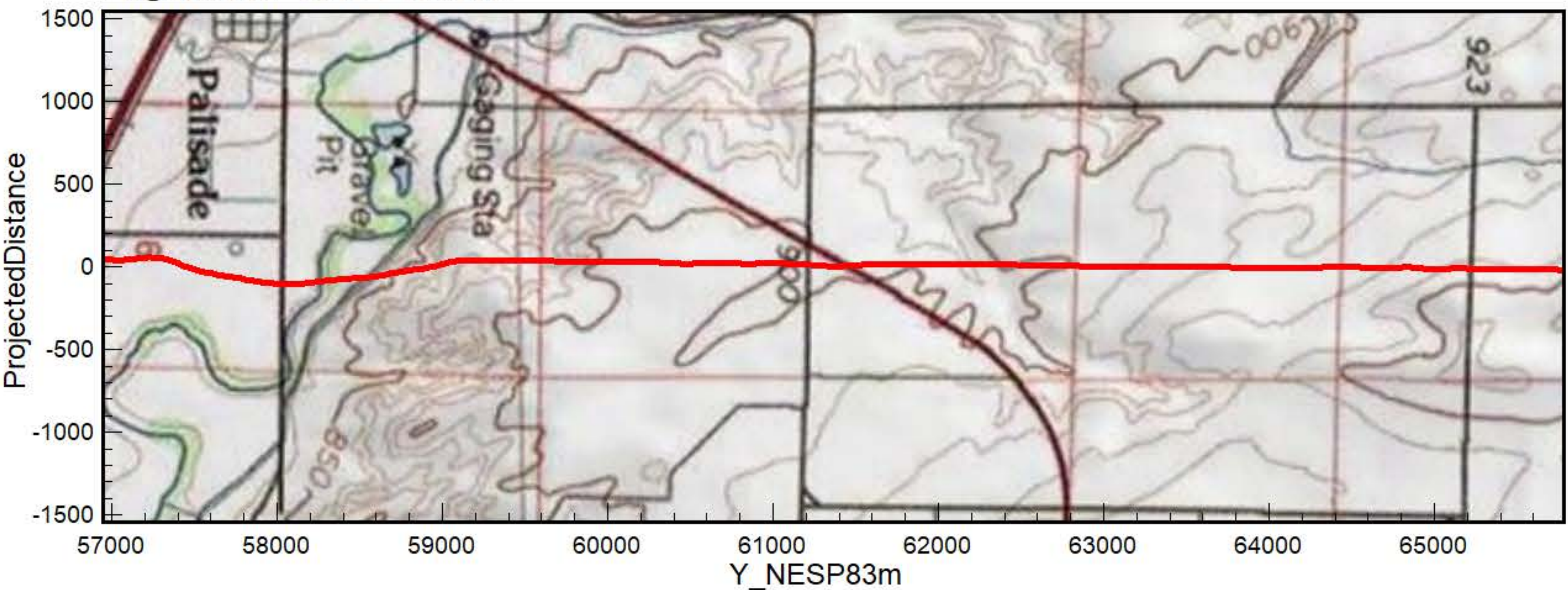
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

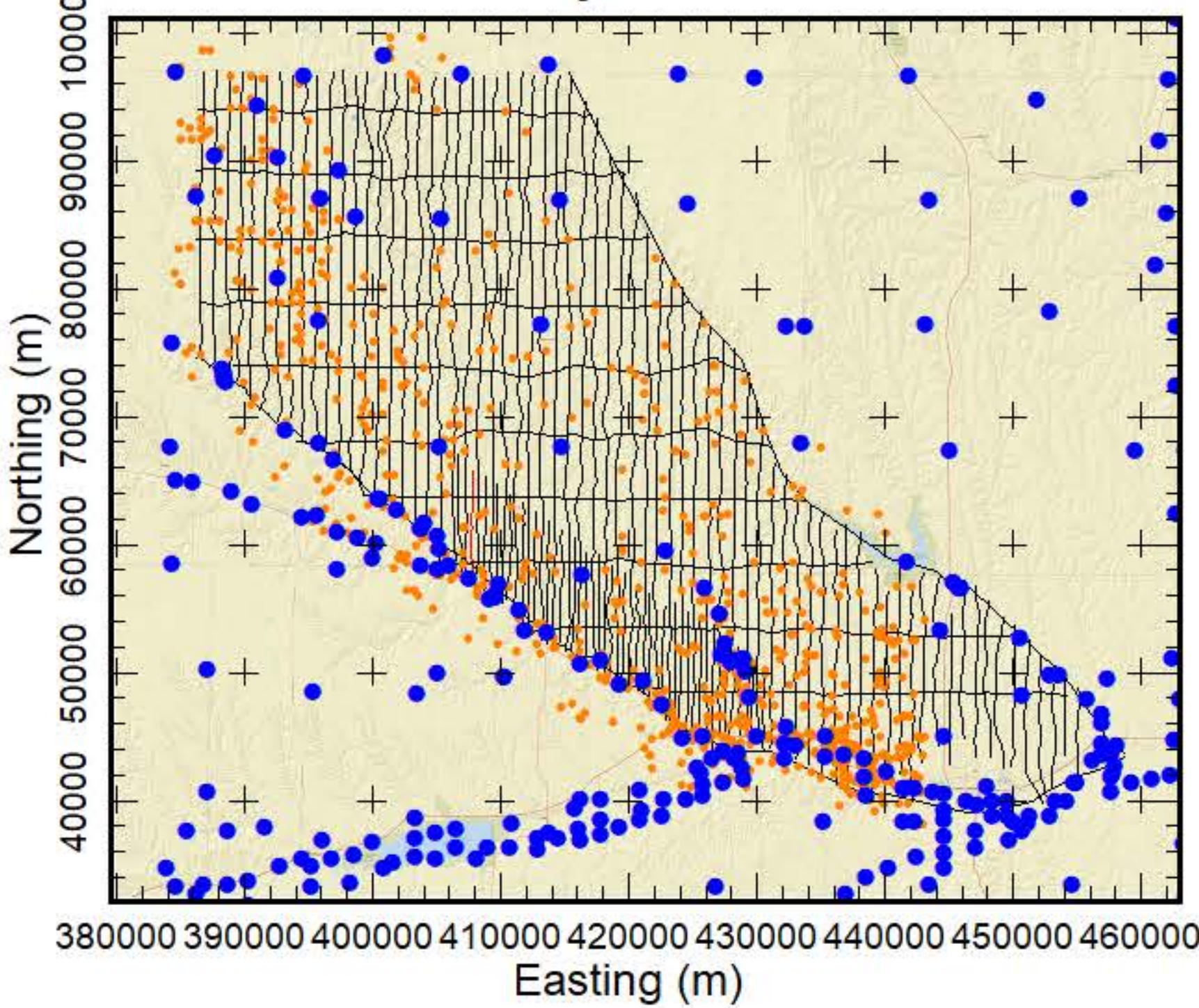




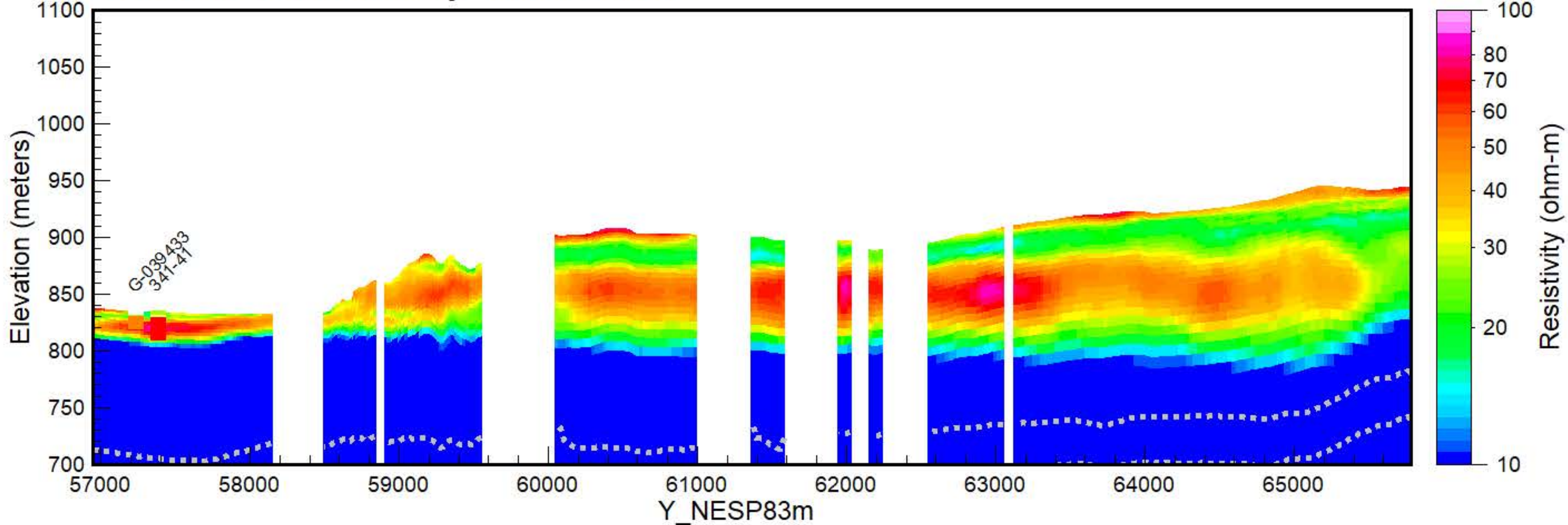
Flight Path Line L101810



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L101810



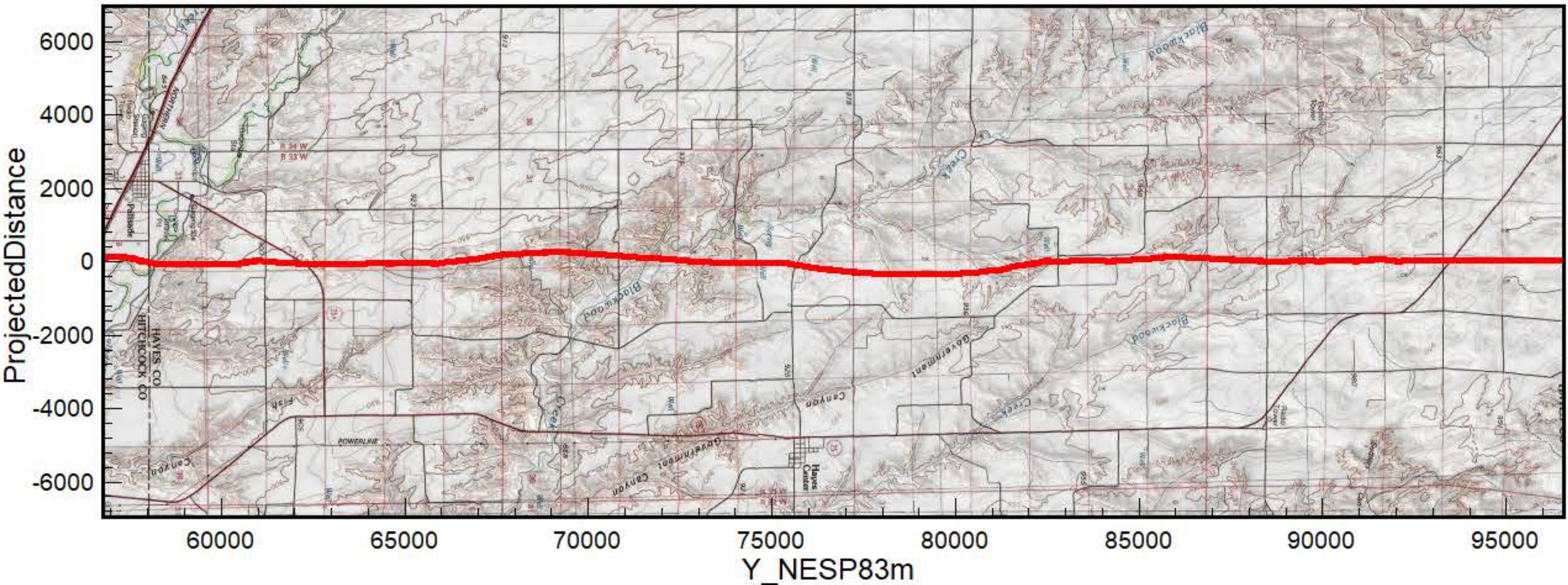
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

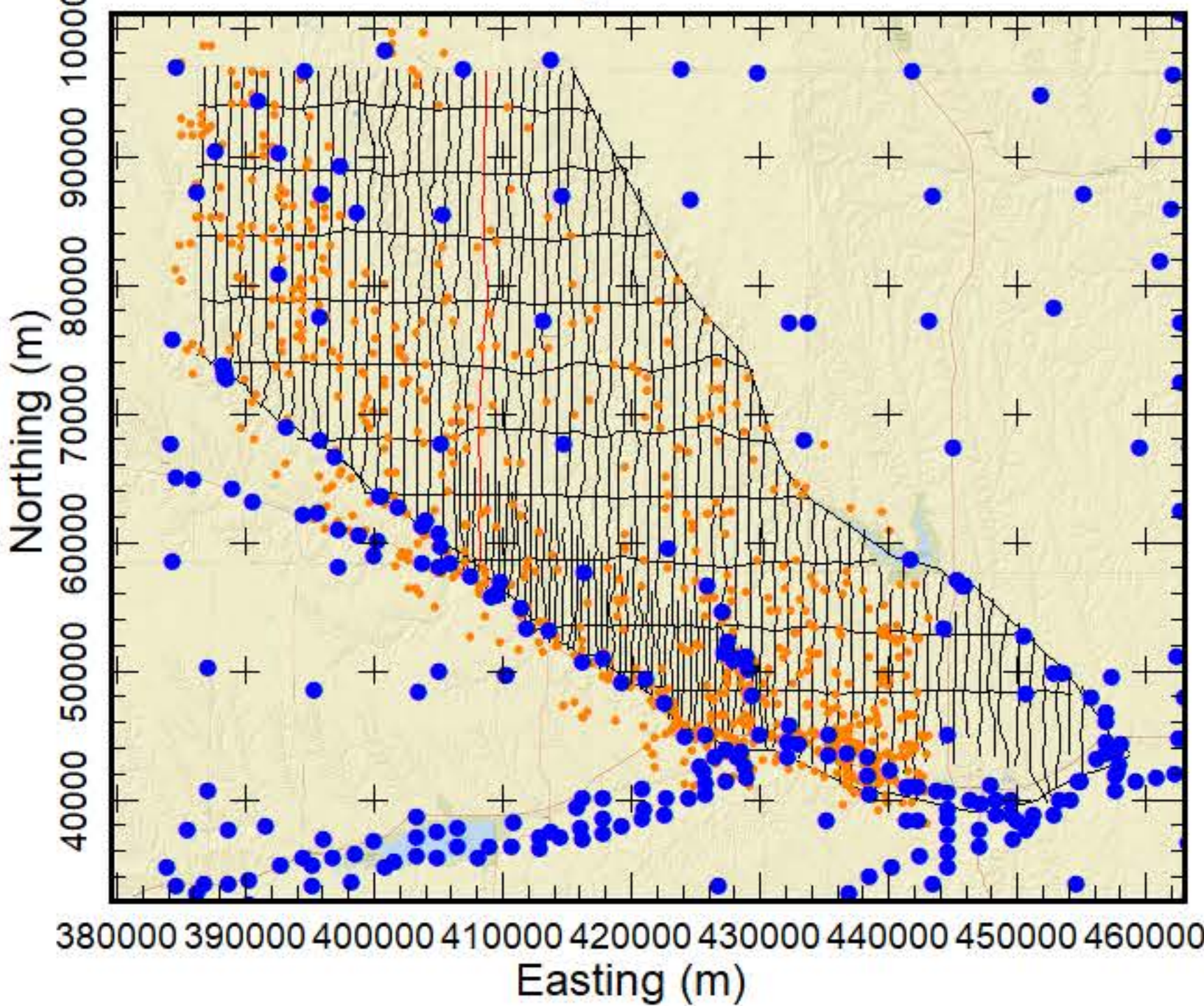




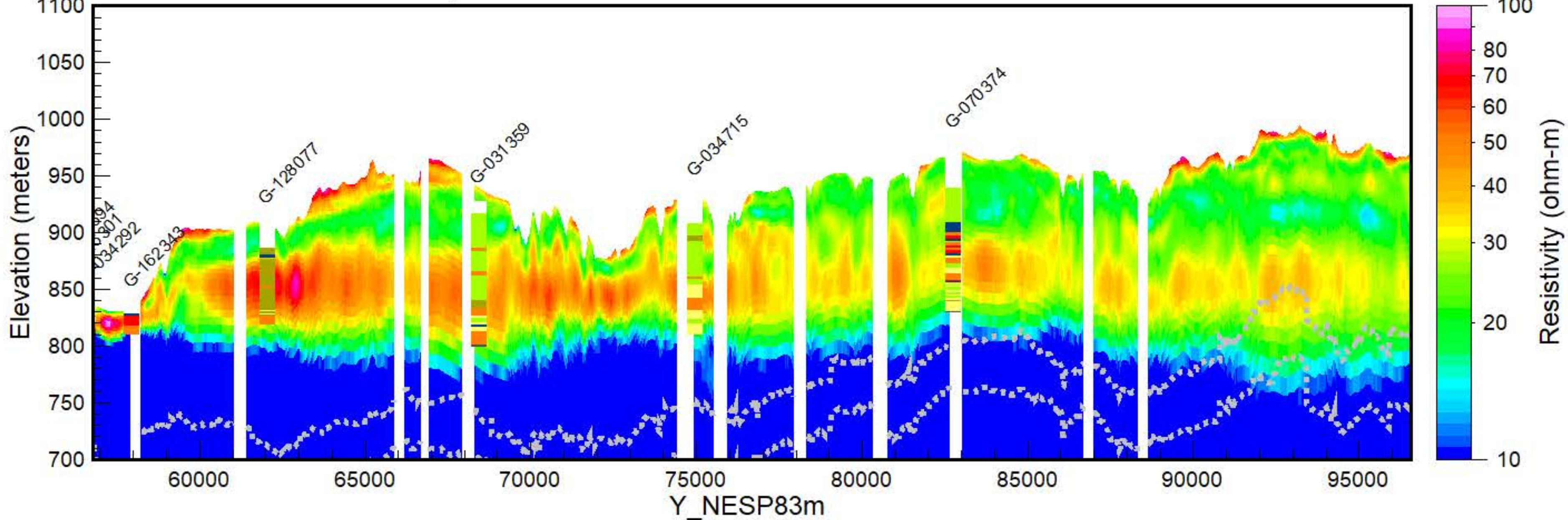
Flight Path Line L102301



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L102301



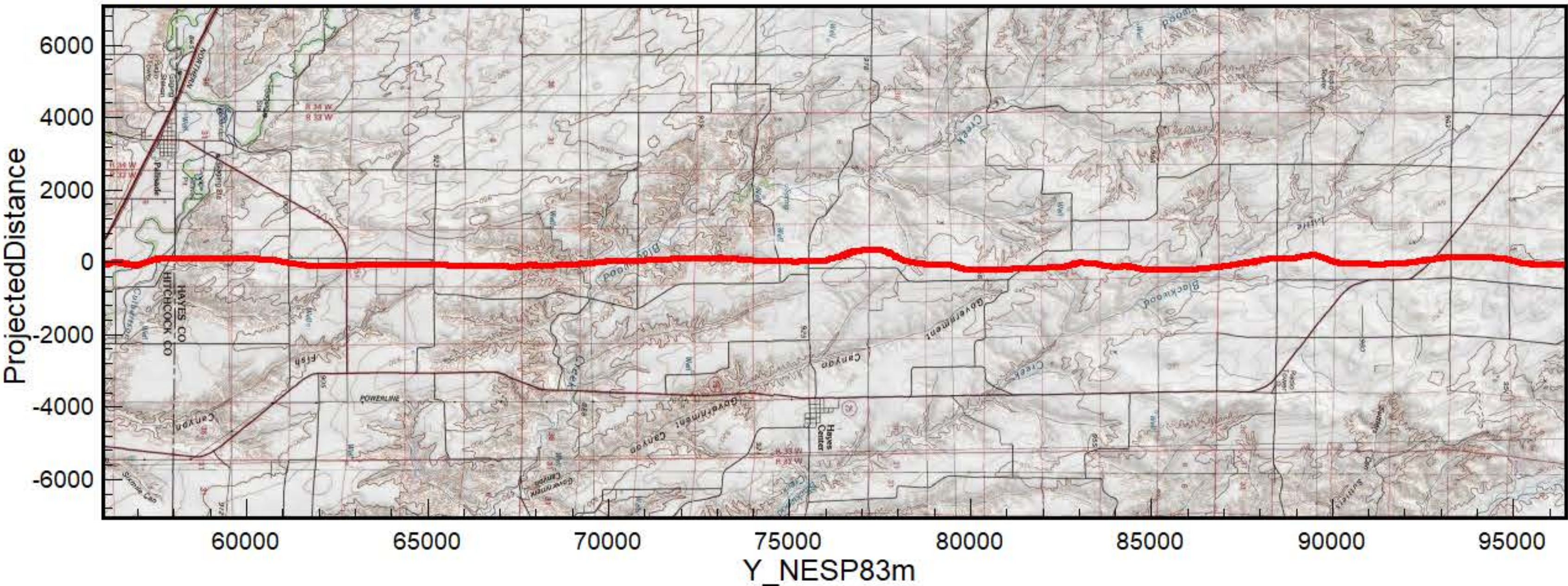
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Grave
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

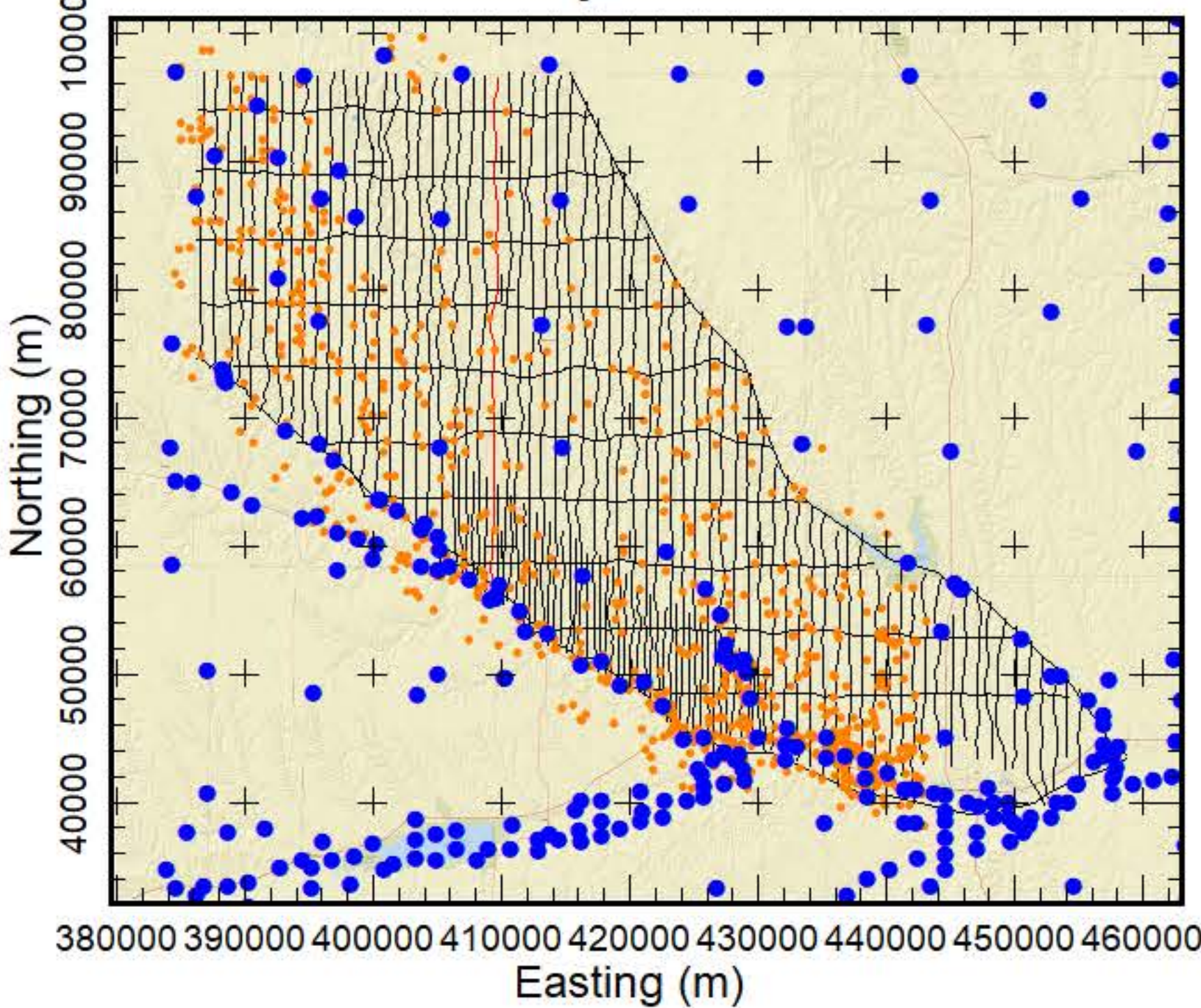




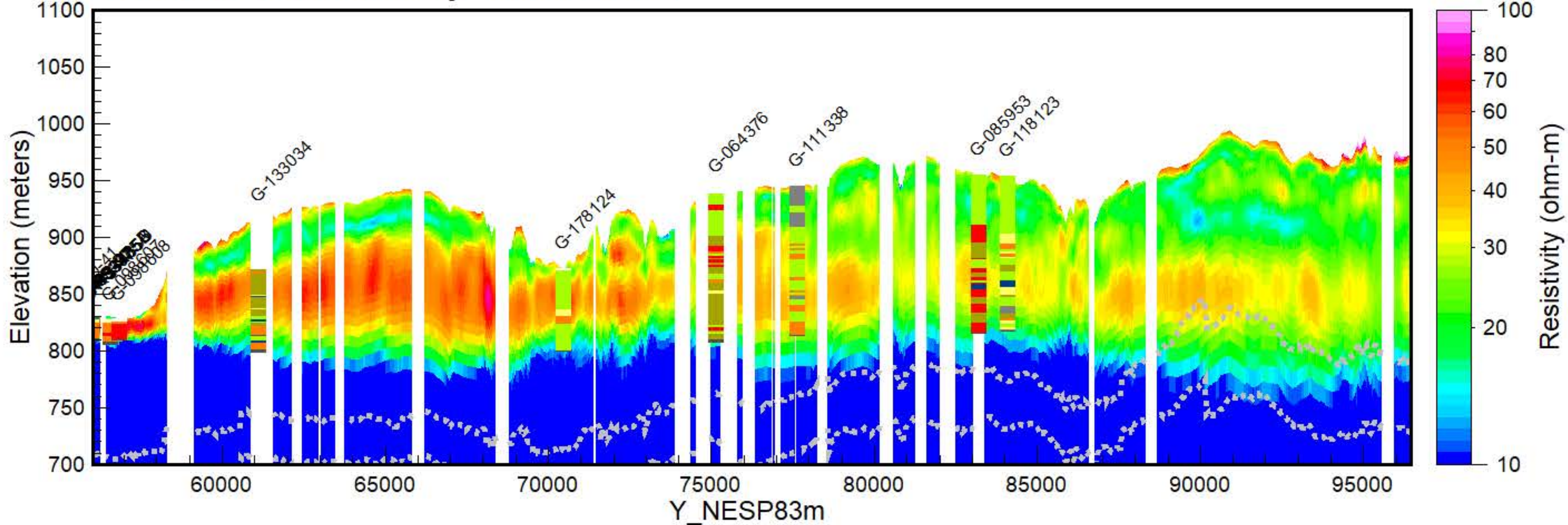
Flight Path Line L102401



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L102401



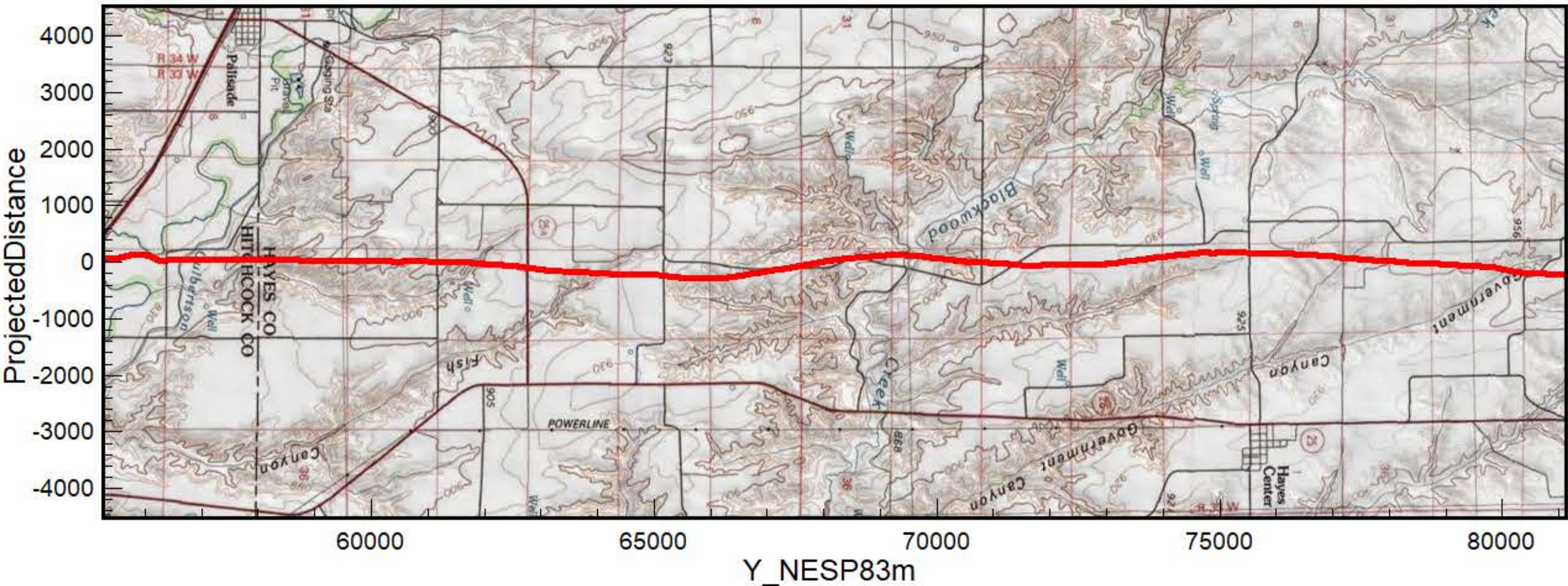
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Grave
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

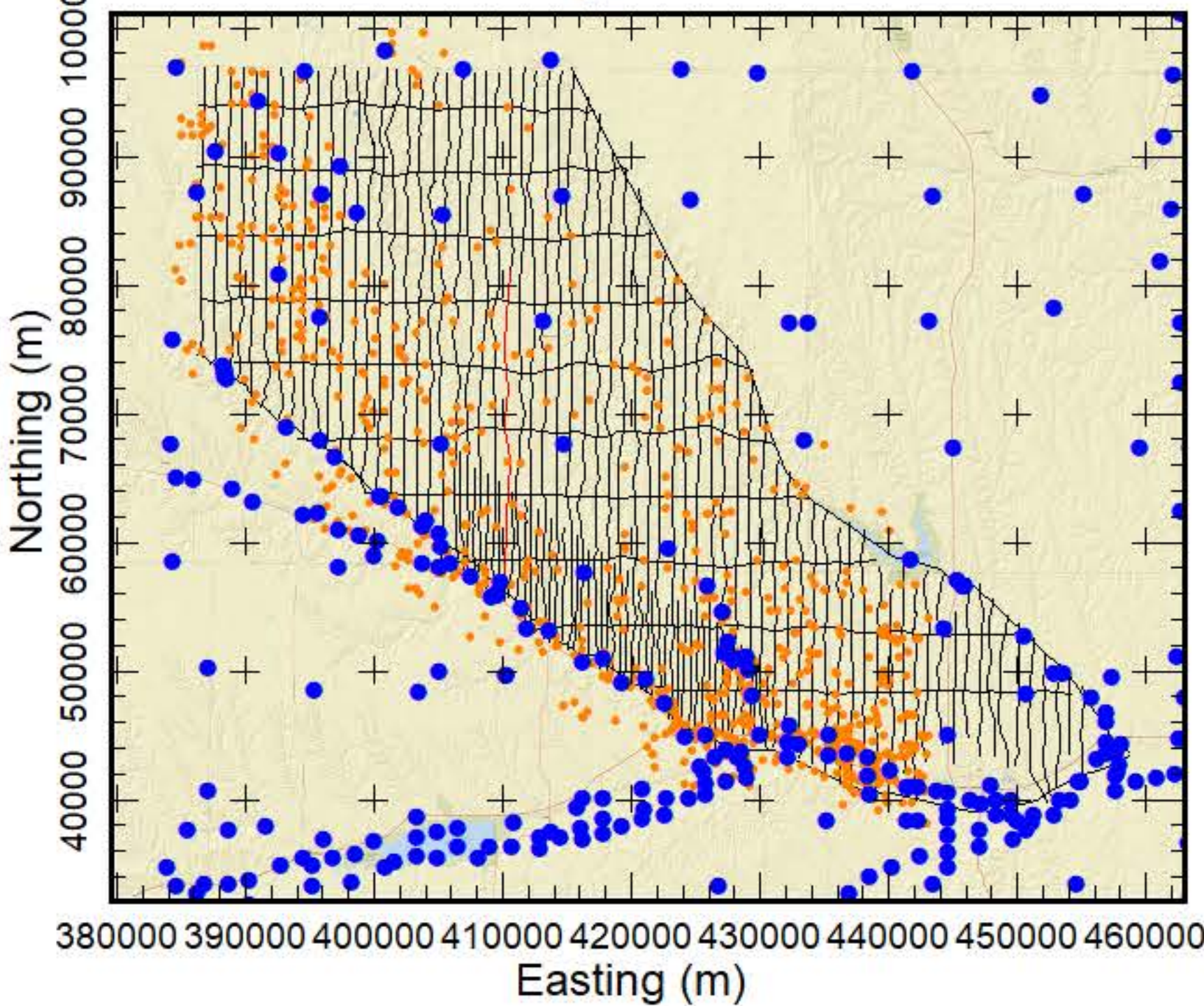




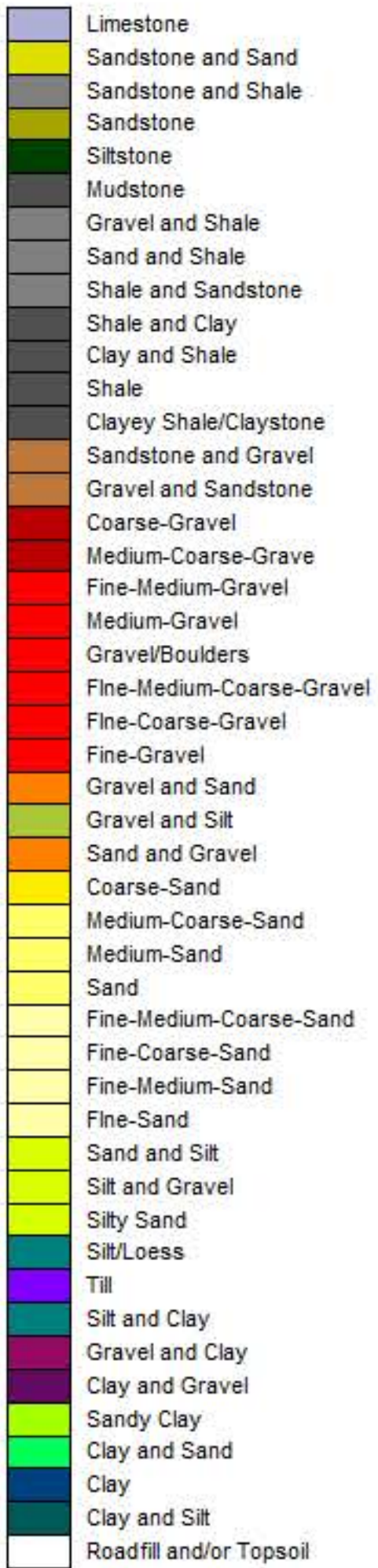
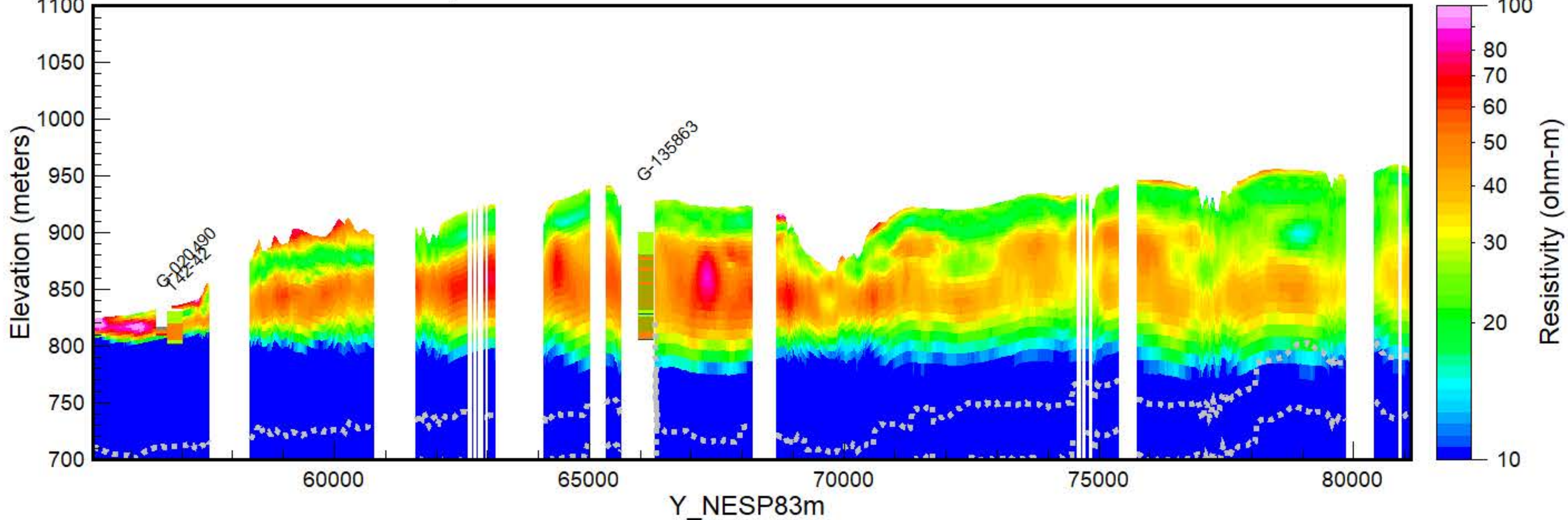
Flight Path Line L102501



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L102501

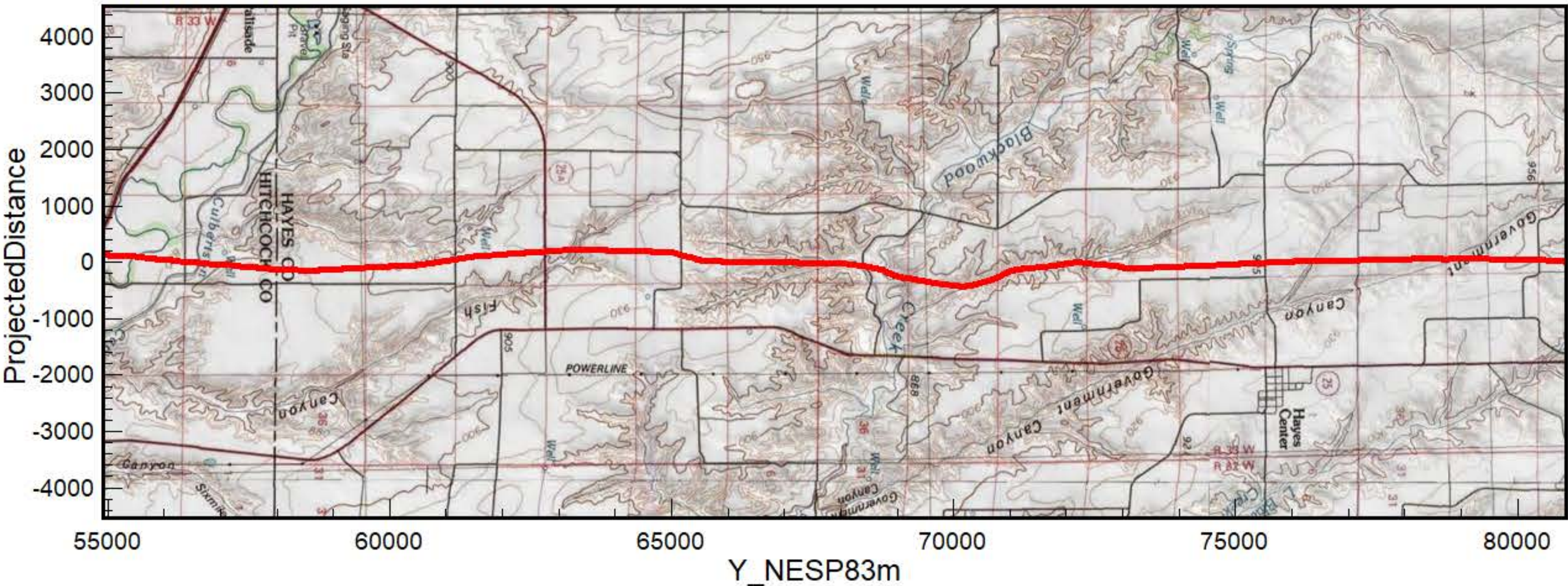


Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

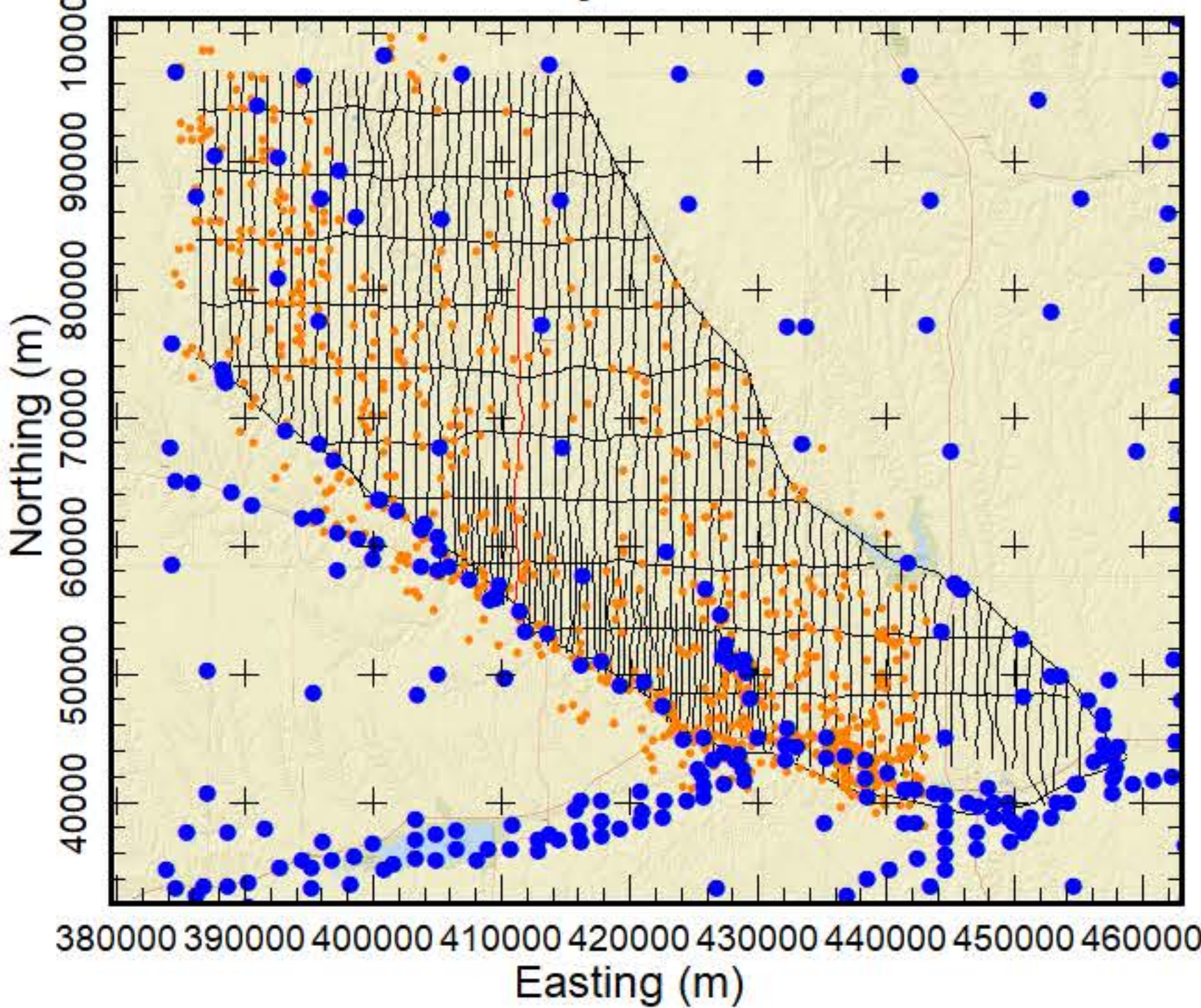




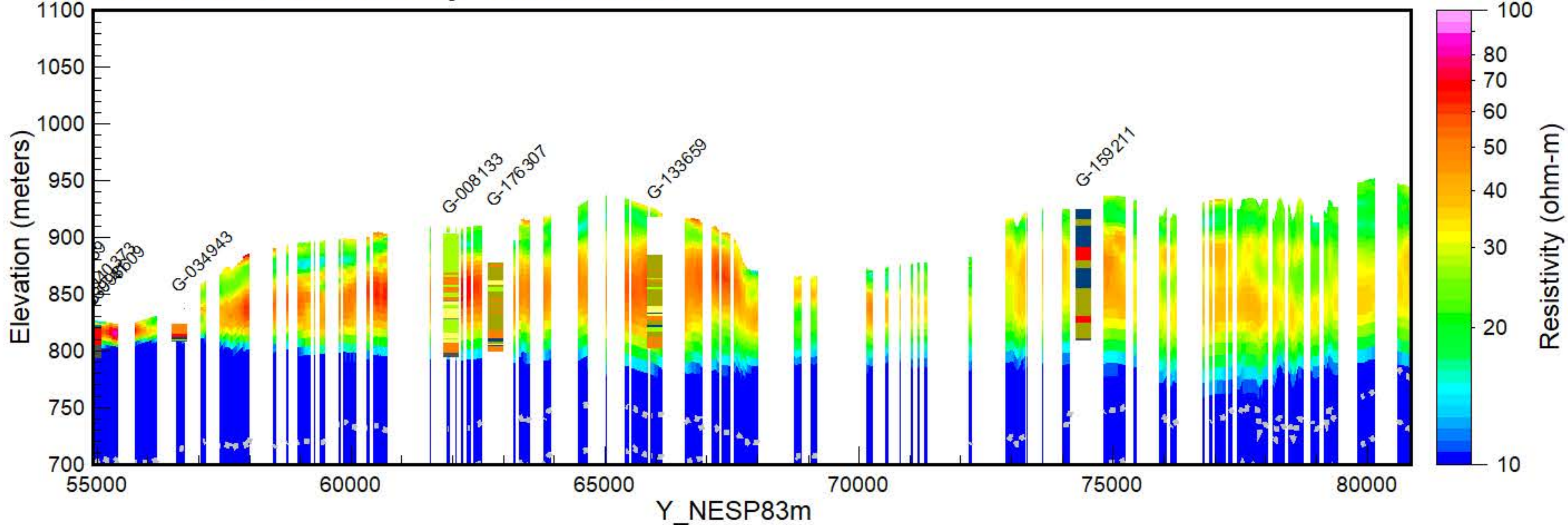
Flight Path Line L102601



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L102601



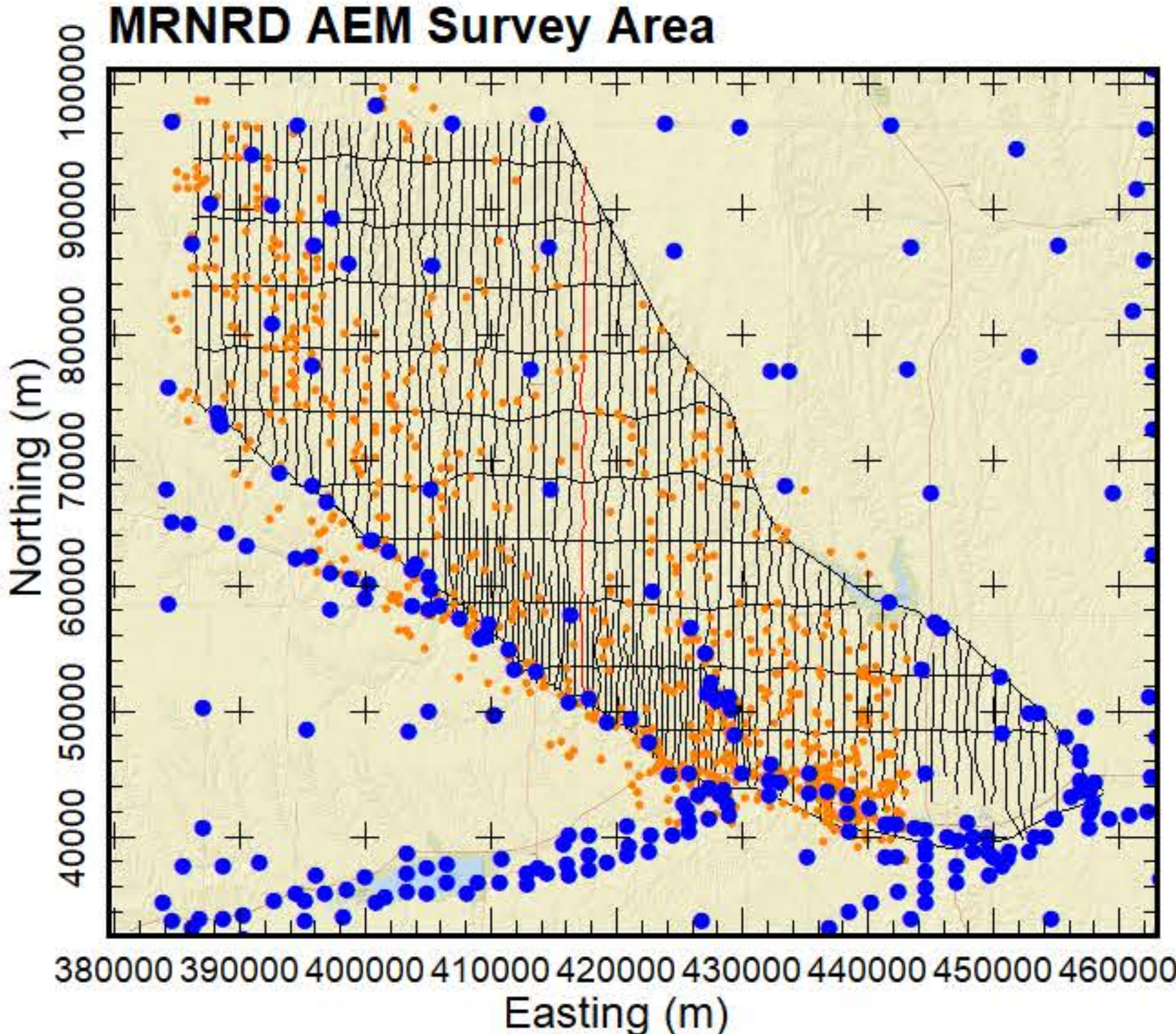
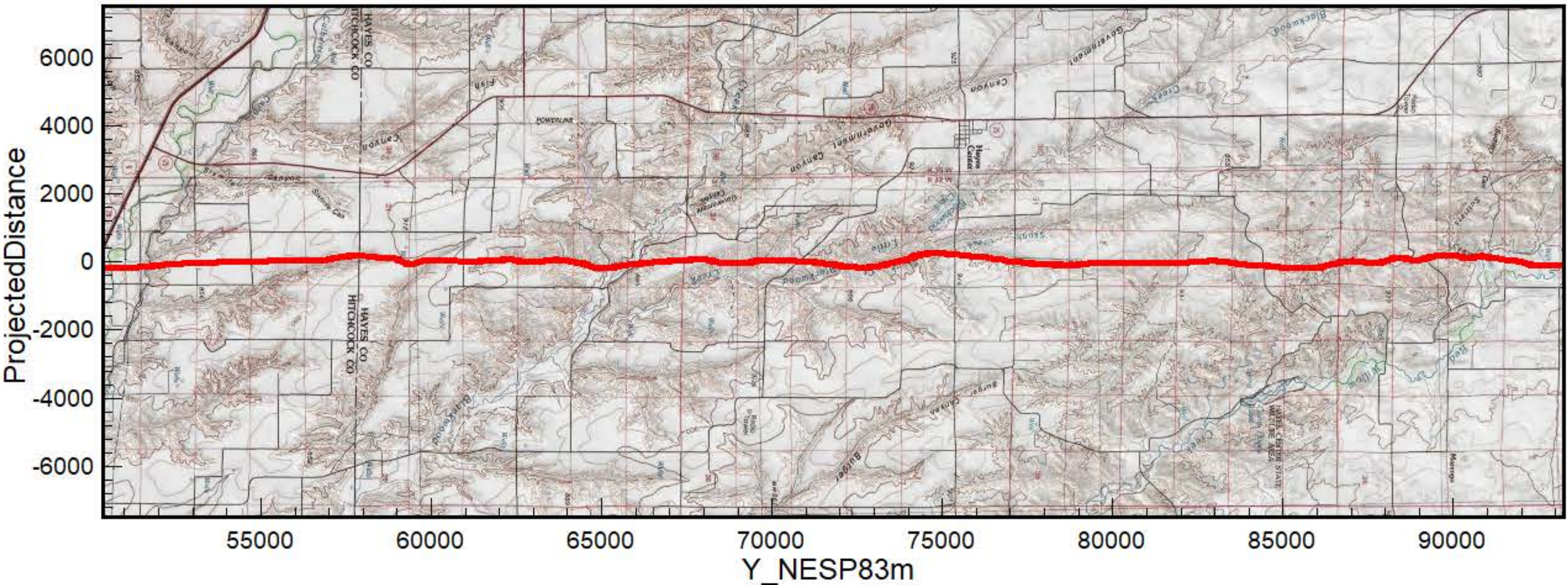
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Grave
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

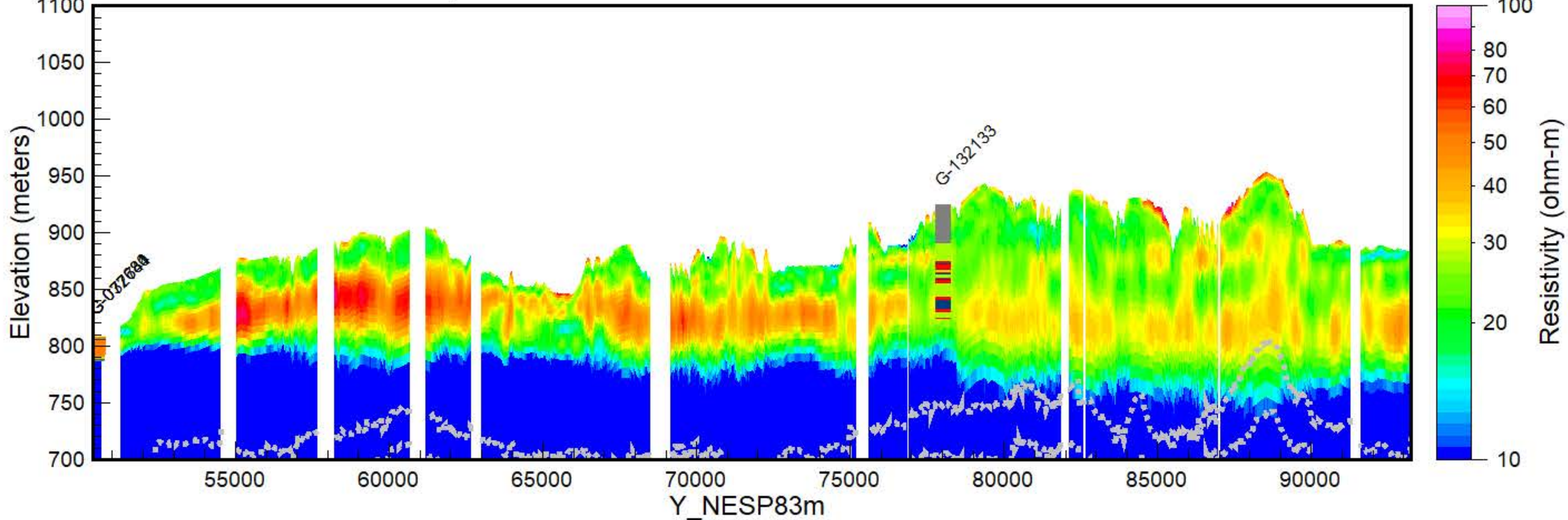




Flight Path Line L103202



AEM Inversion Resistivity Line L103202



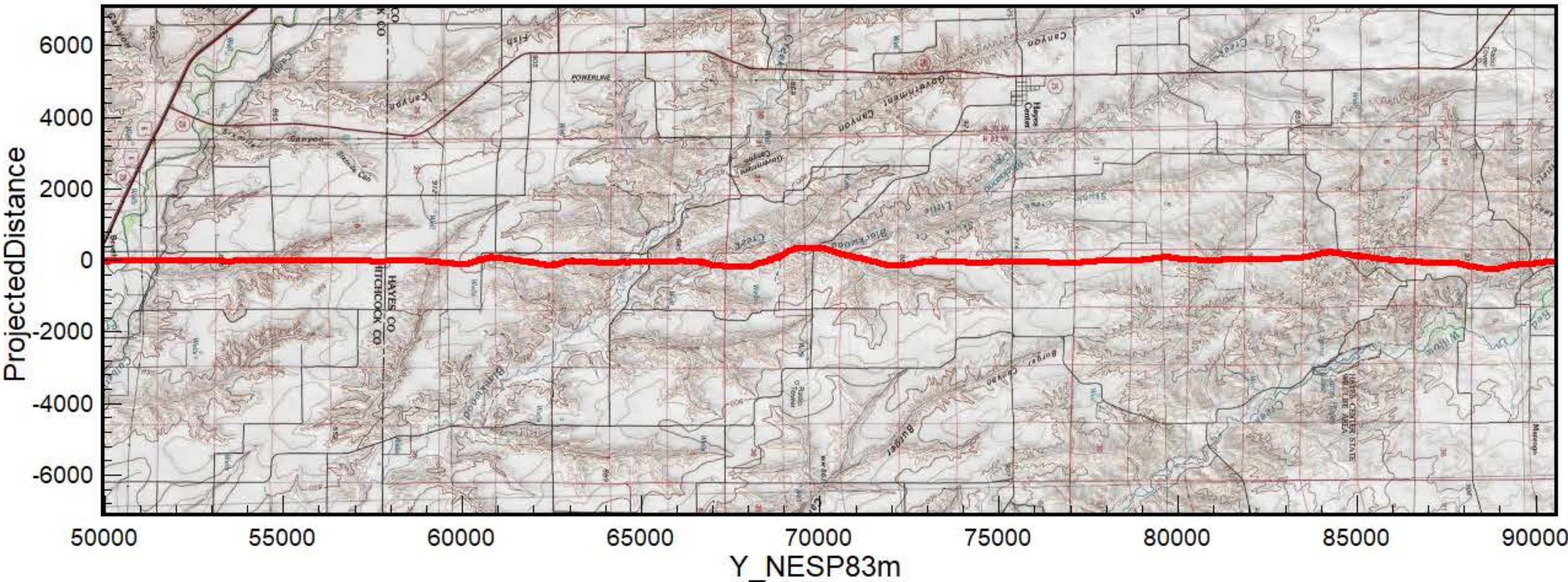
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Grave
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

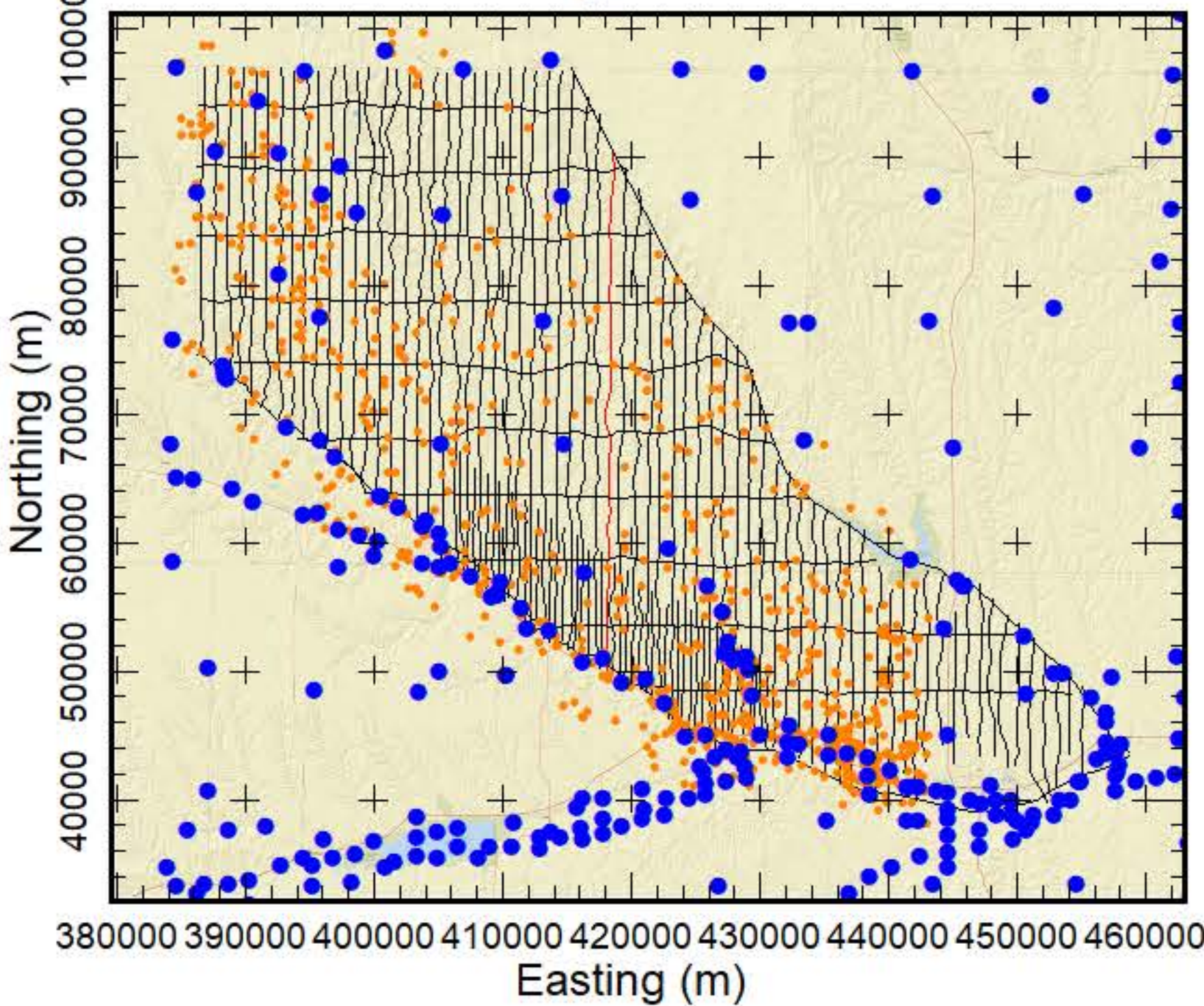




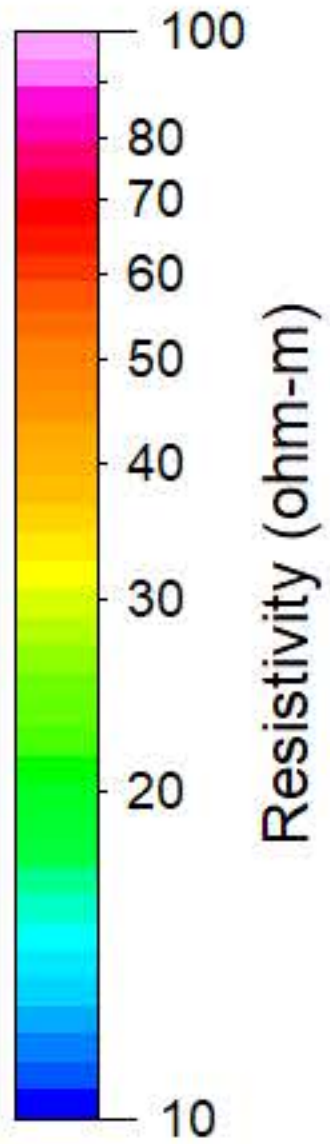
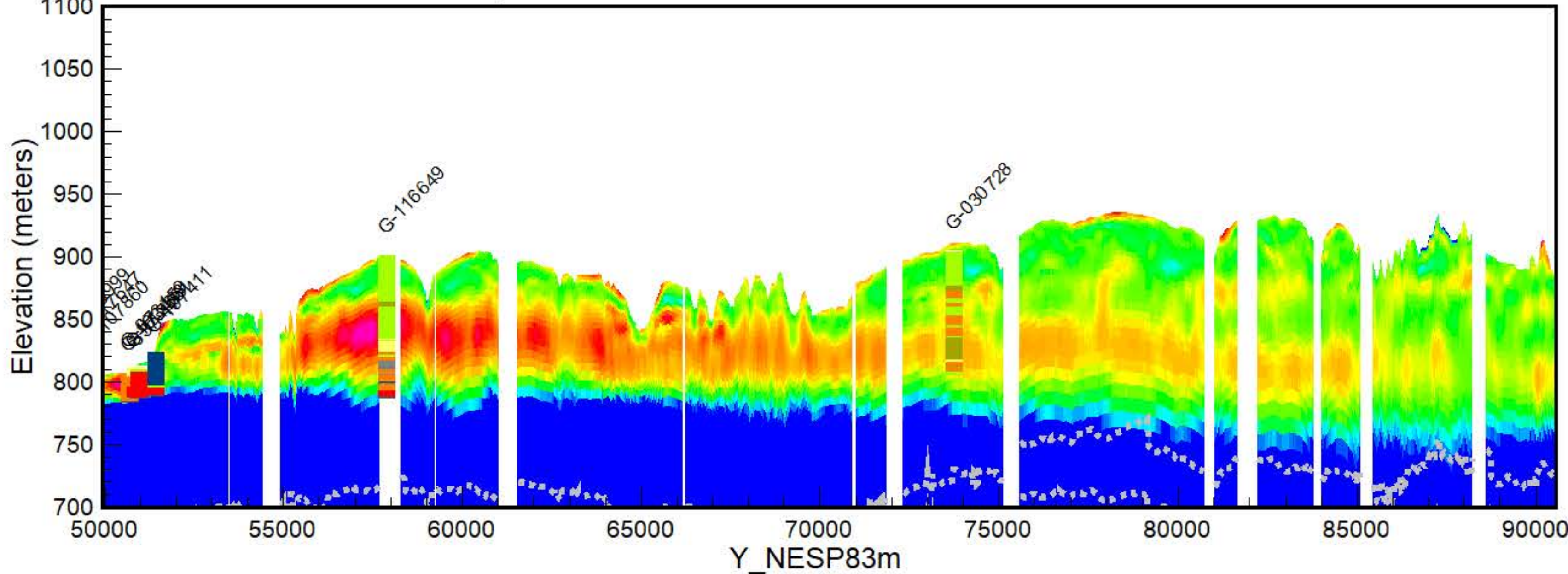
Flight Path Line L103301



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L103301



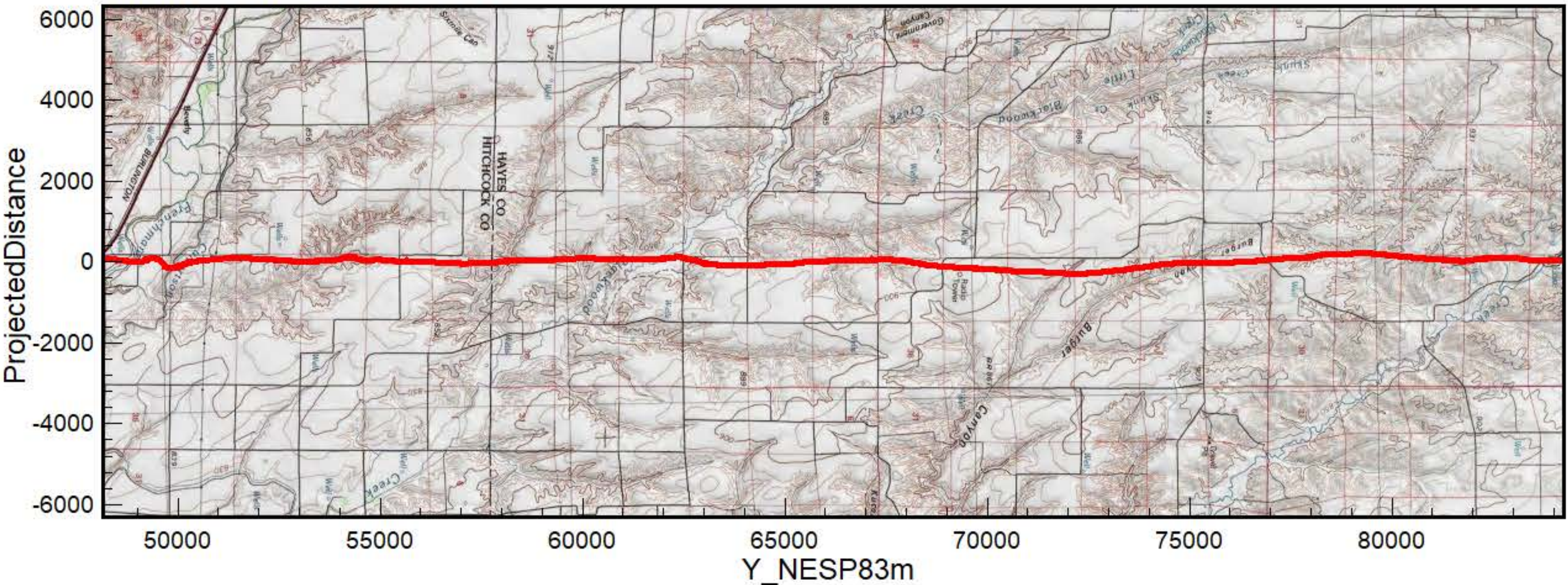
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Grave
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

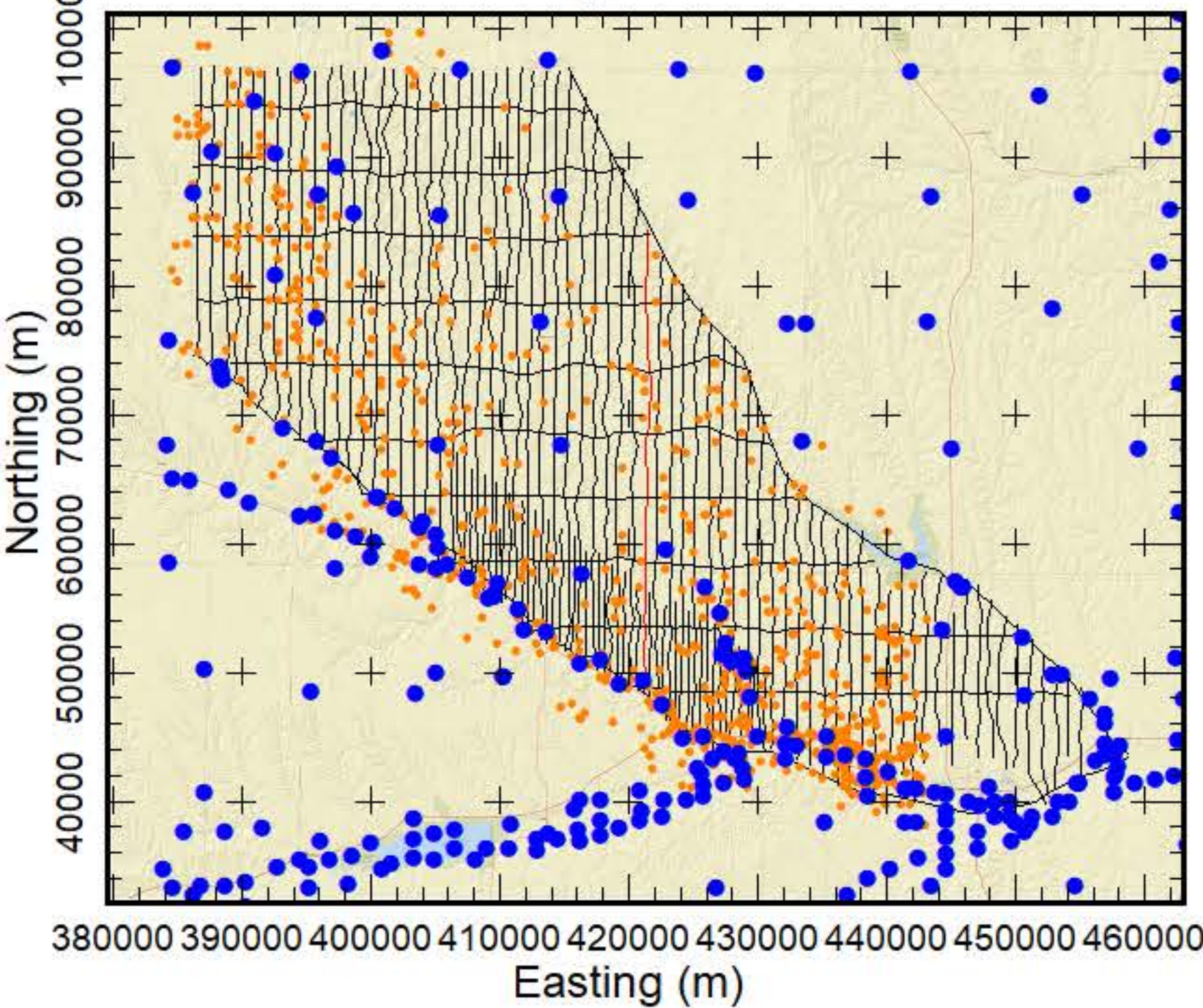




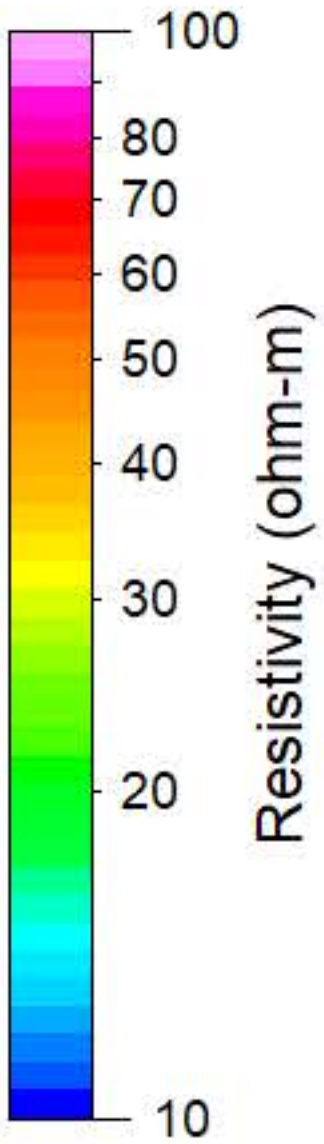
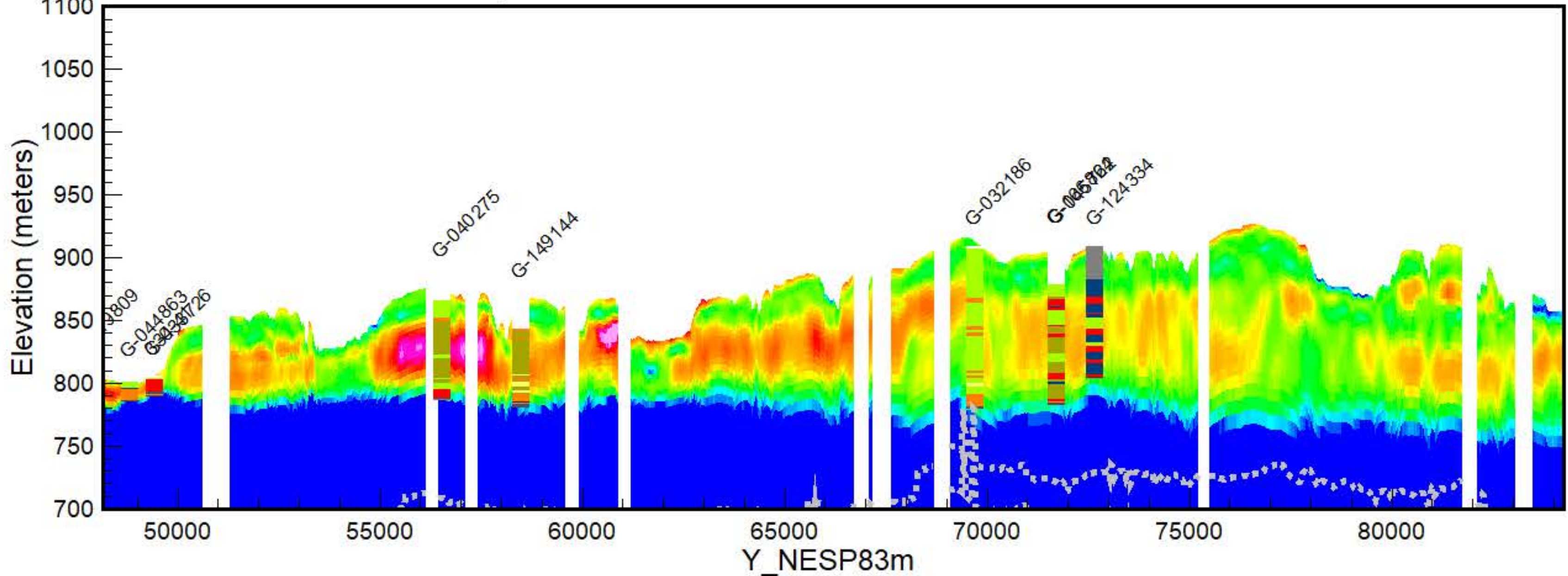
Flight Path Line L103601



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L103601



- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020.

The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection.

The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020.

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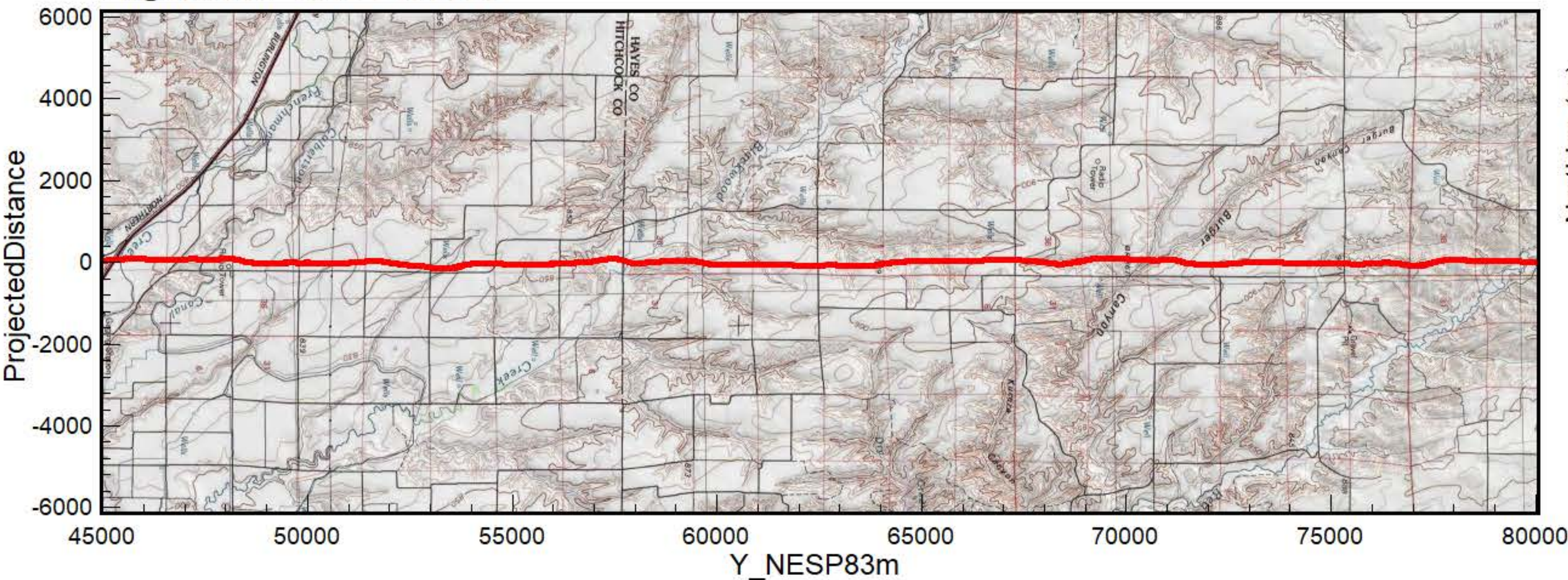
Prepared for the MRNRD by Aqua Geo Frameworks, LLC.

The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

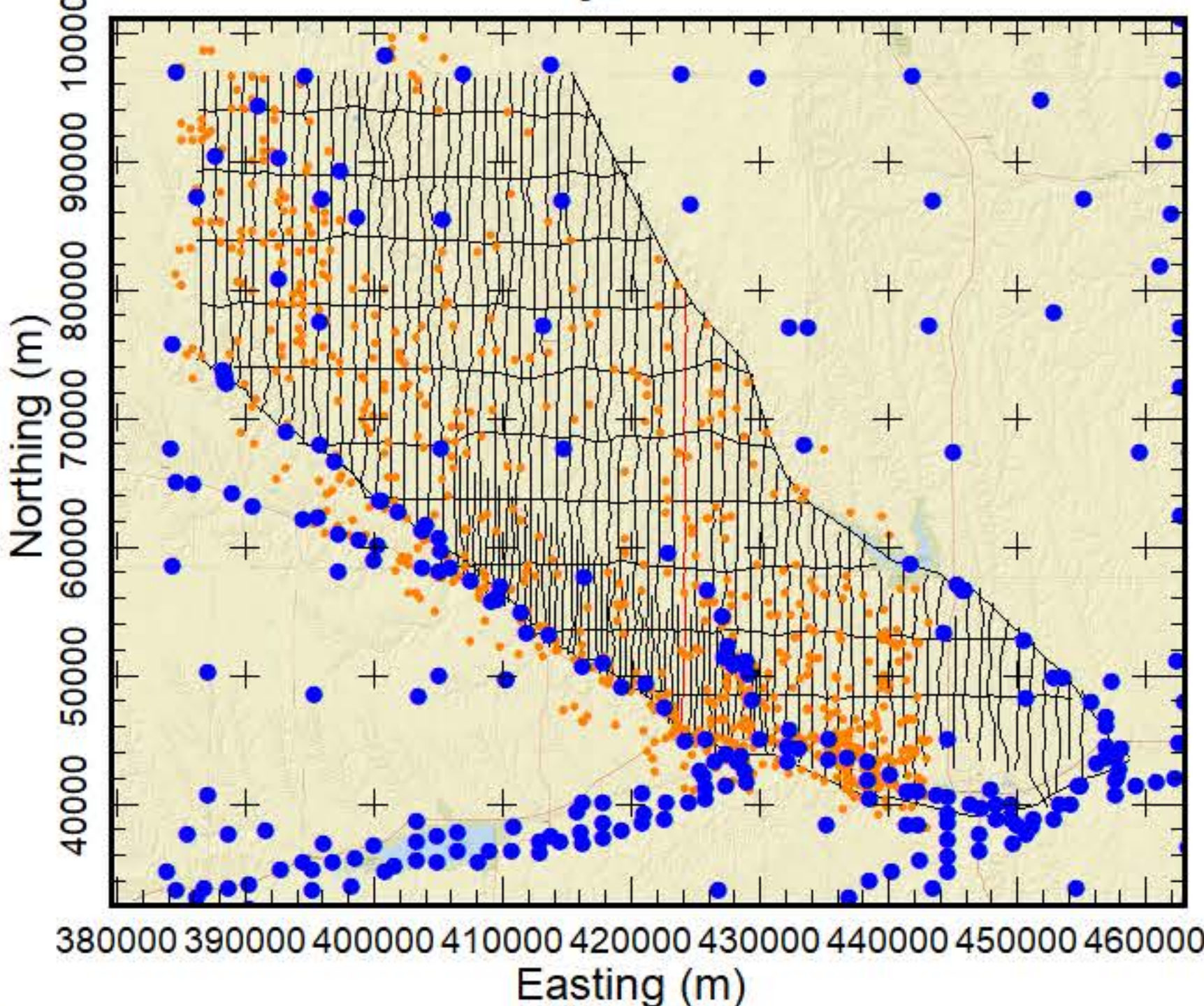




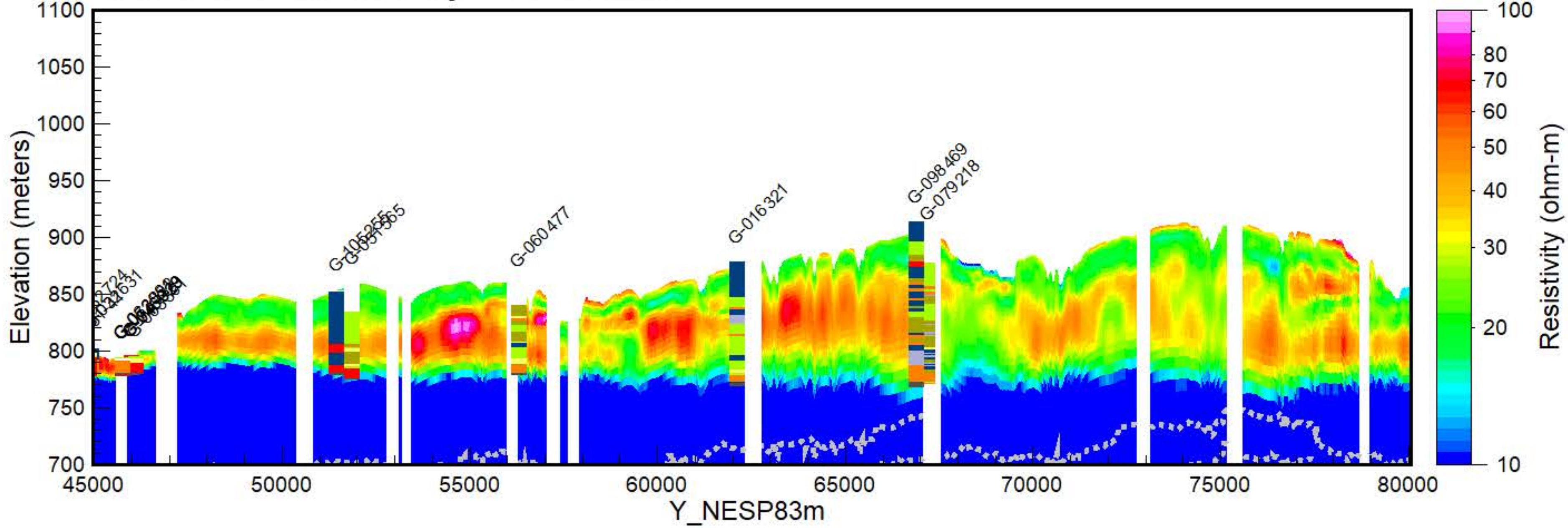
Flight Path Line L103901



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L103901



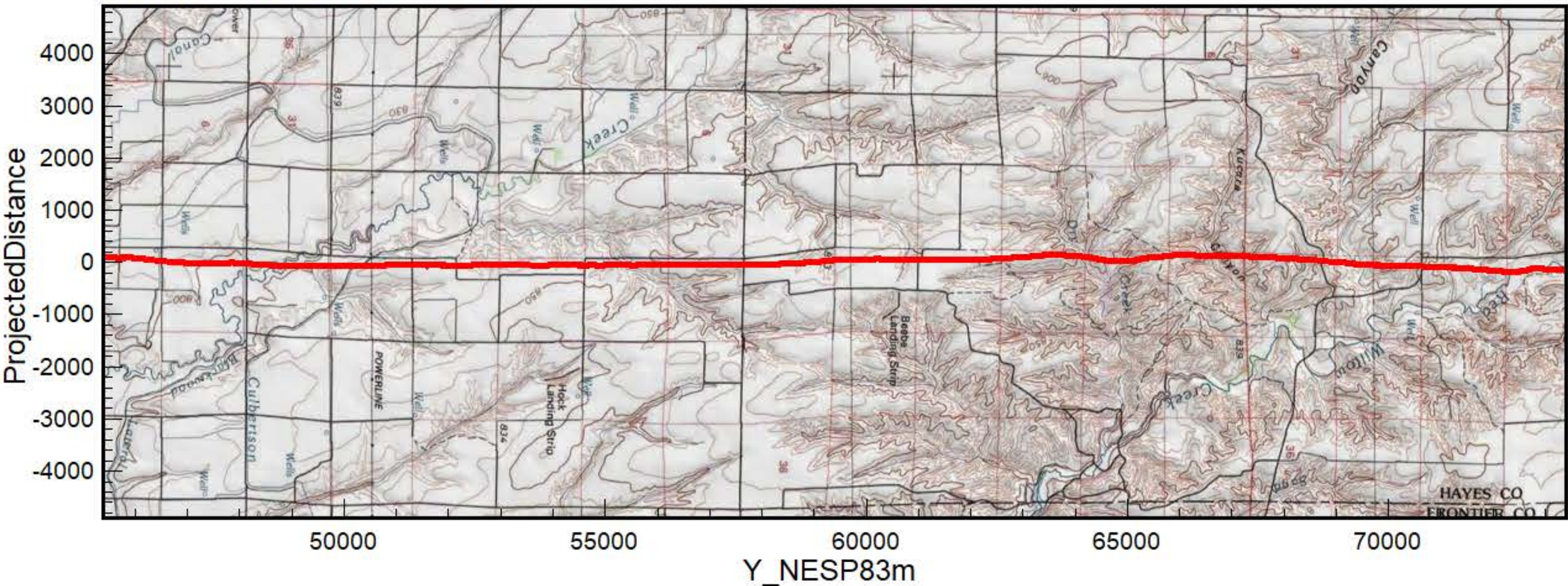
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Grave
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

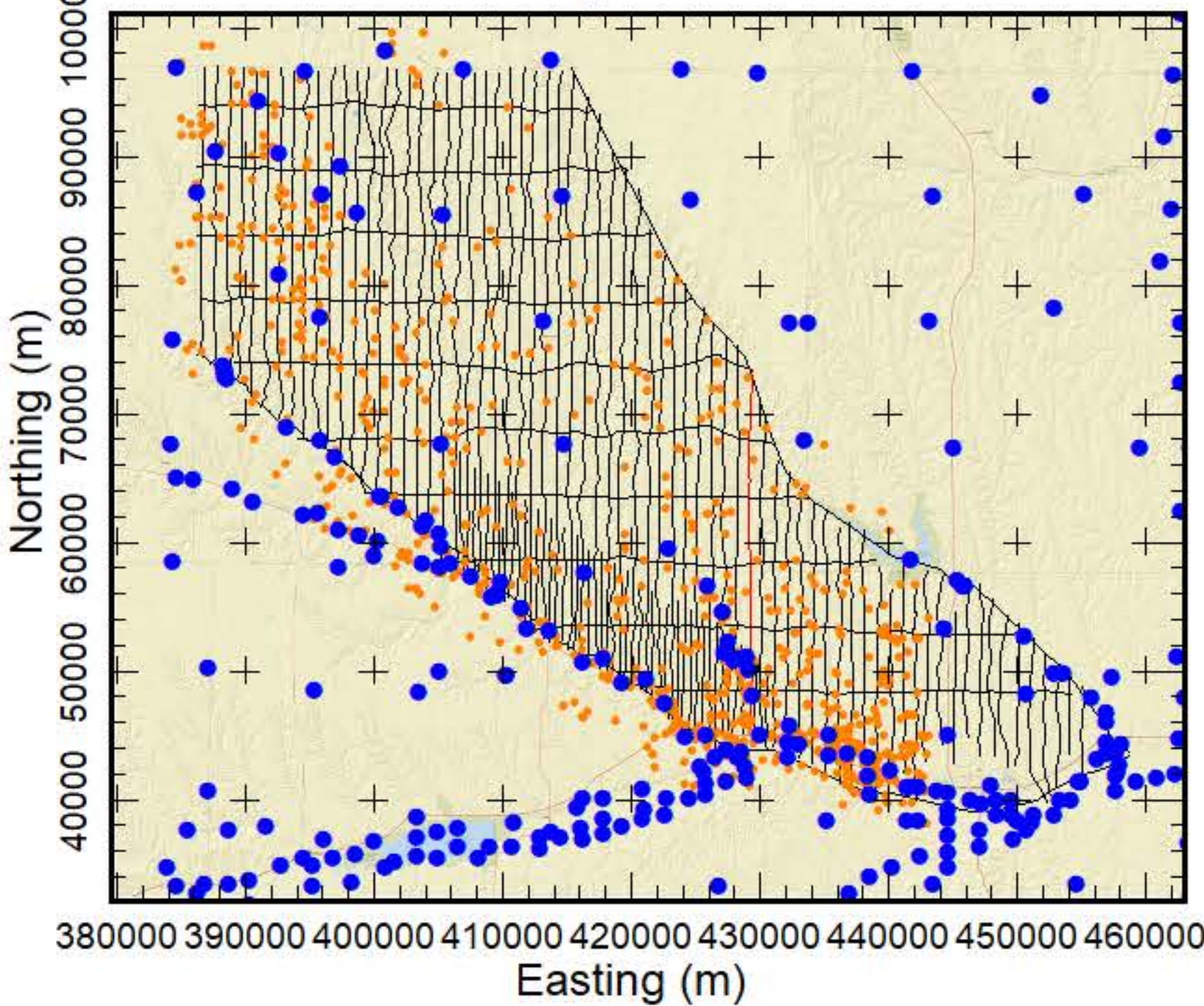




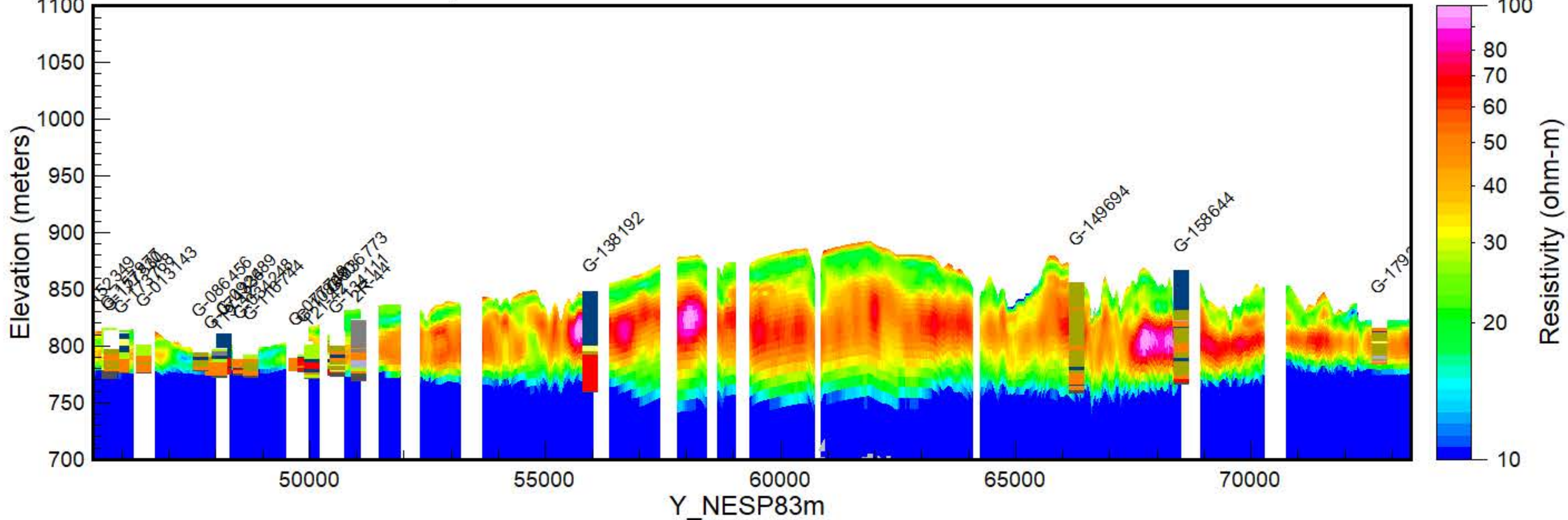
Flight Path Line L104401



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L104401



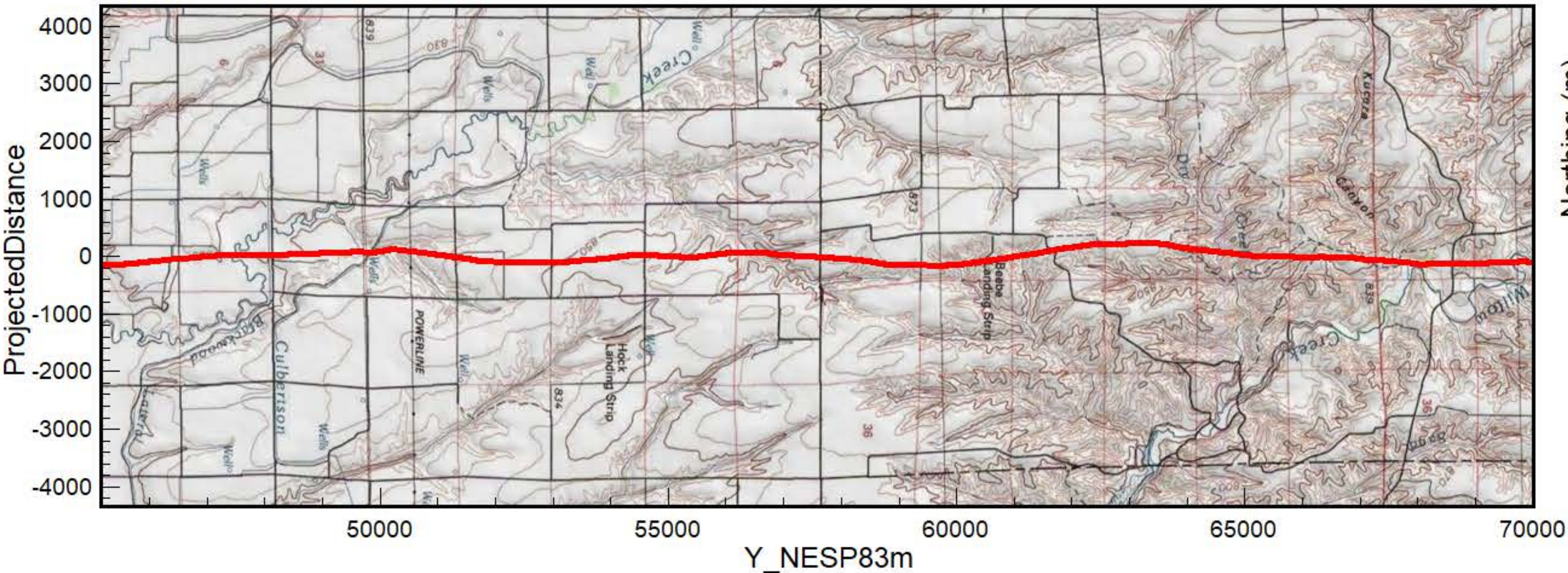
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Grave
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

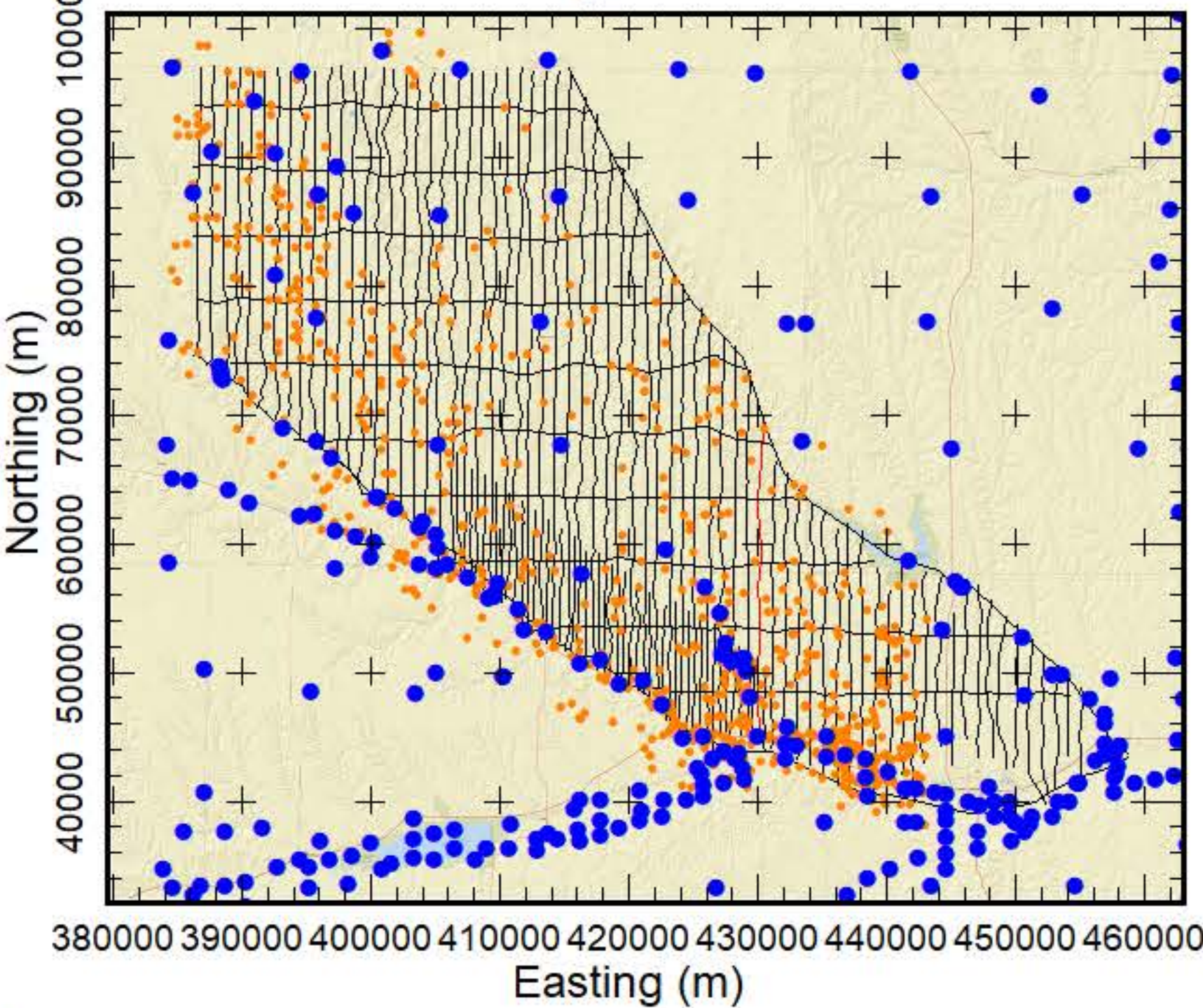




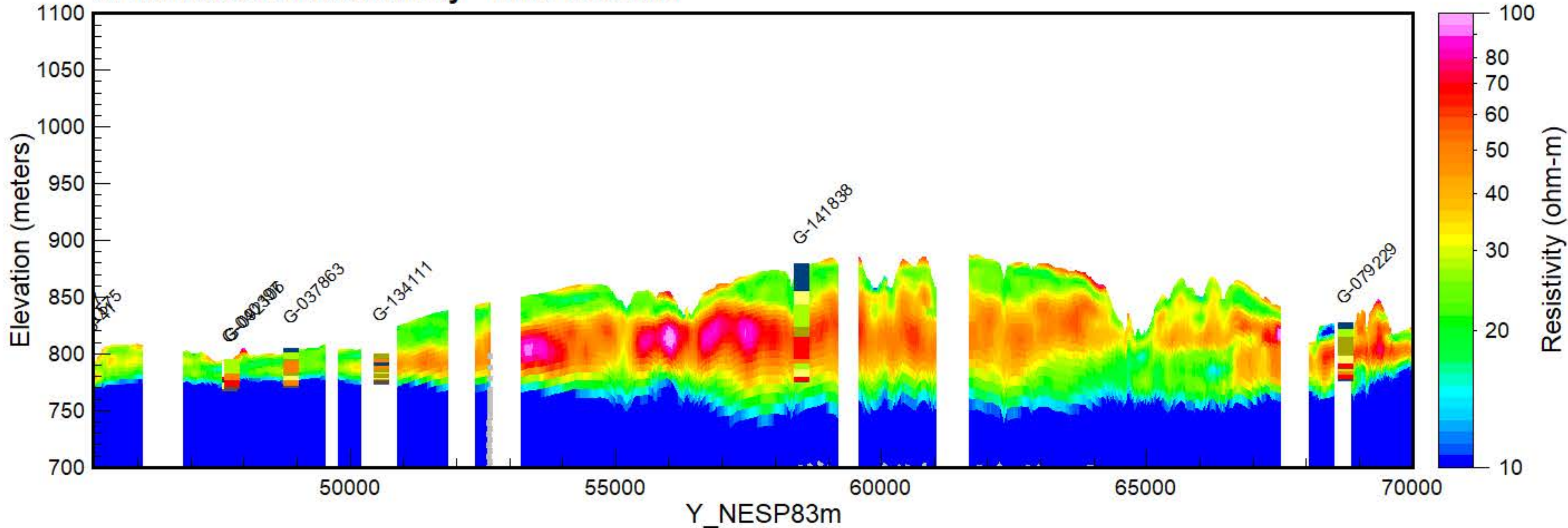
Flight Path Line L104501



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L104501



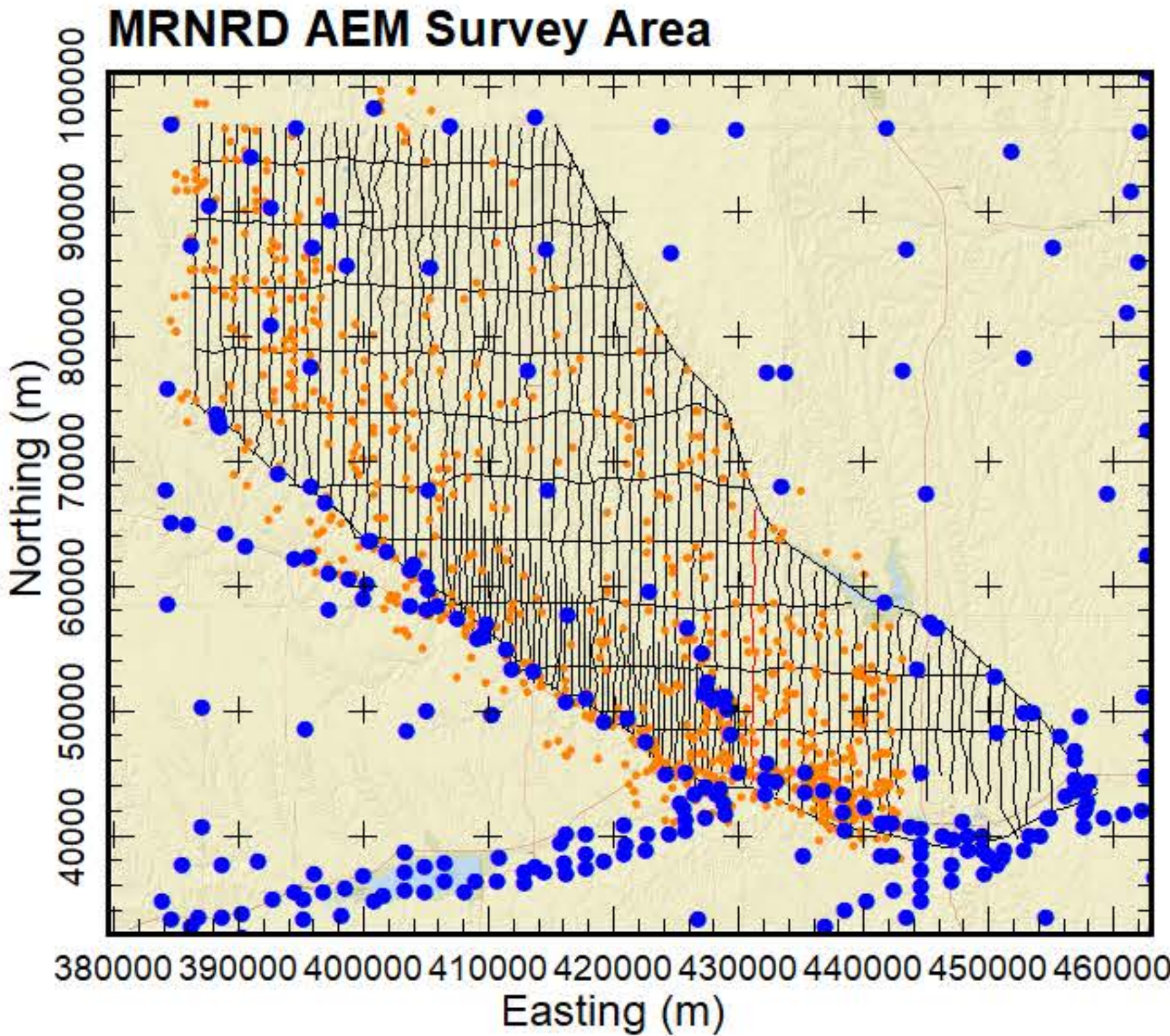
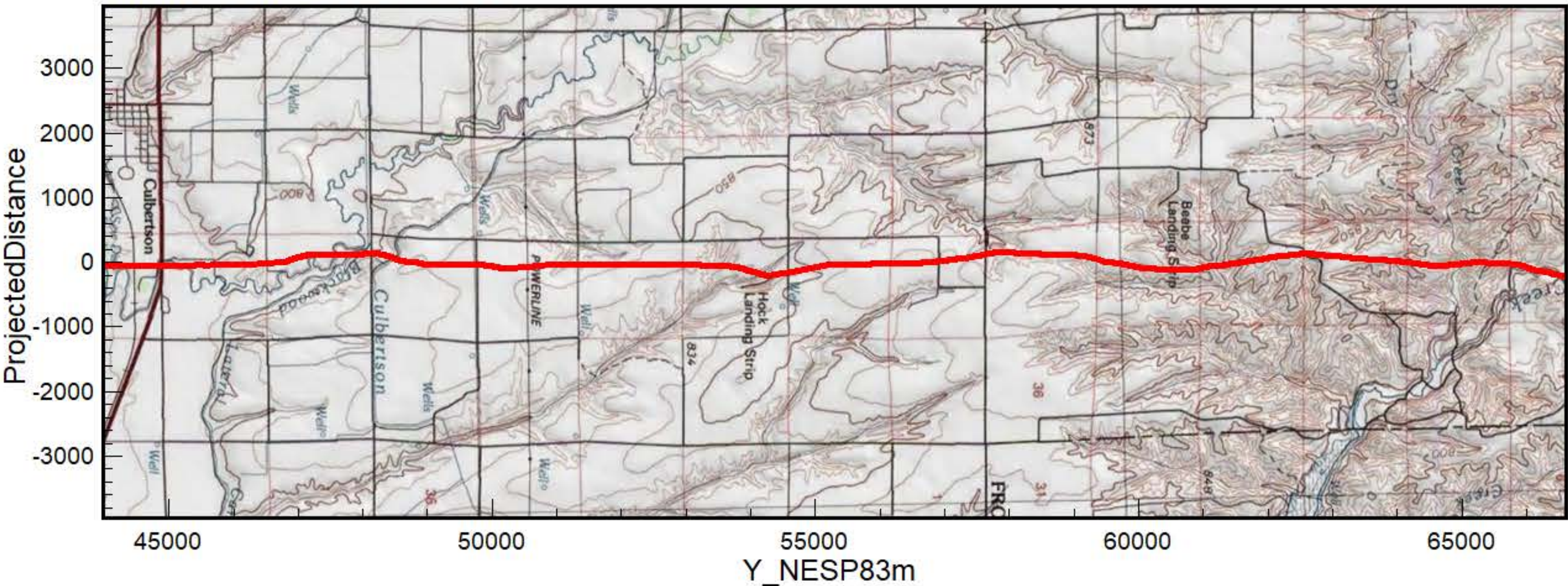
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

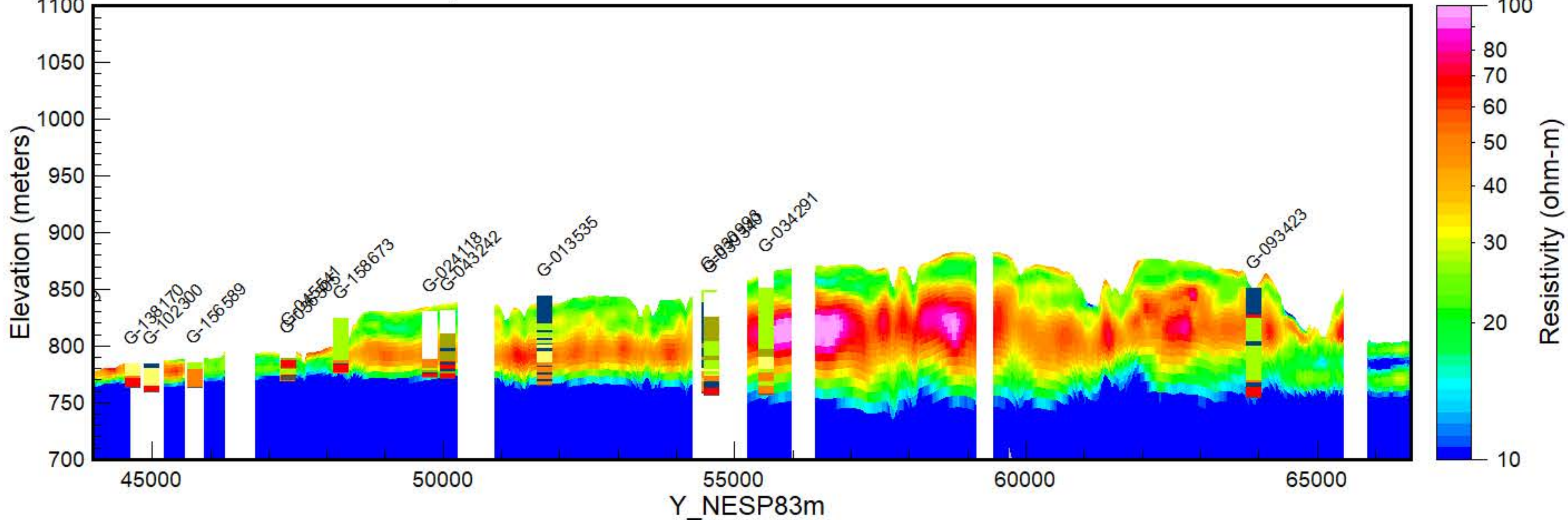




Flight Path Line L104601



AEM Inversion Resistivity Line L104601



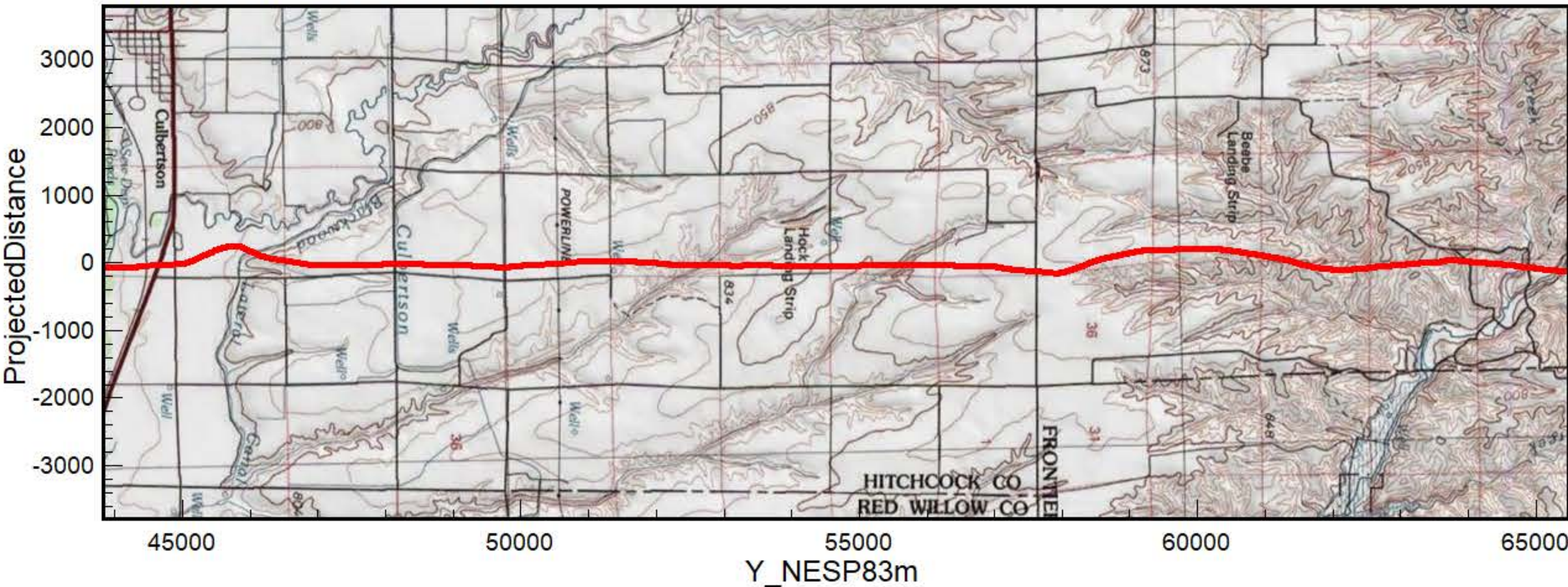
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Grave
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

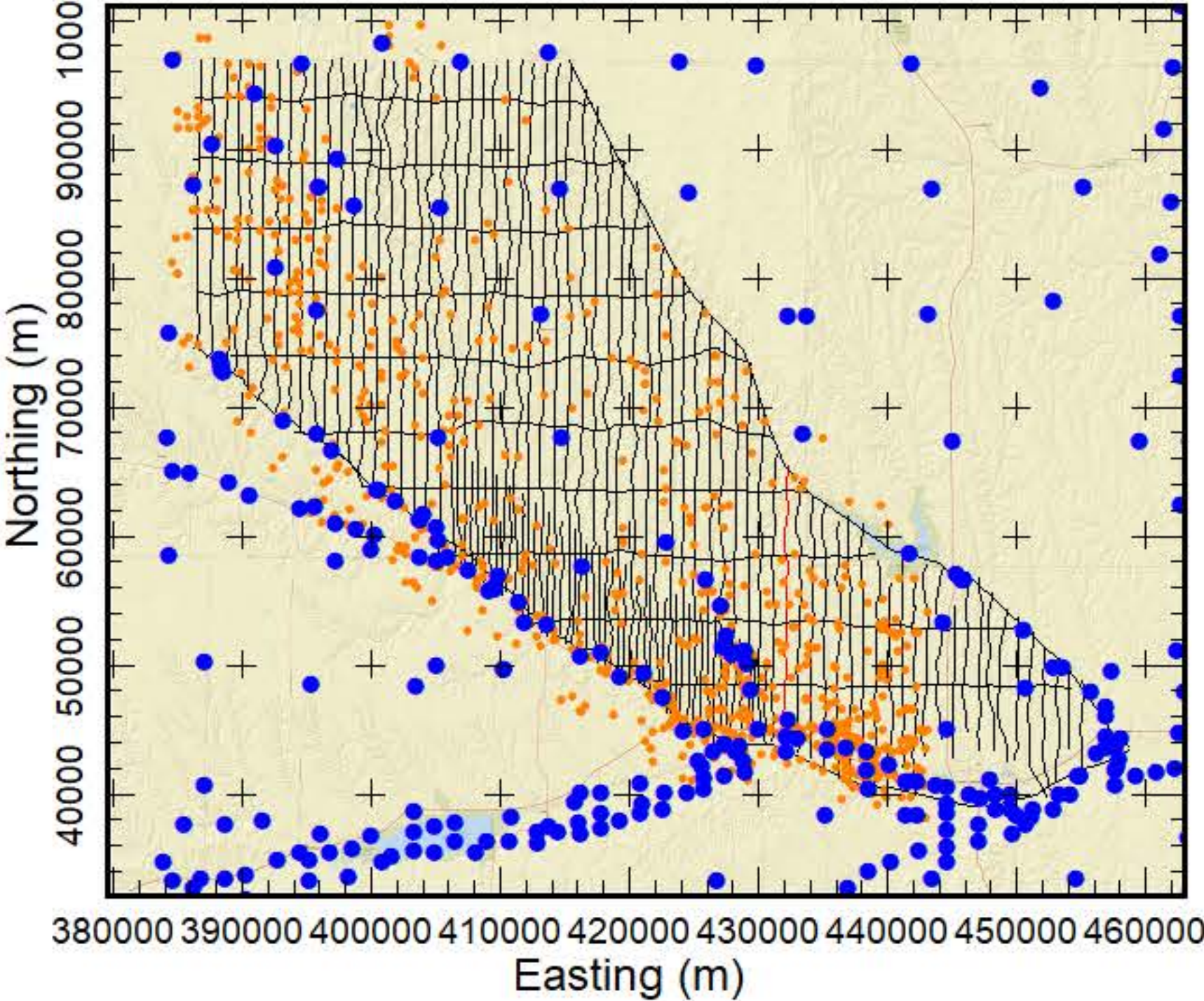




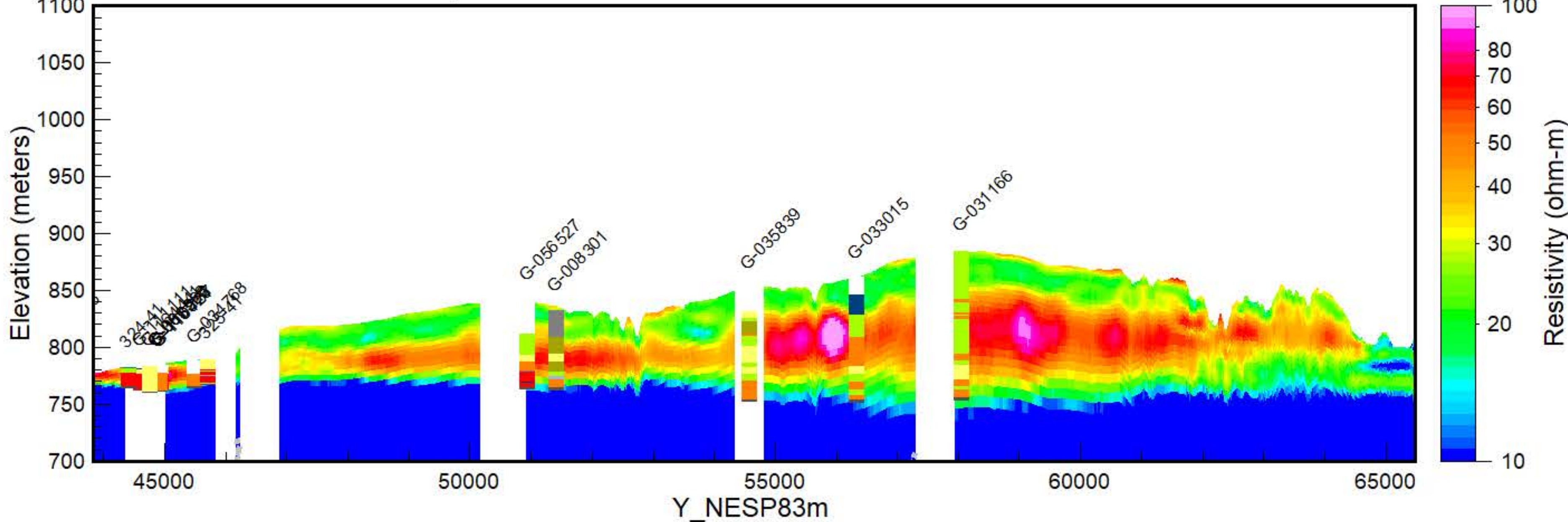
Flight Path Line L104701



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L104701



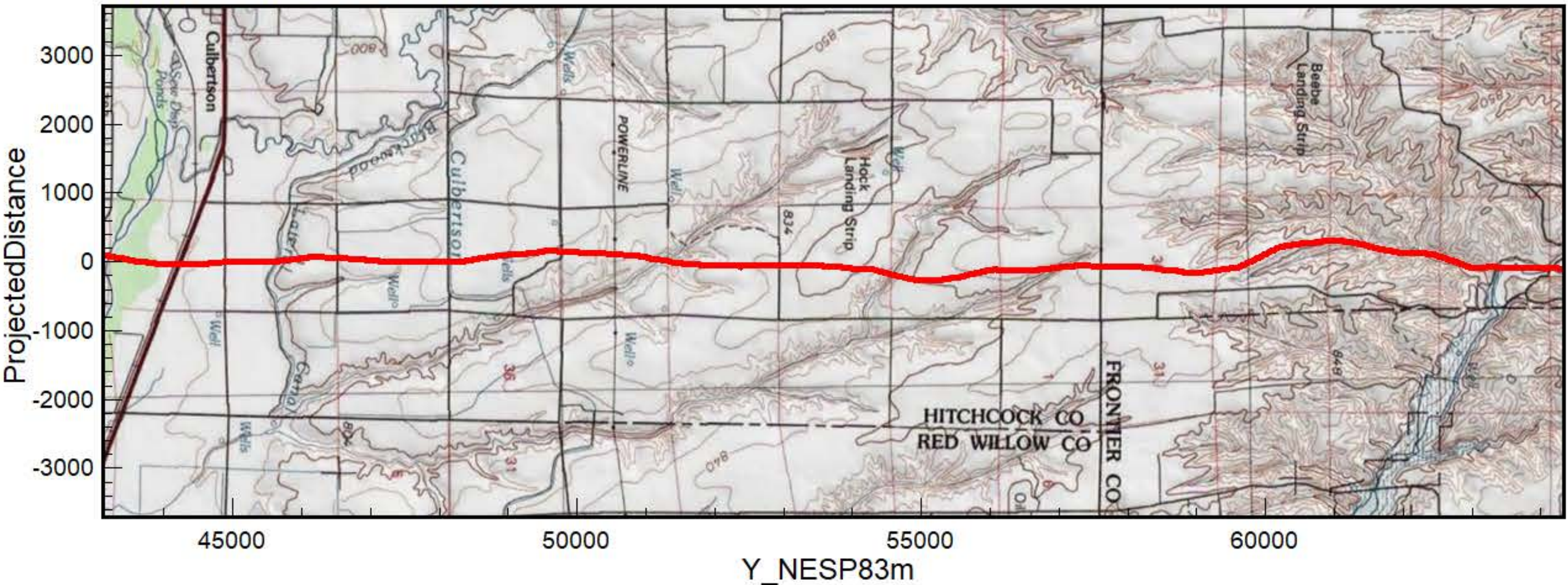
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

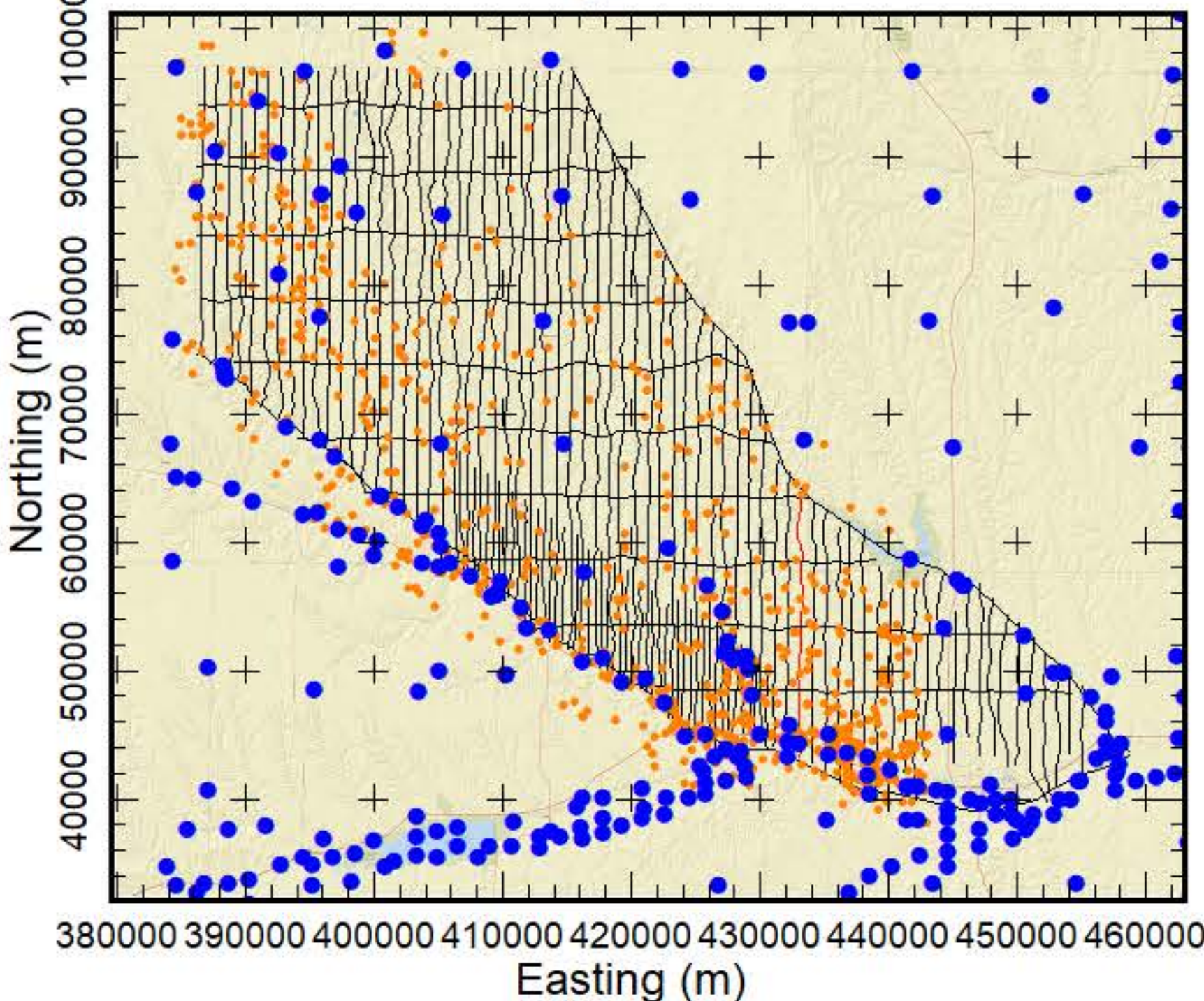




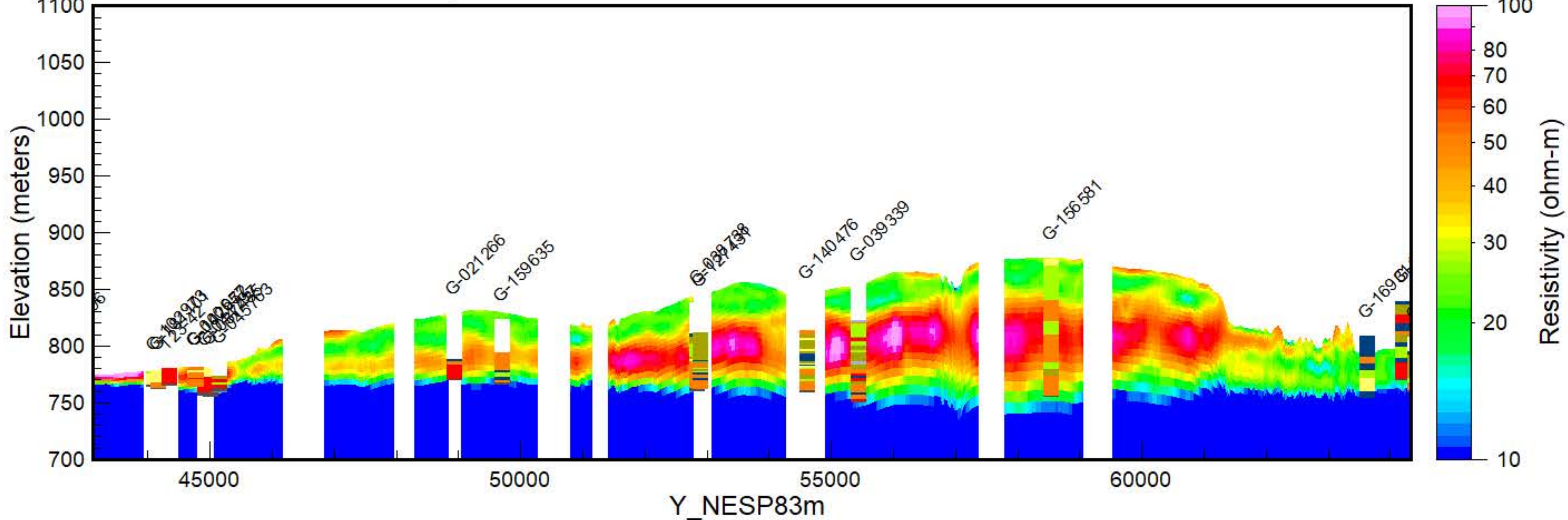
Flight Path Line L104801



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L104801



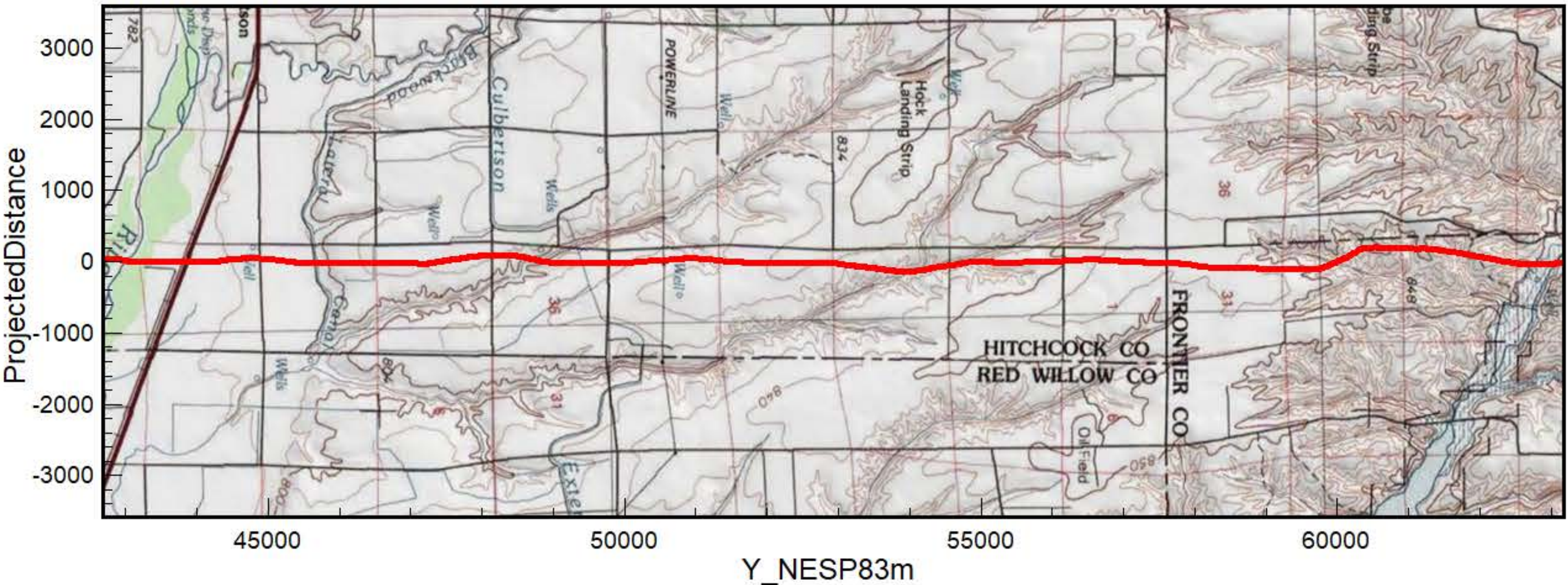
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

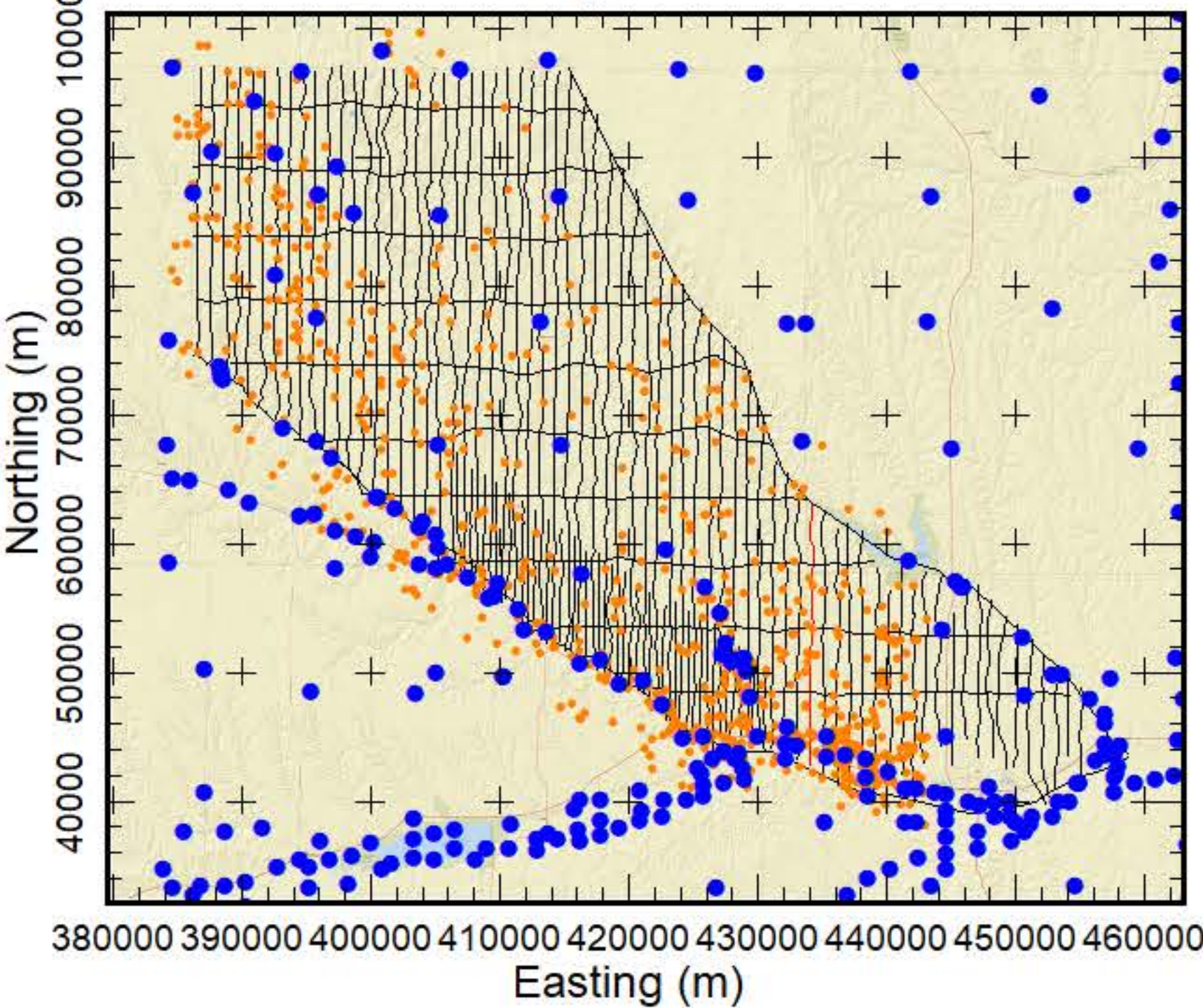




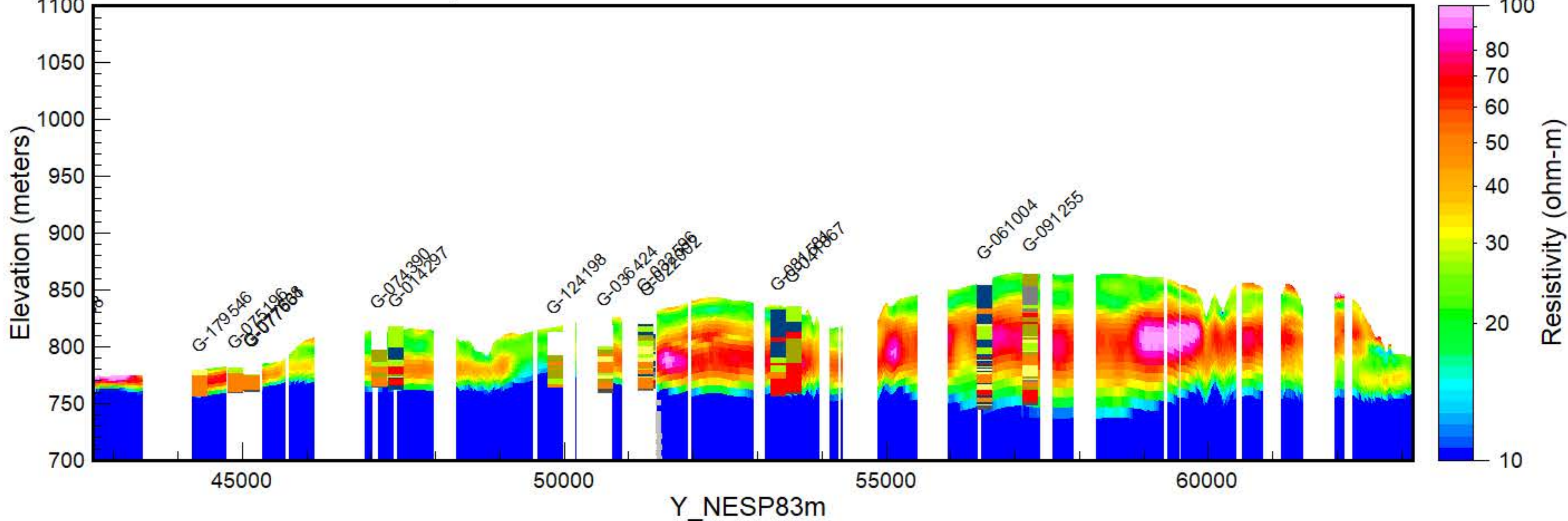
Flight Path Line L104901



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L104901



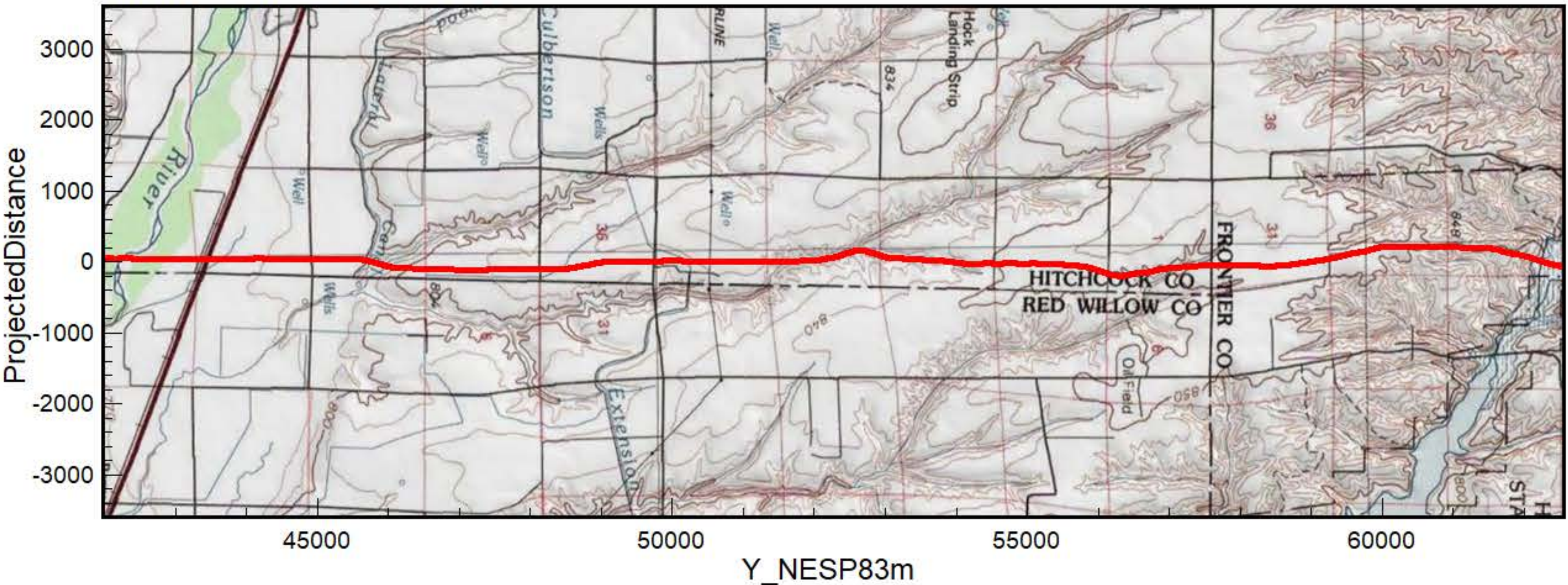
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Grave
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

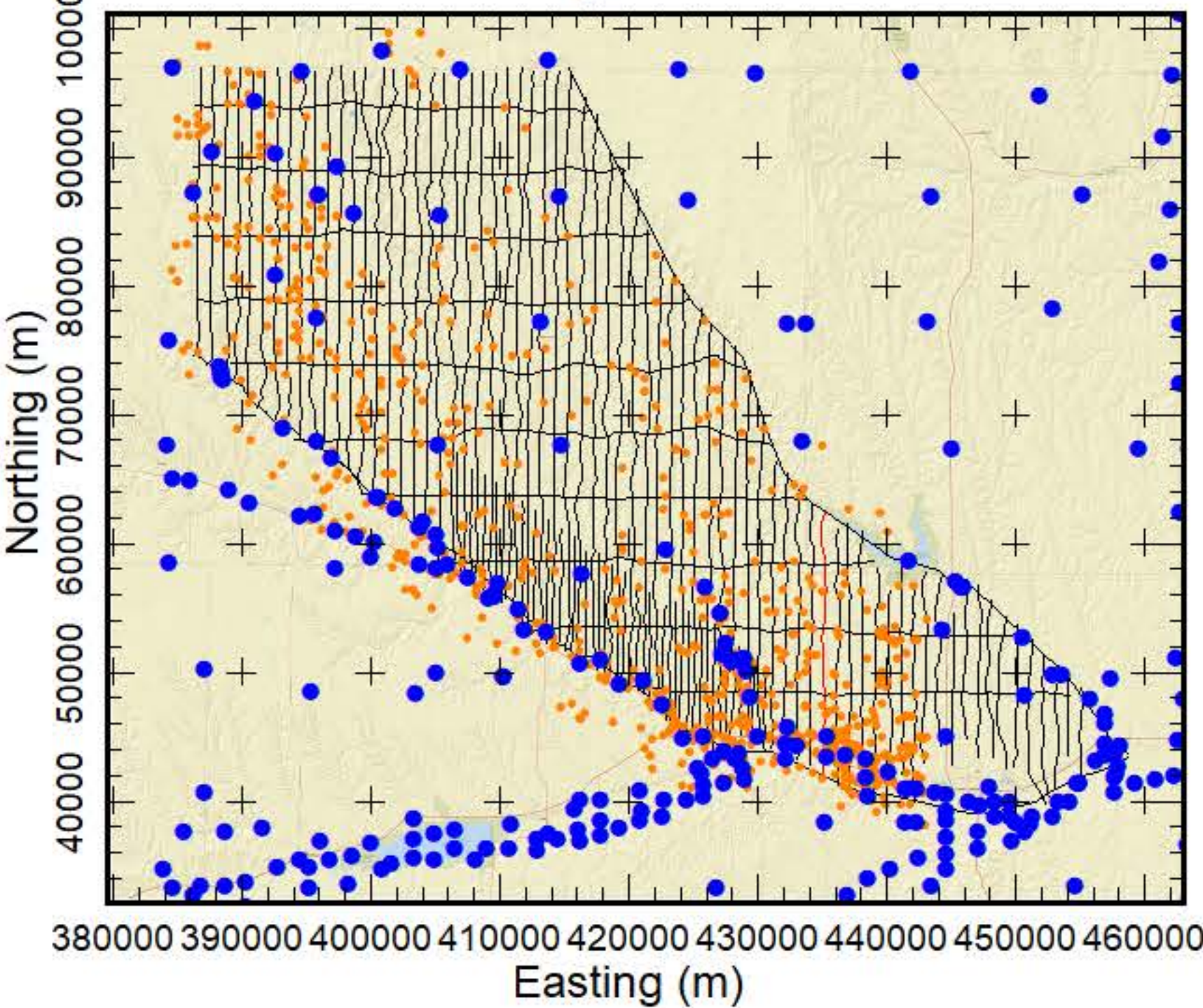




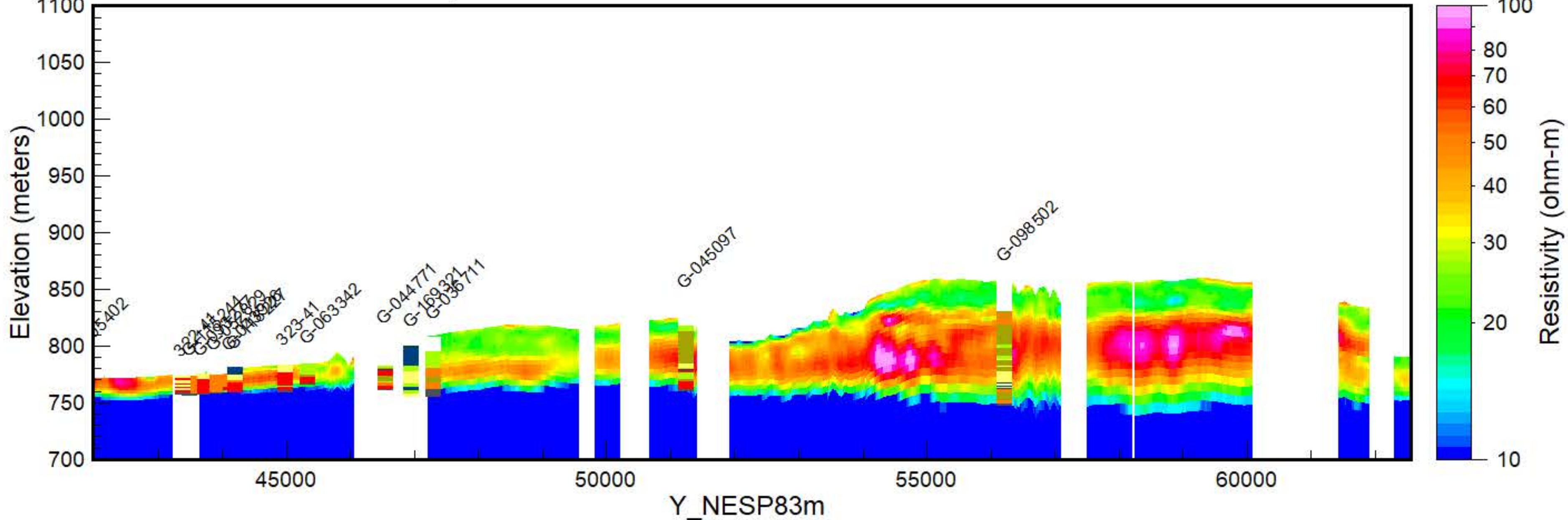
Flight Path Line L105001



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L105001



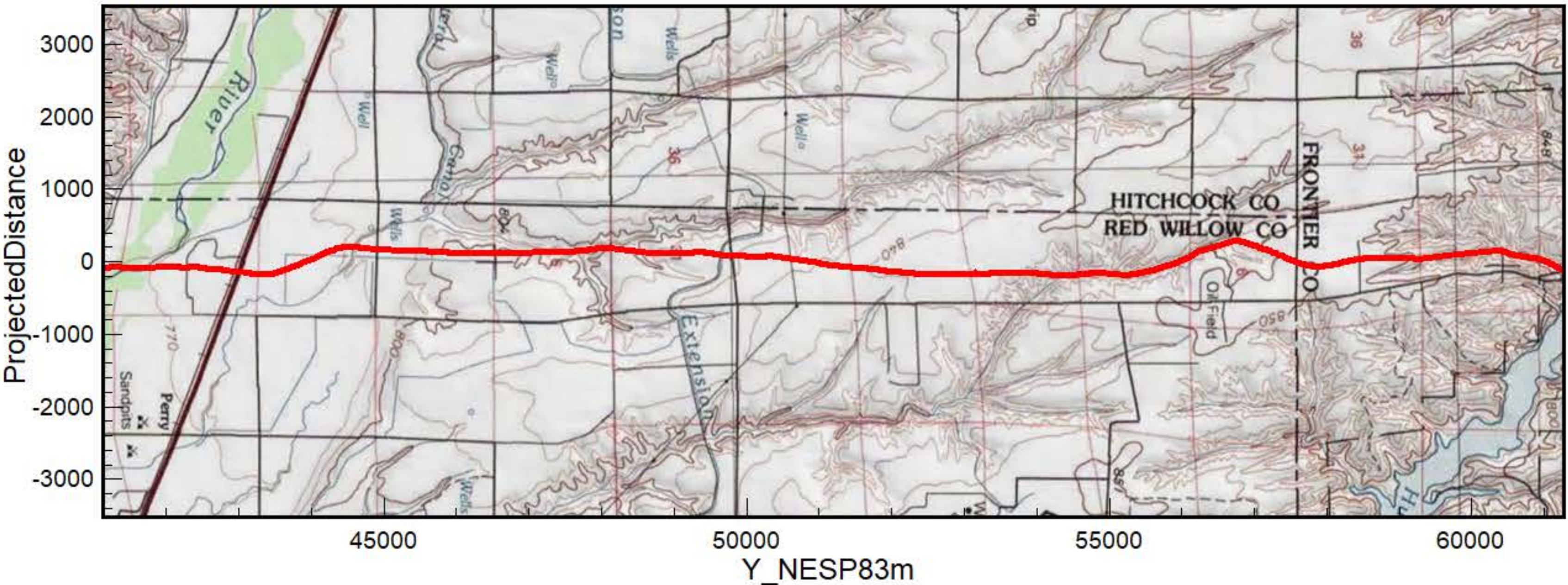
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

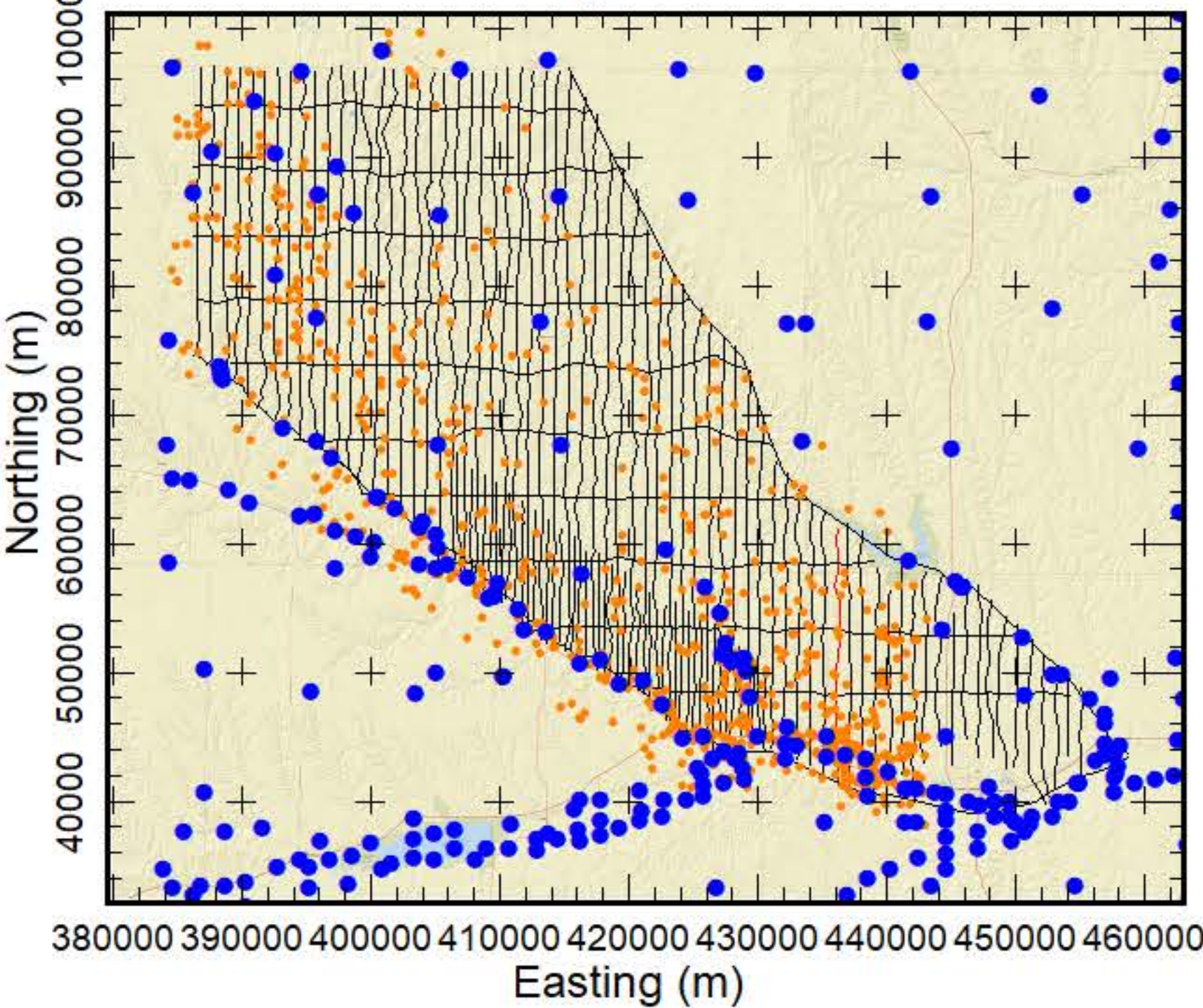




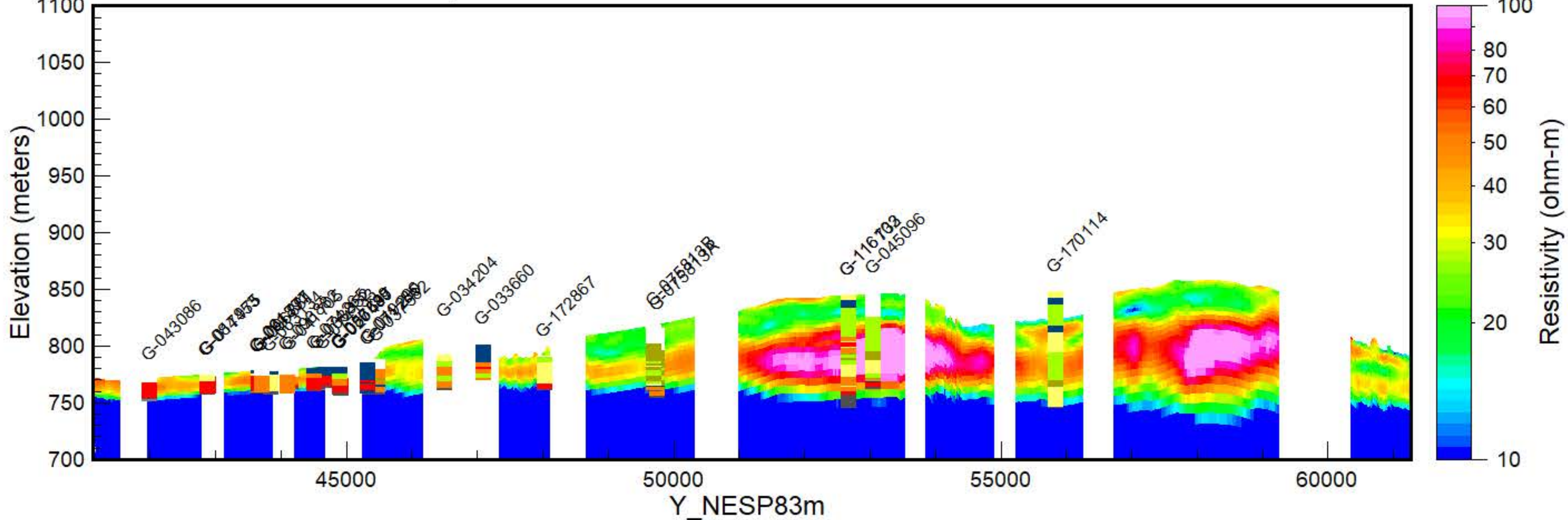
Flight Path Line L105101



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L105101



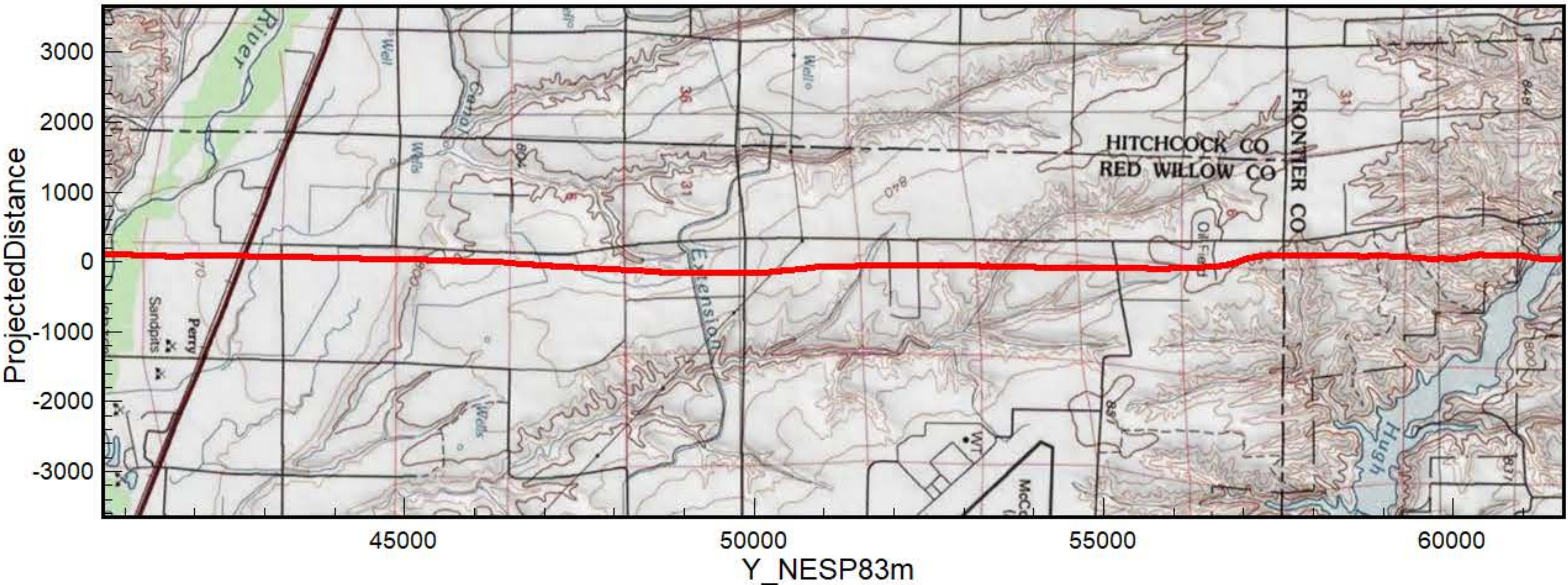
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

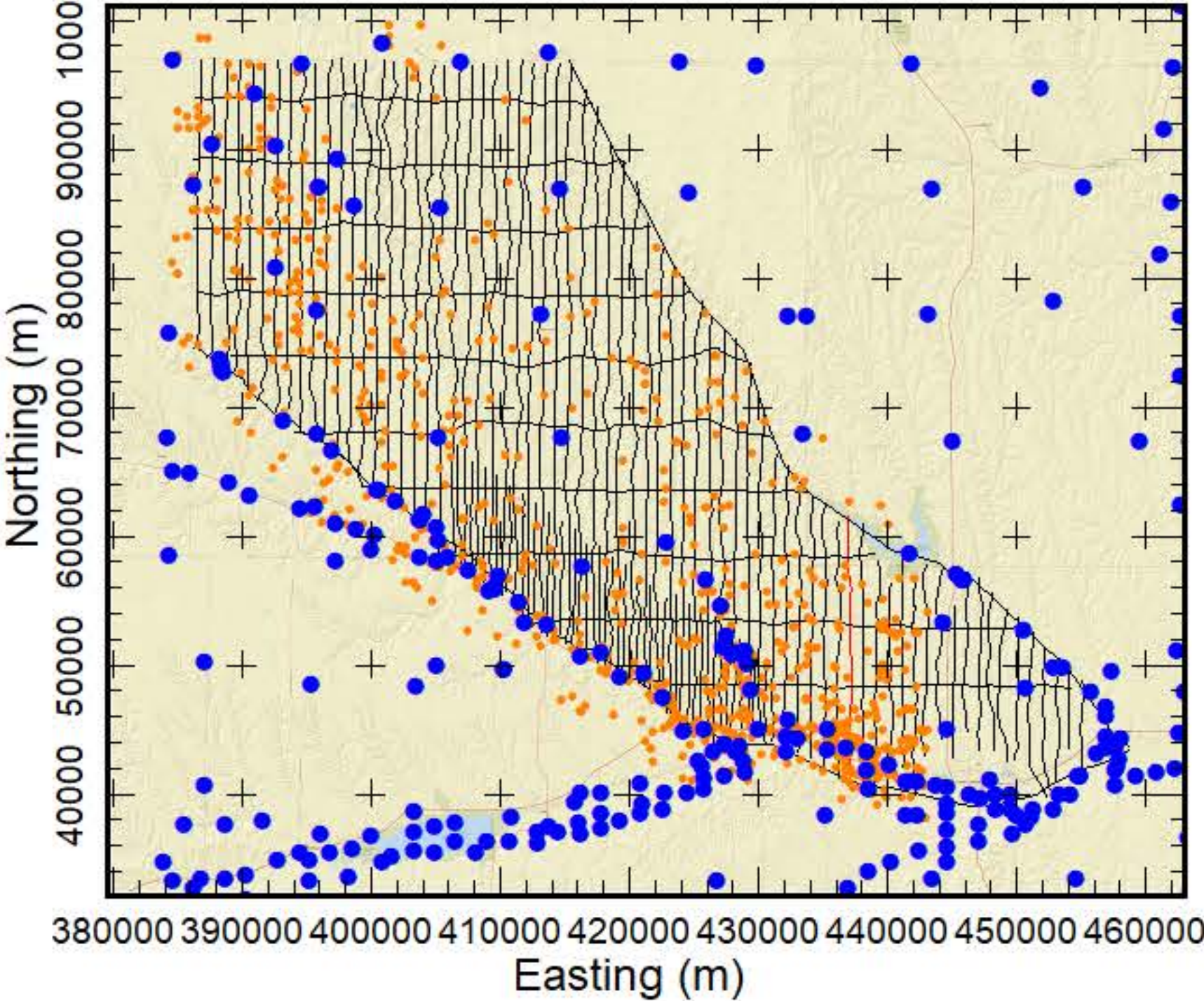




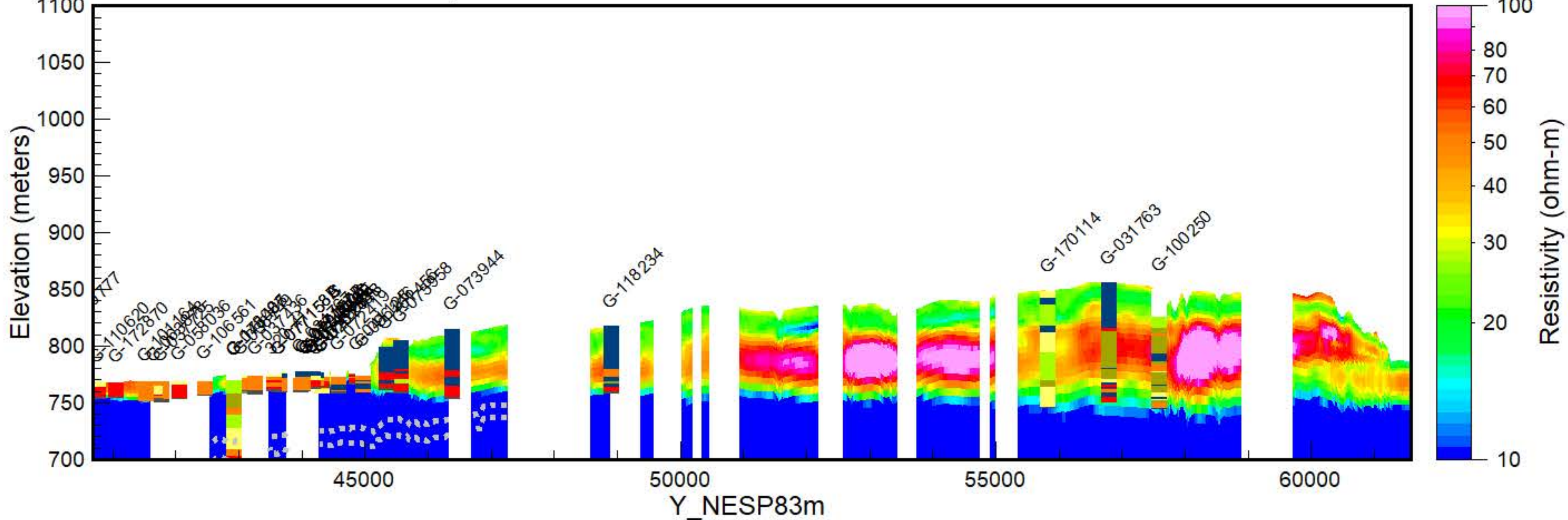
Flight Path Line L105201



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L105201



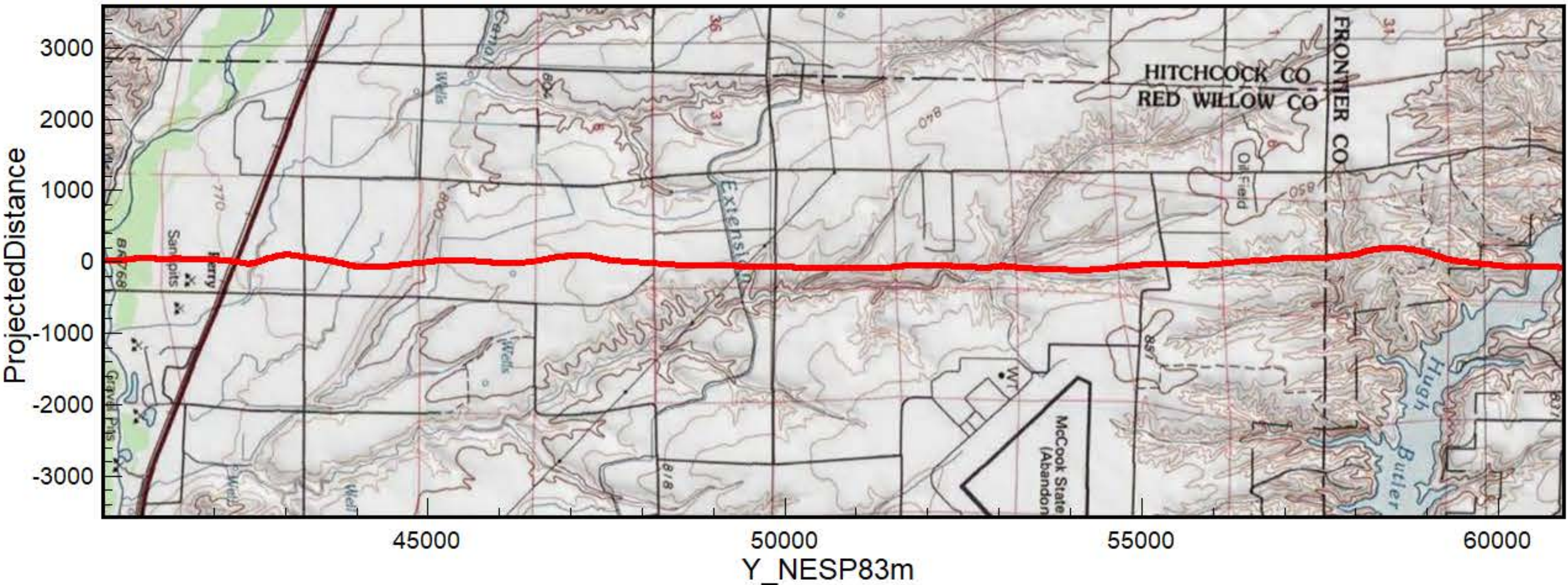
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

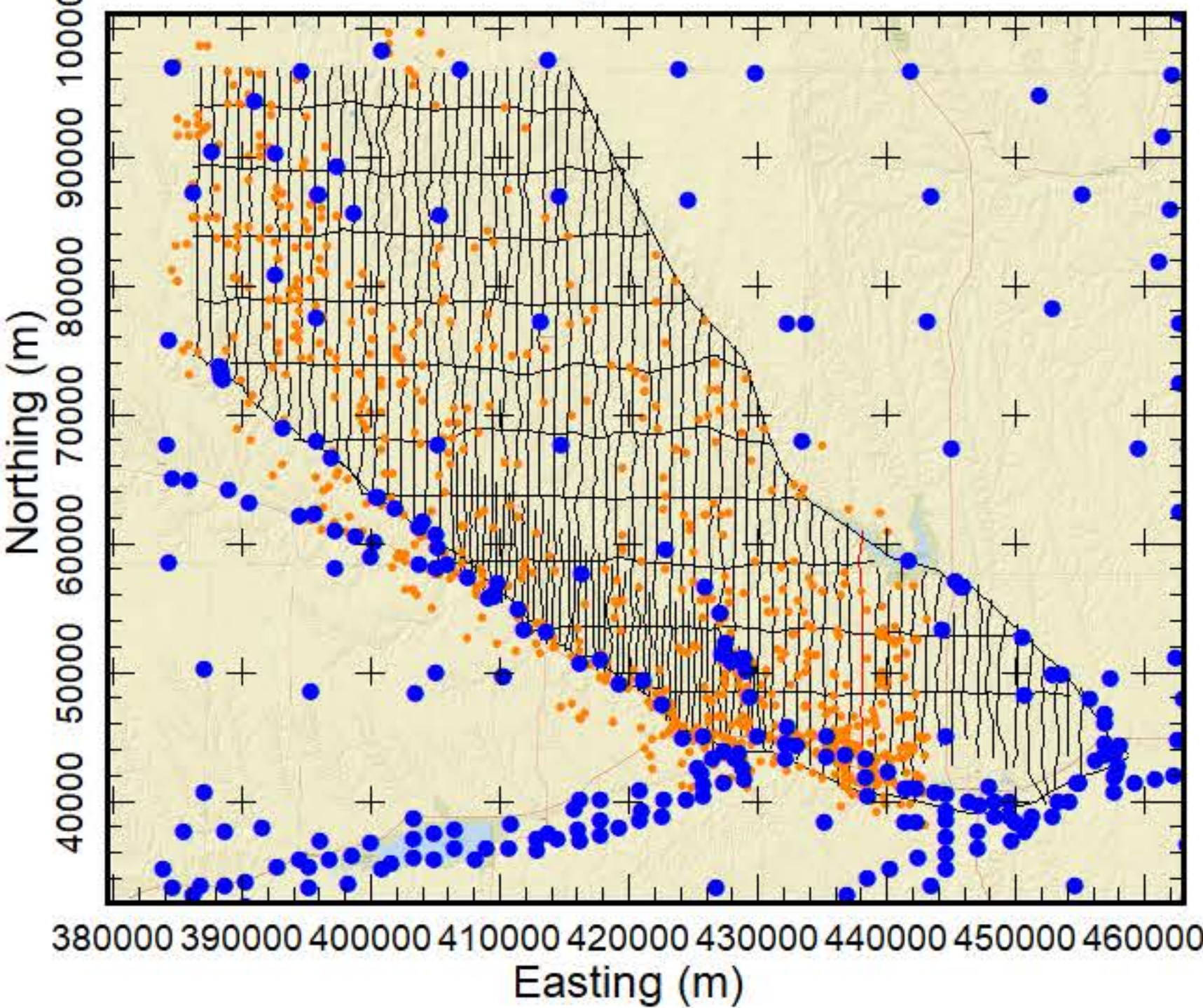




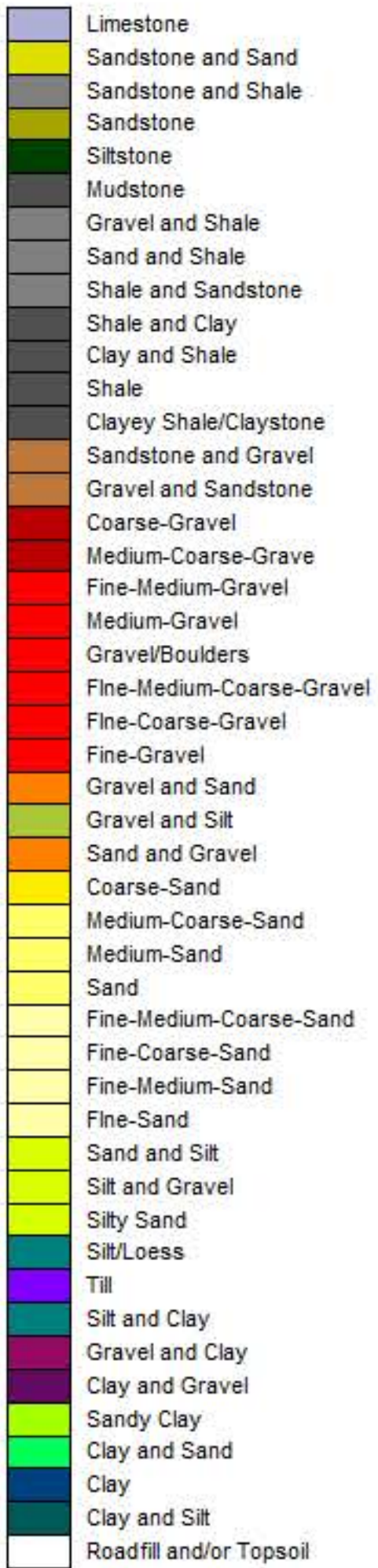
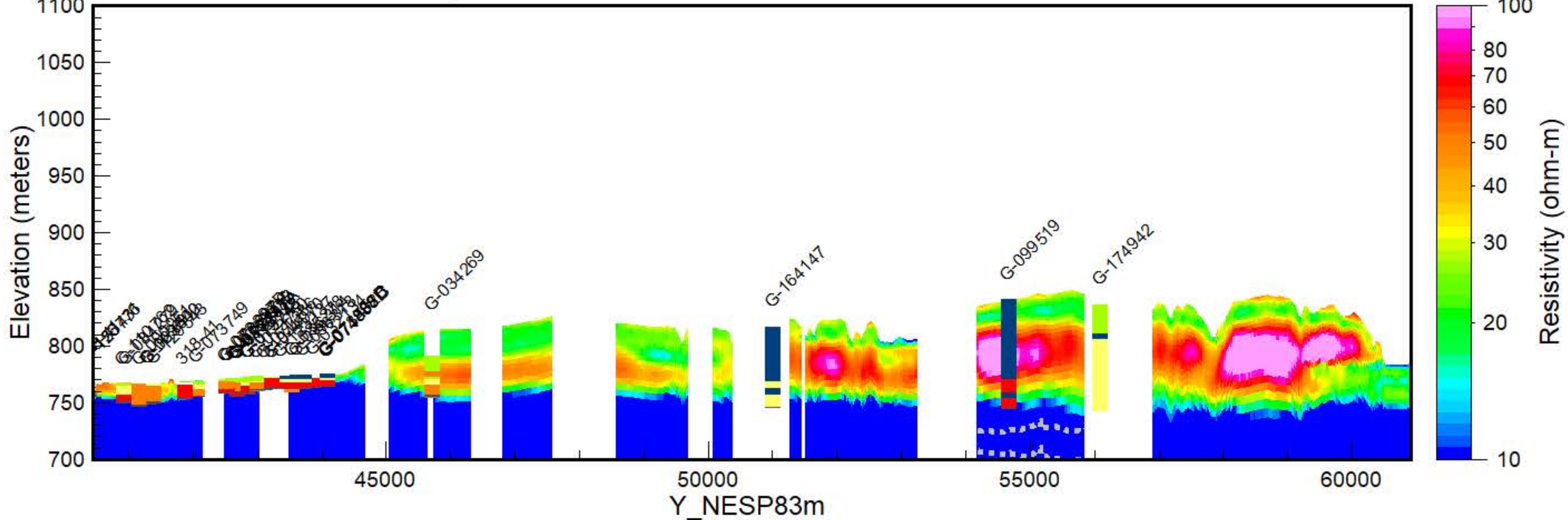
Flight Path Line L105301



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L105301

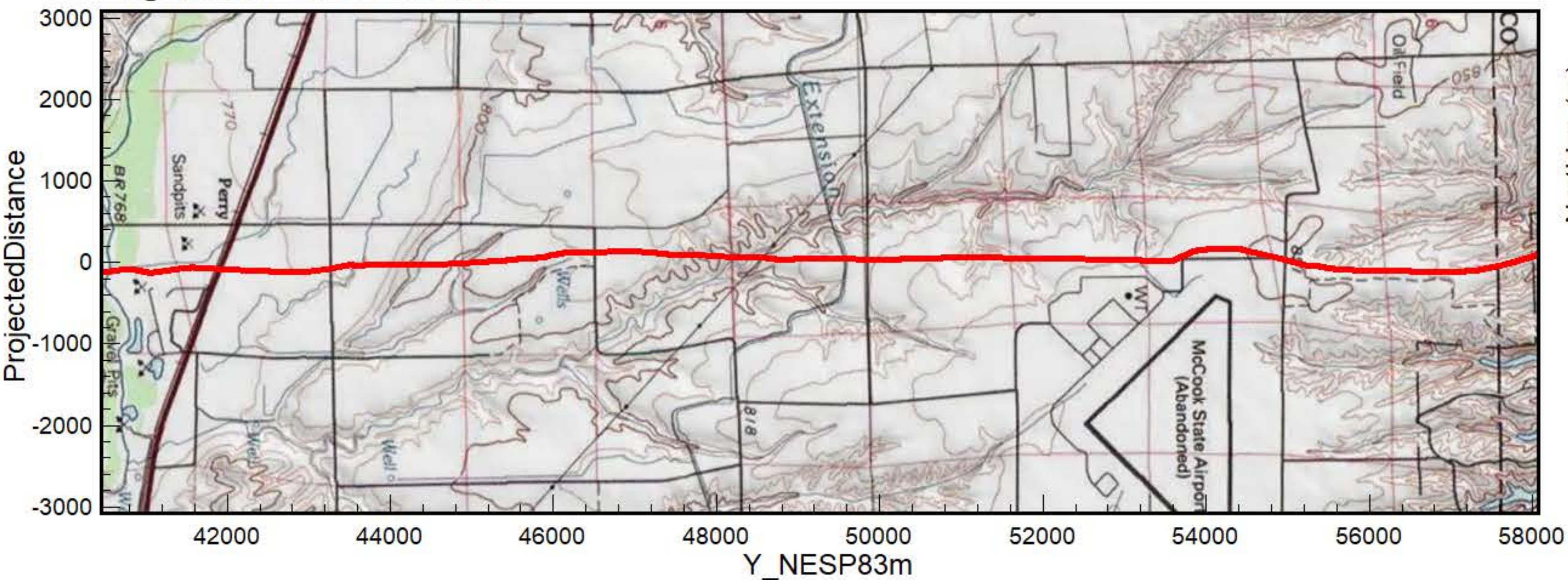


Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

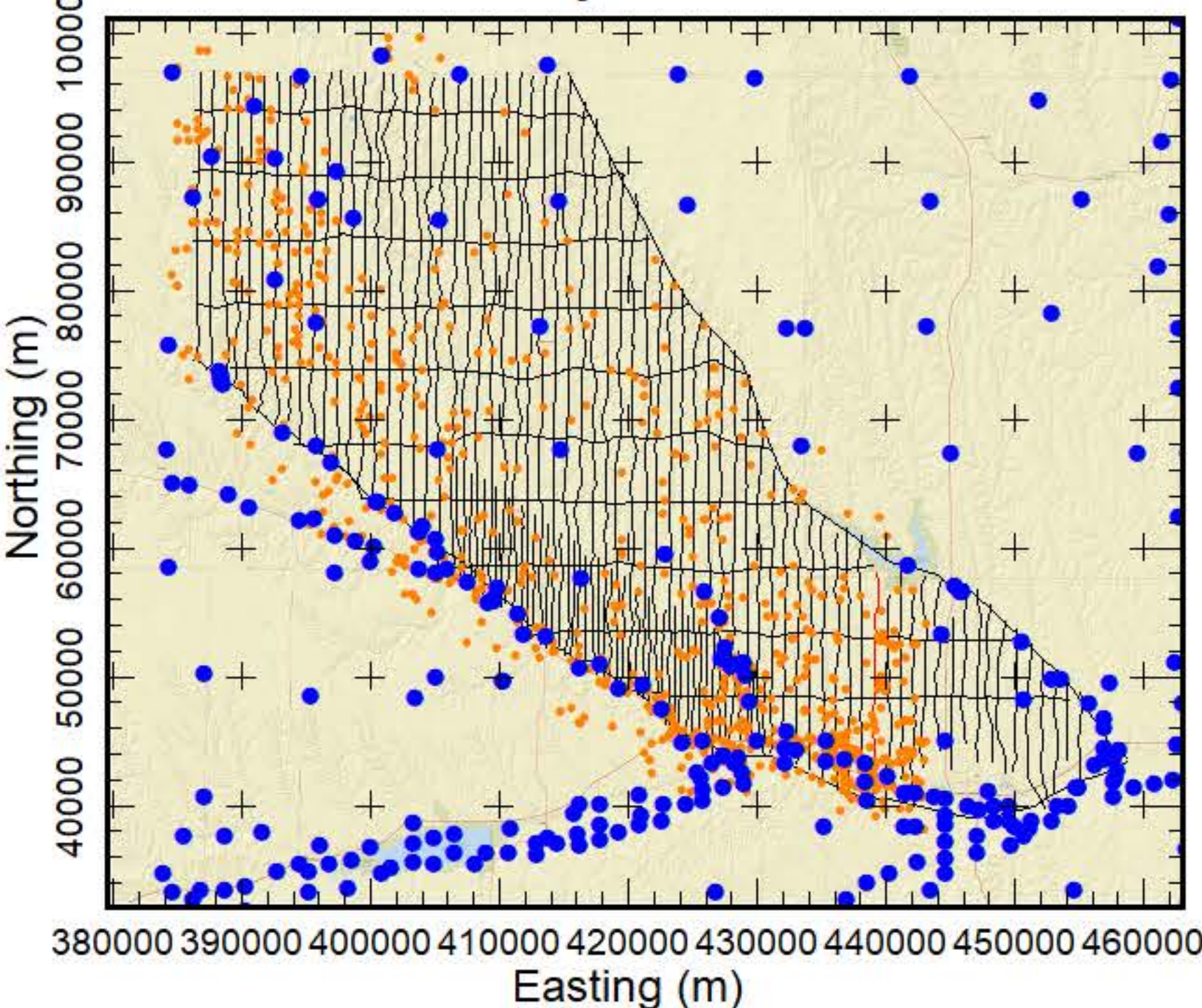




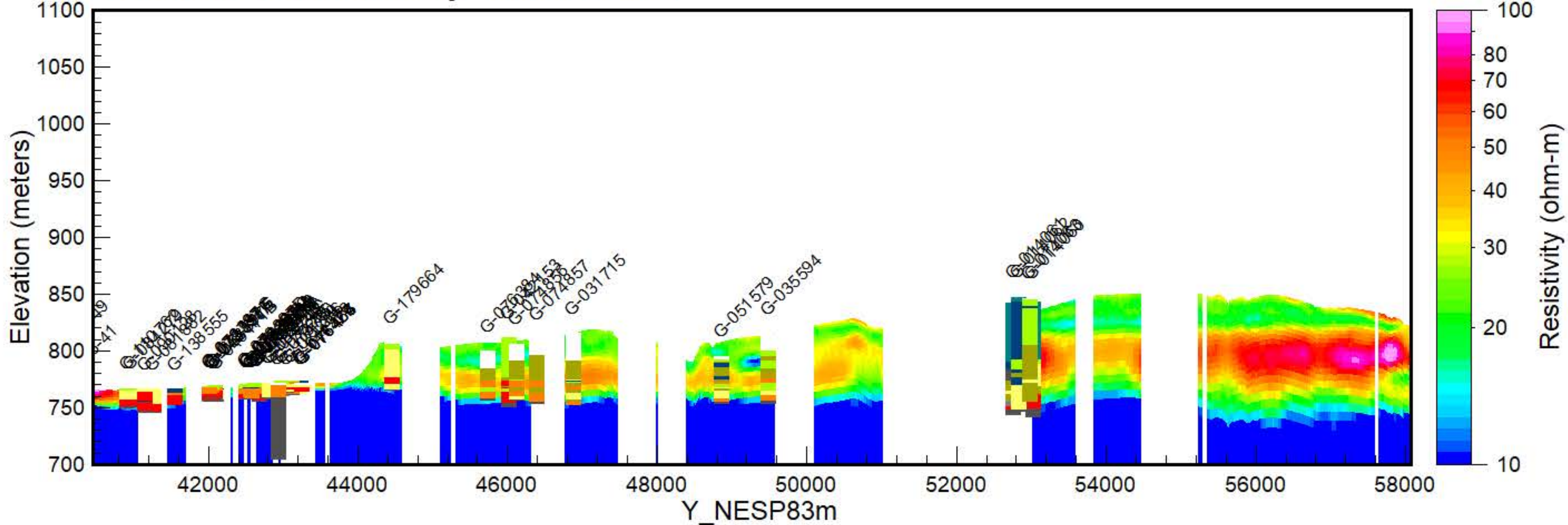
Flight Path Line L105401



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L105401



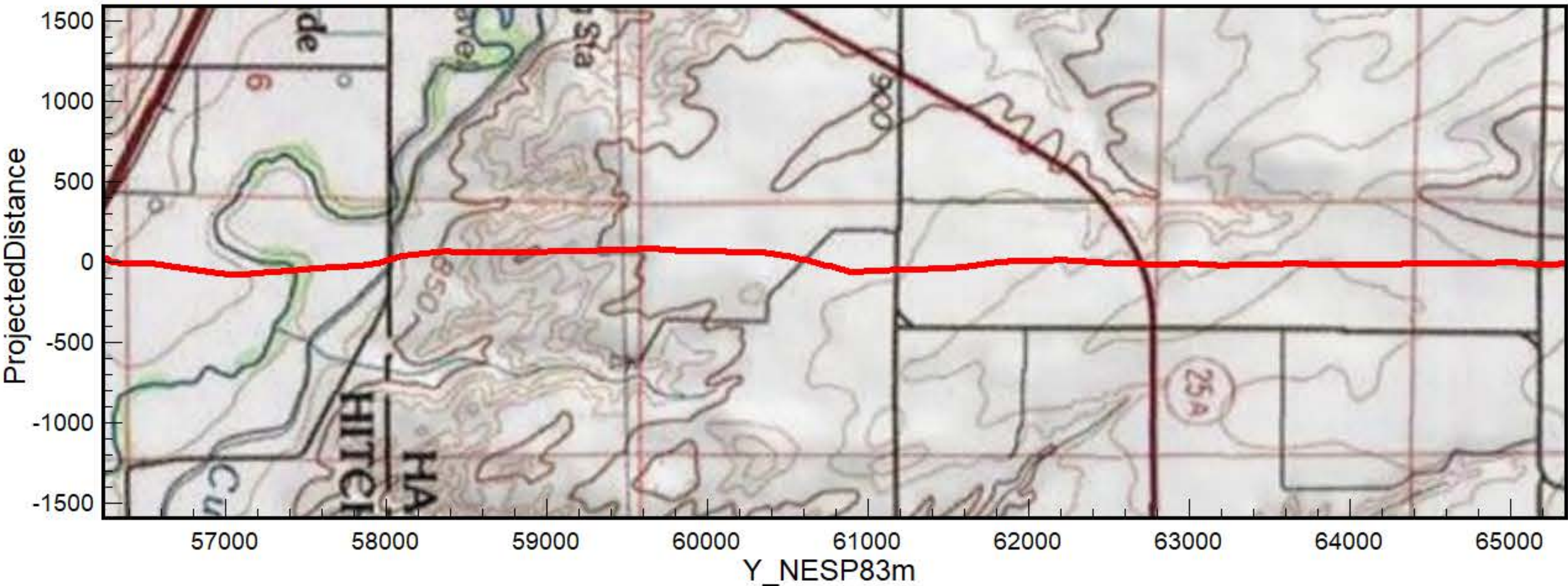
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Grave
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

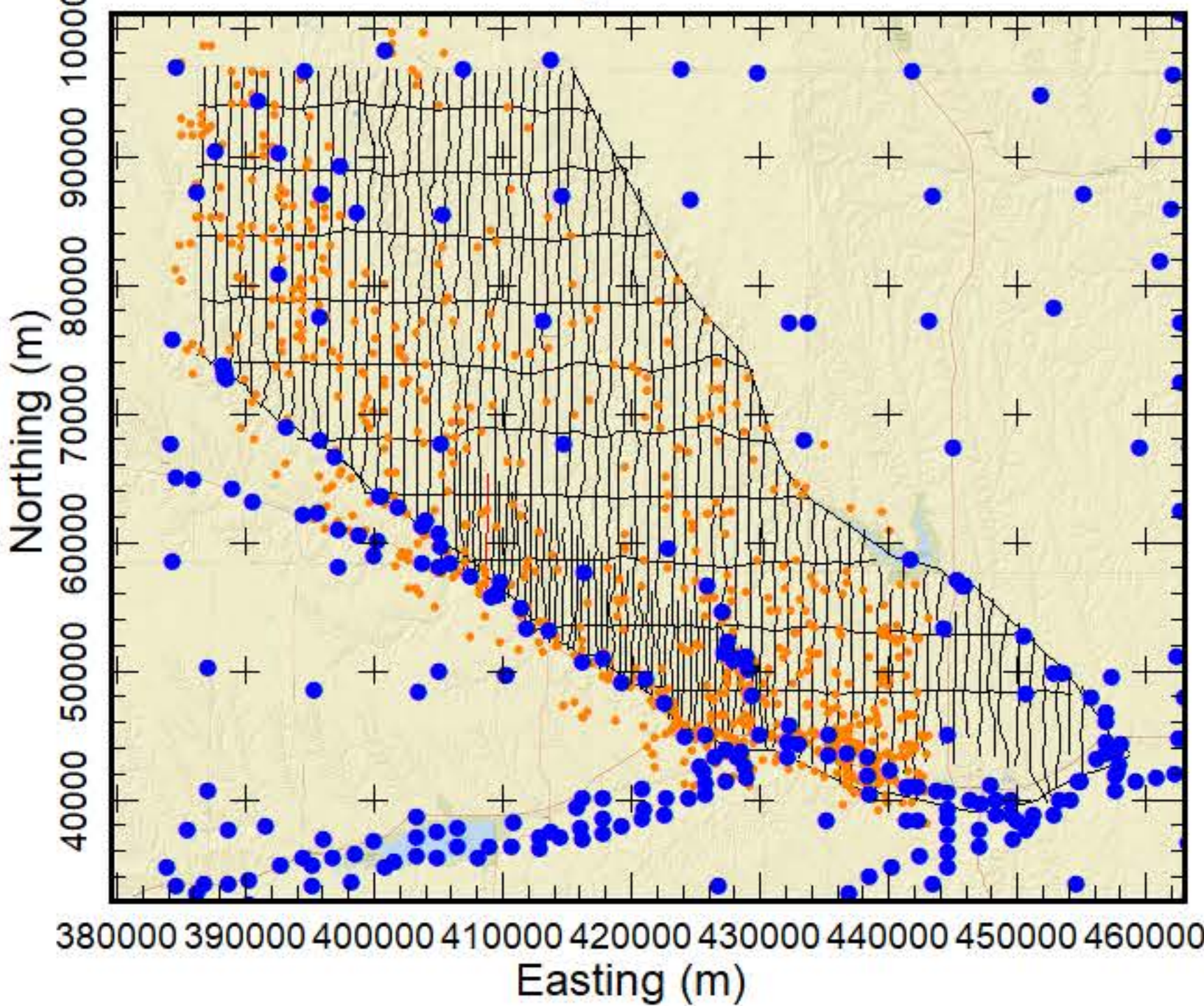




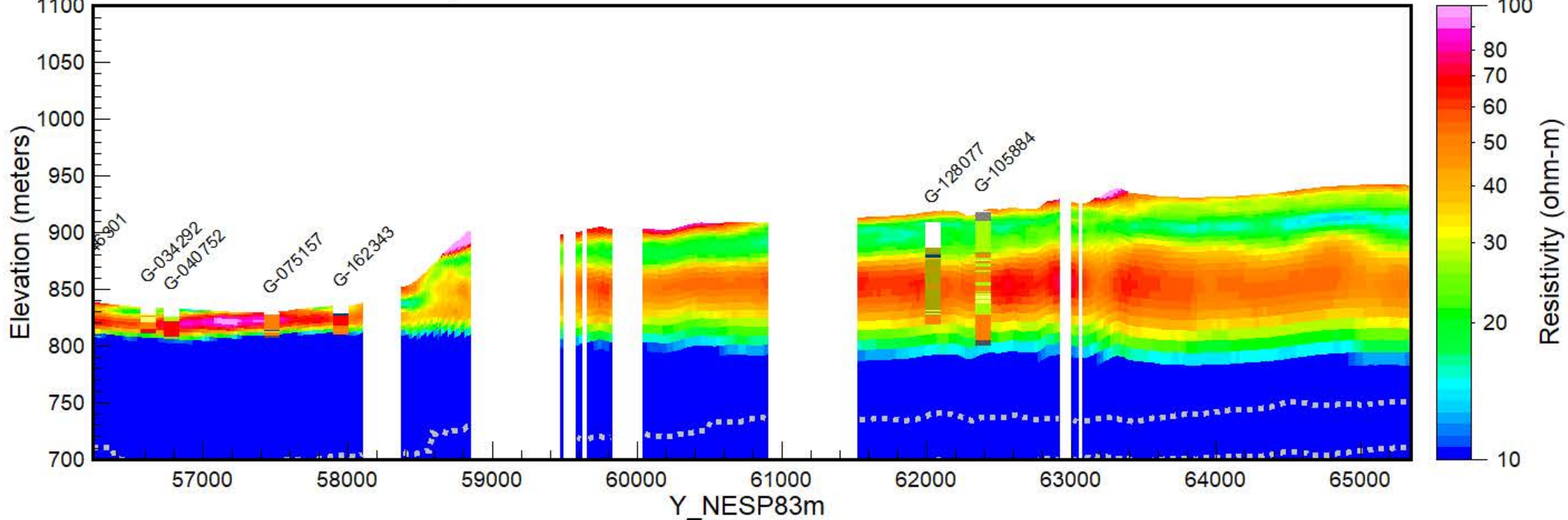
Flight Path Line L110501



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L110501



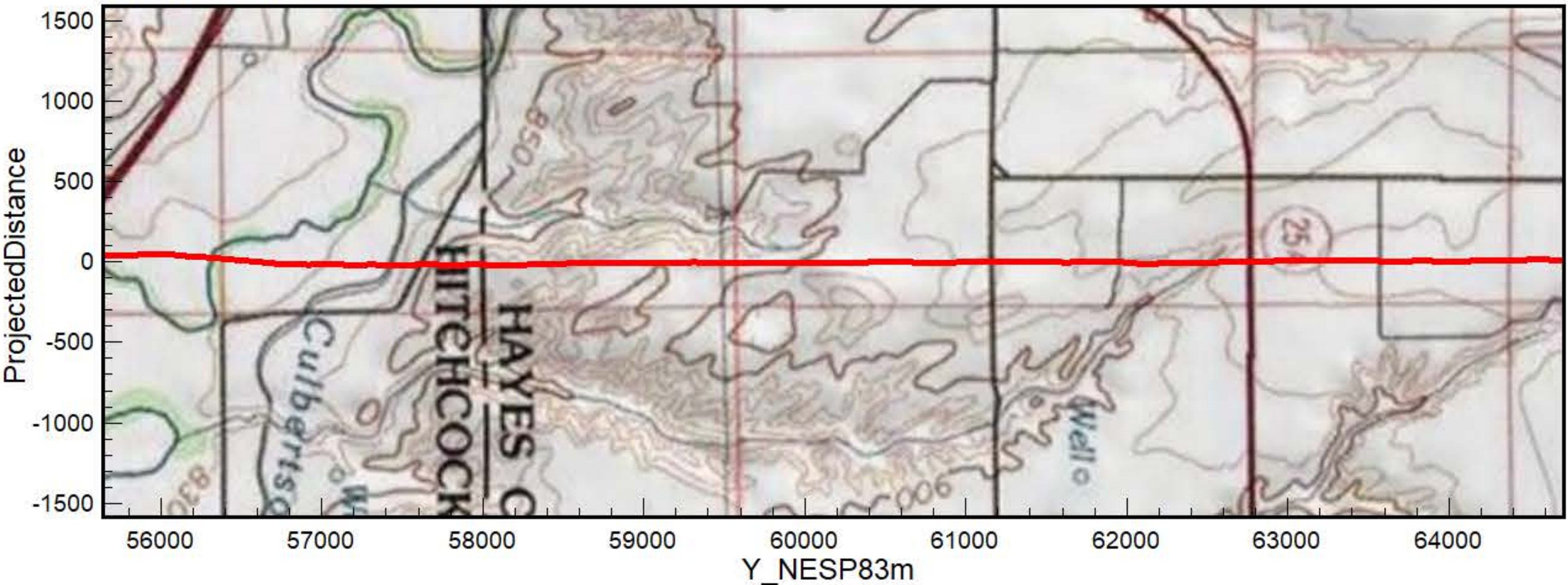
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Grave
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

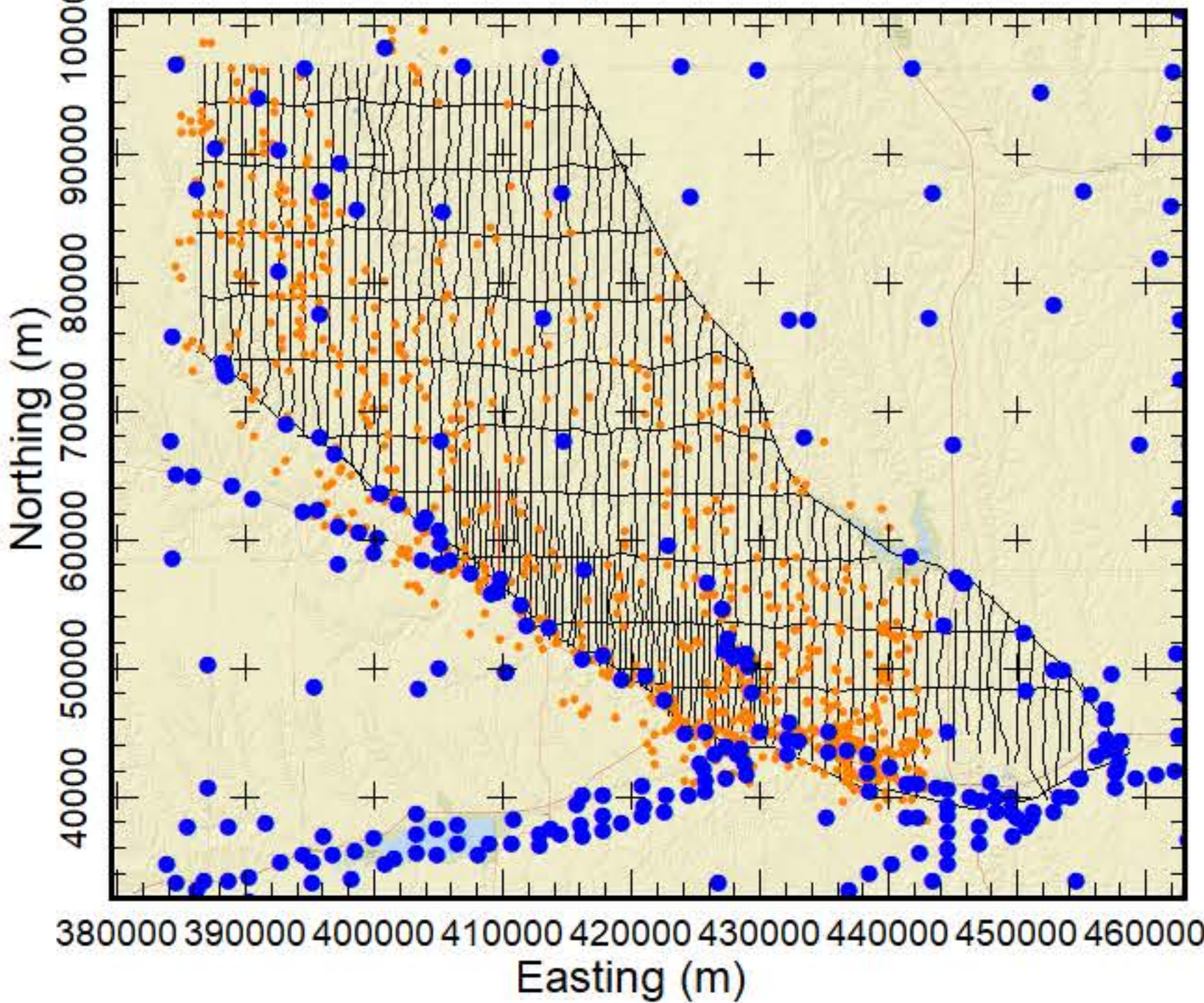




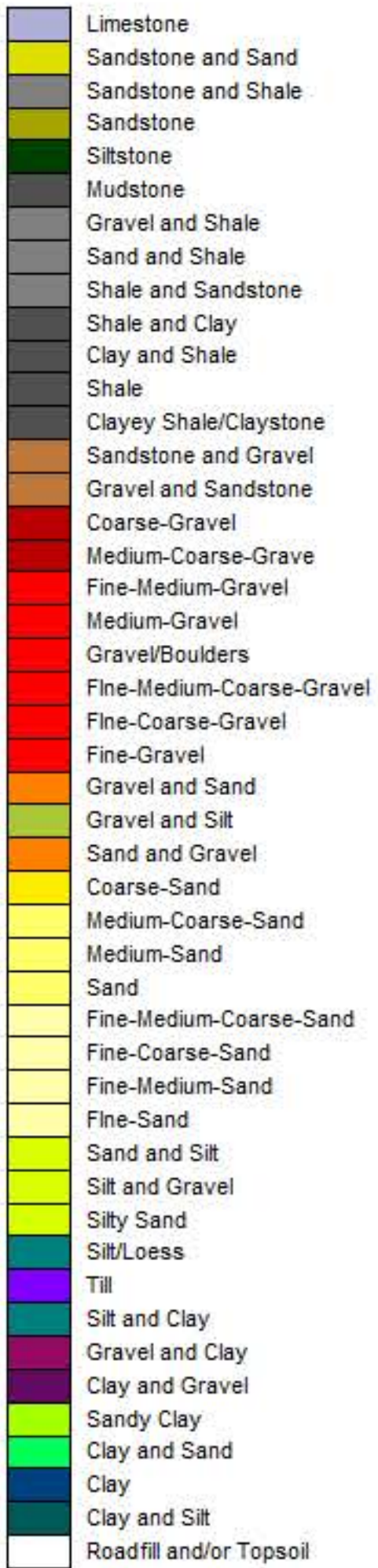
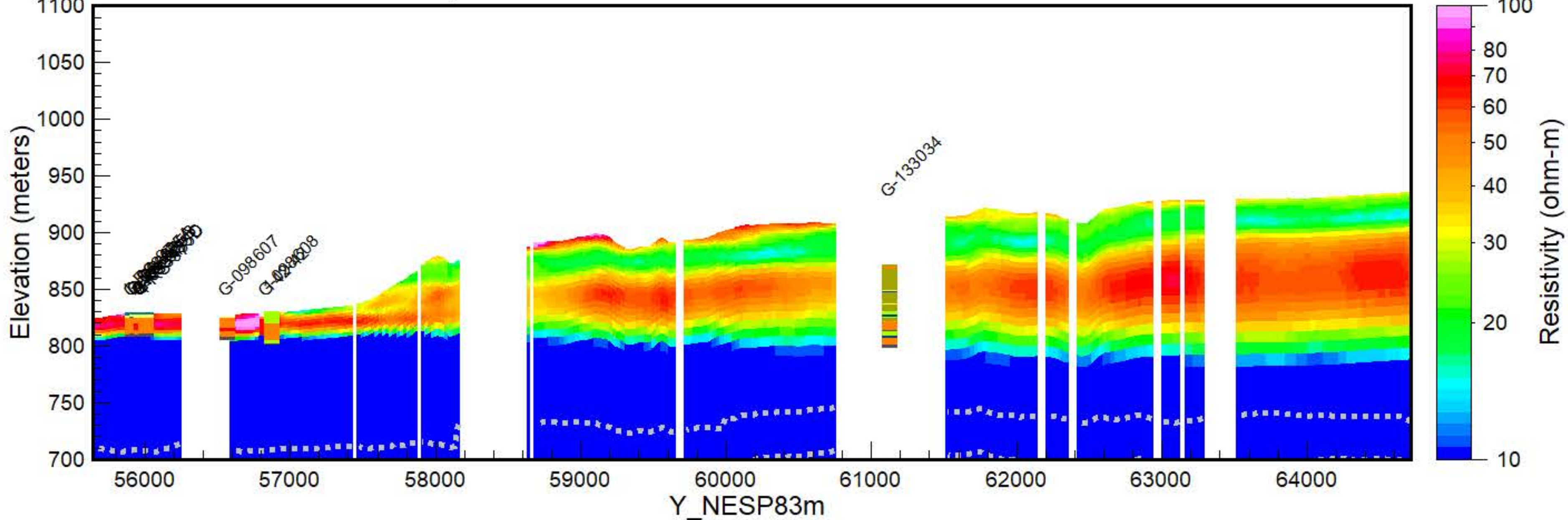
Flight Path Line L110601



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L110601

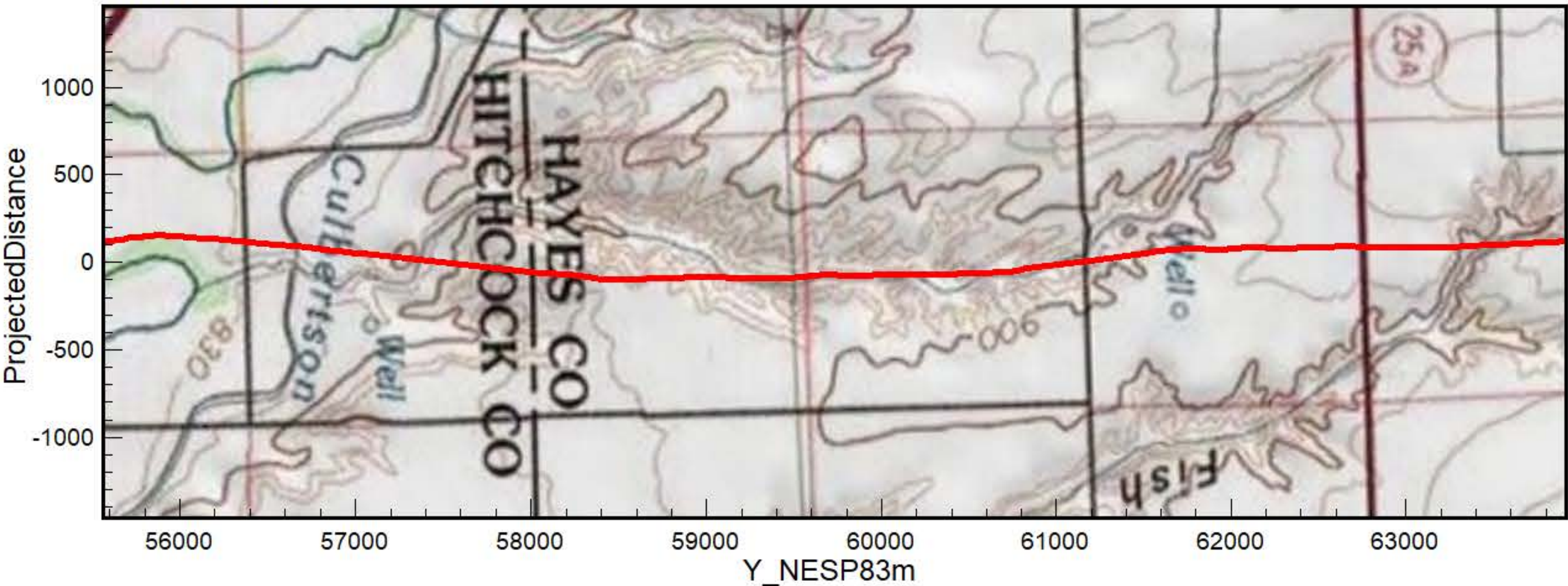


Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

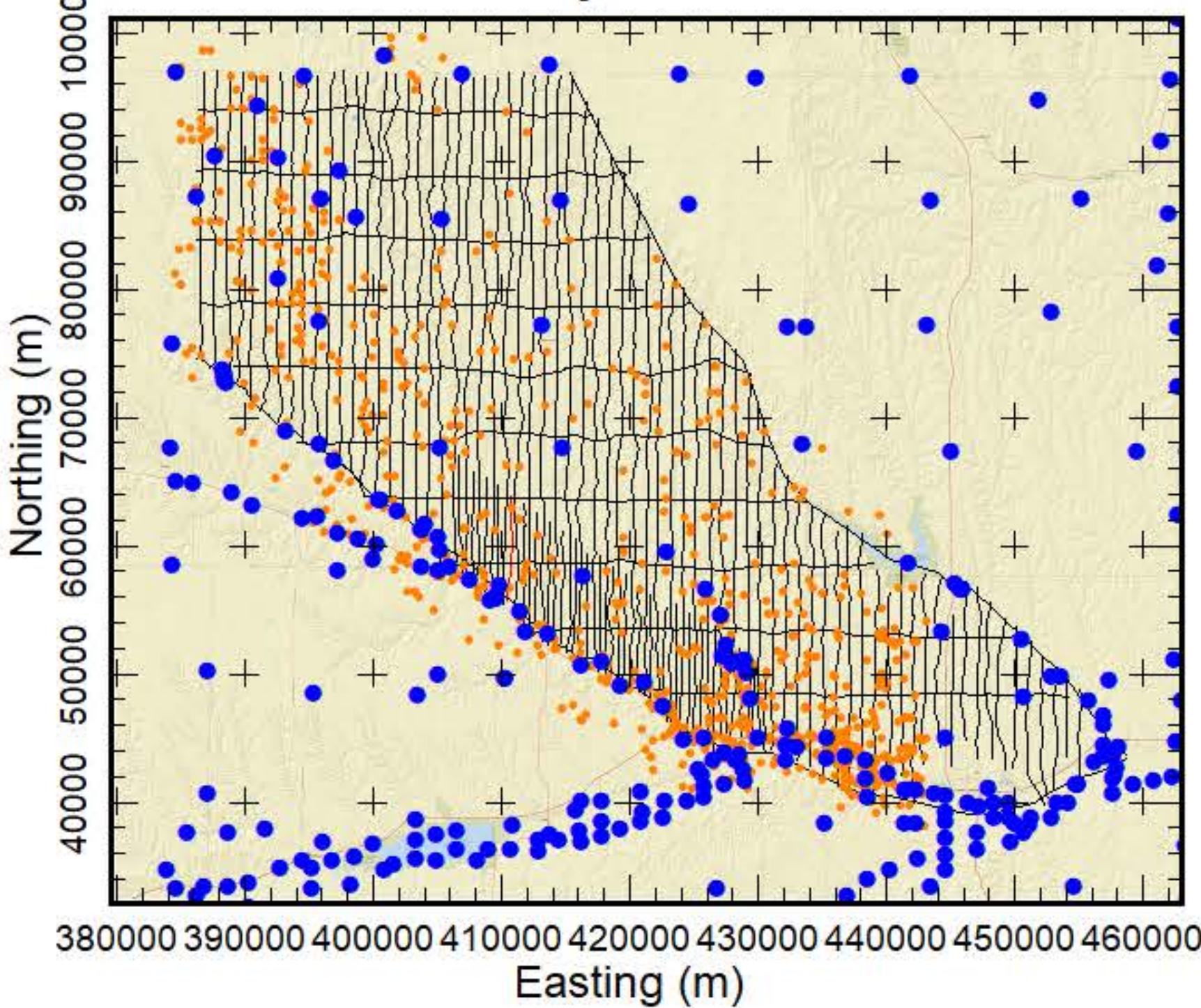




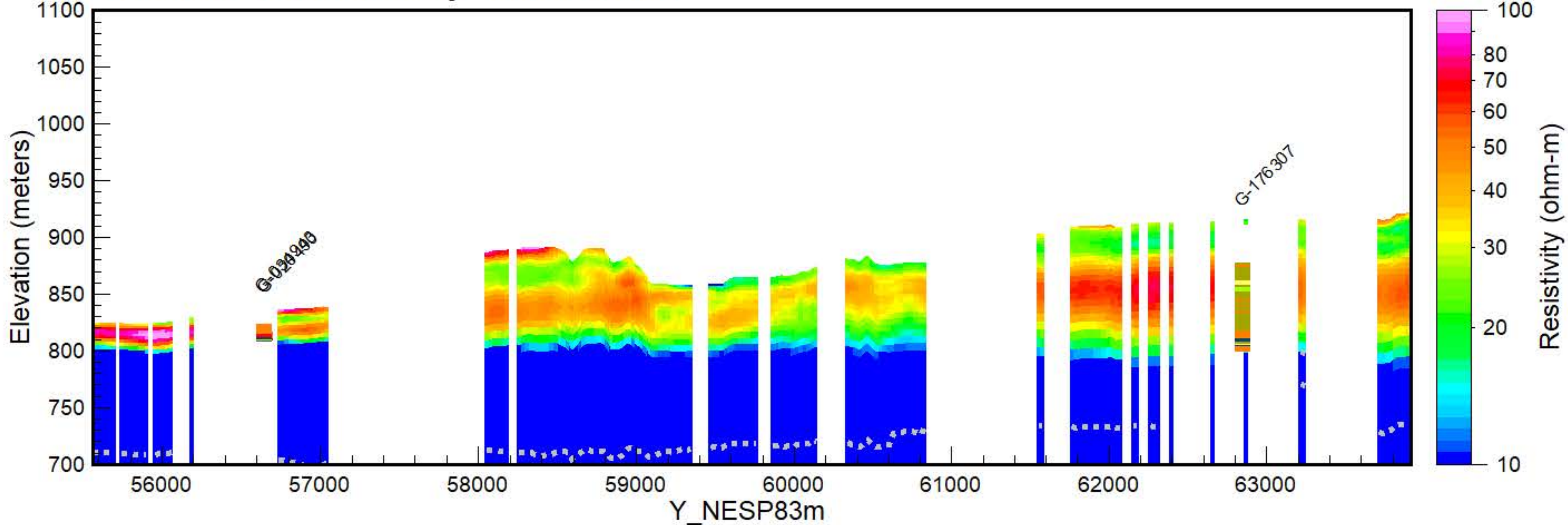
Flight Path Line L110701



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L110701



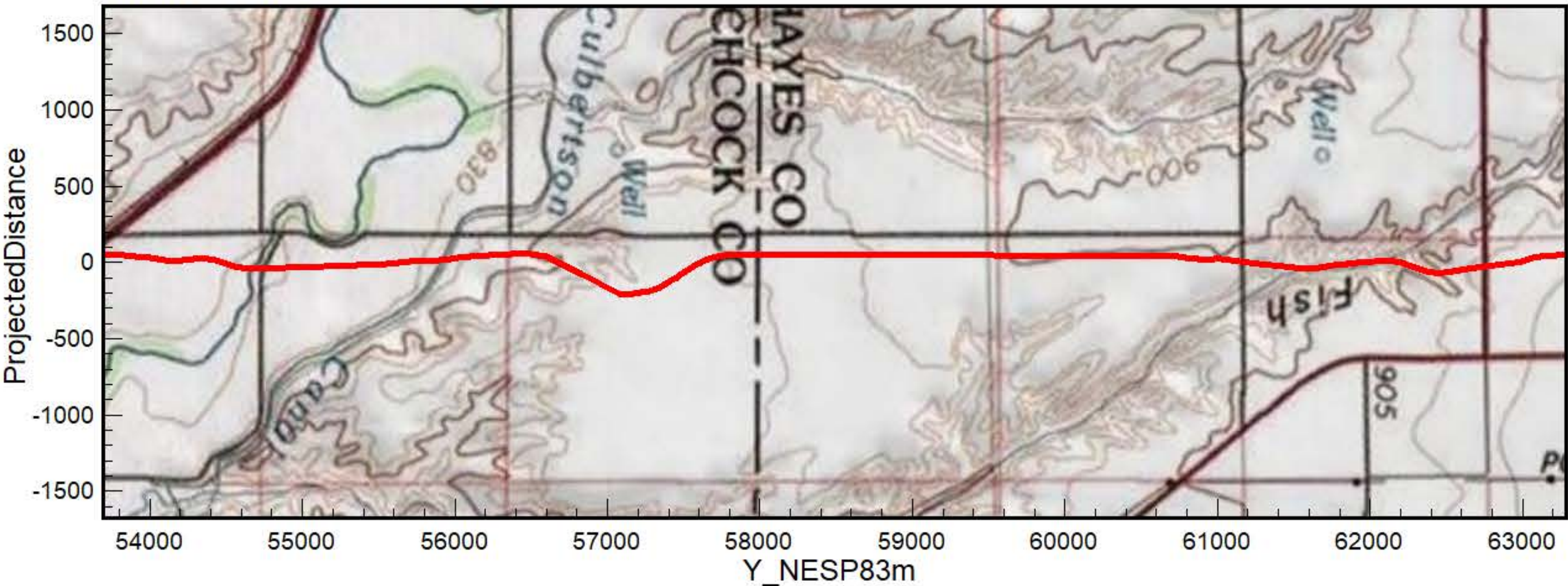
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

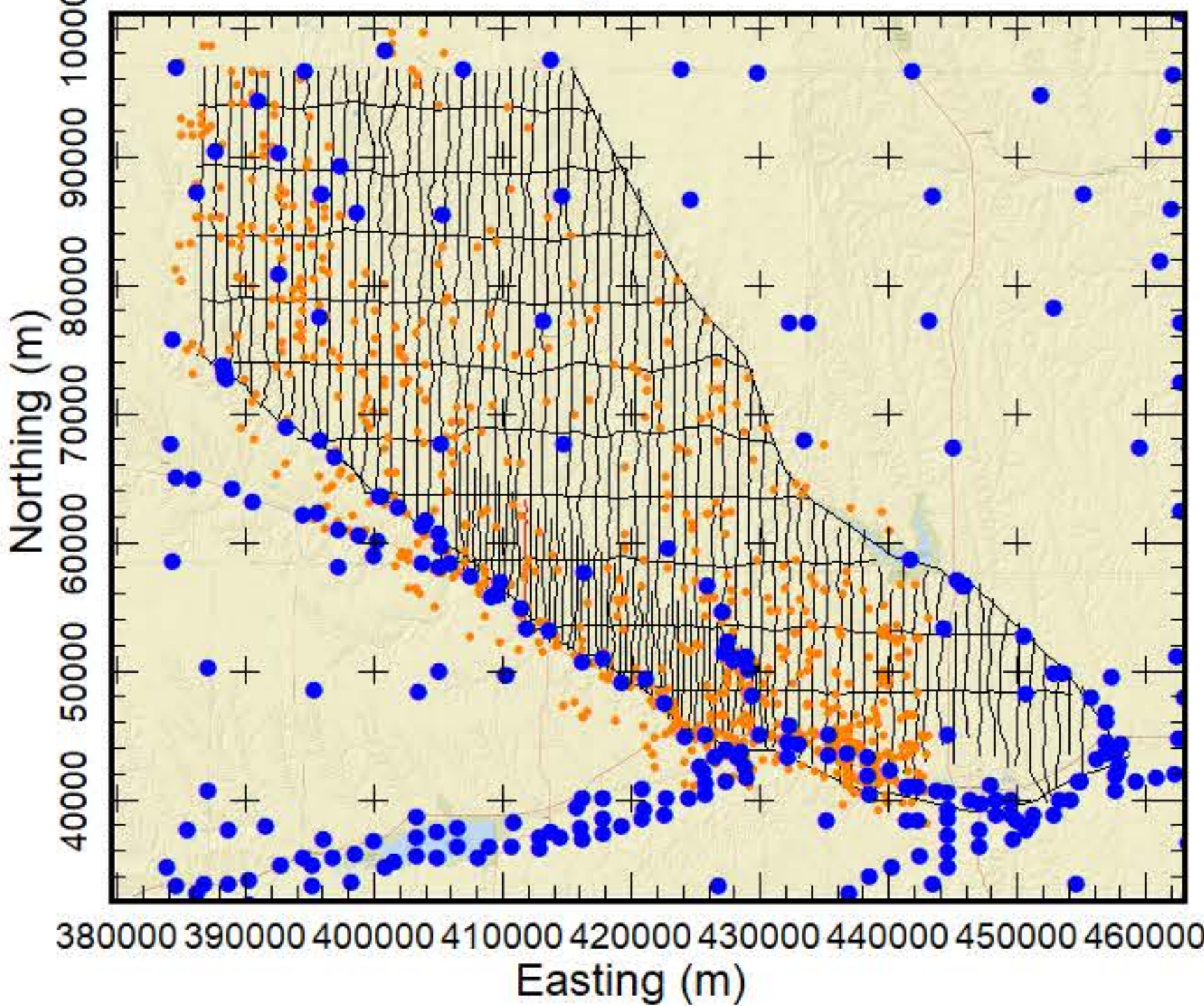




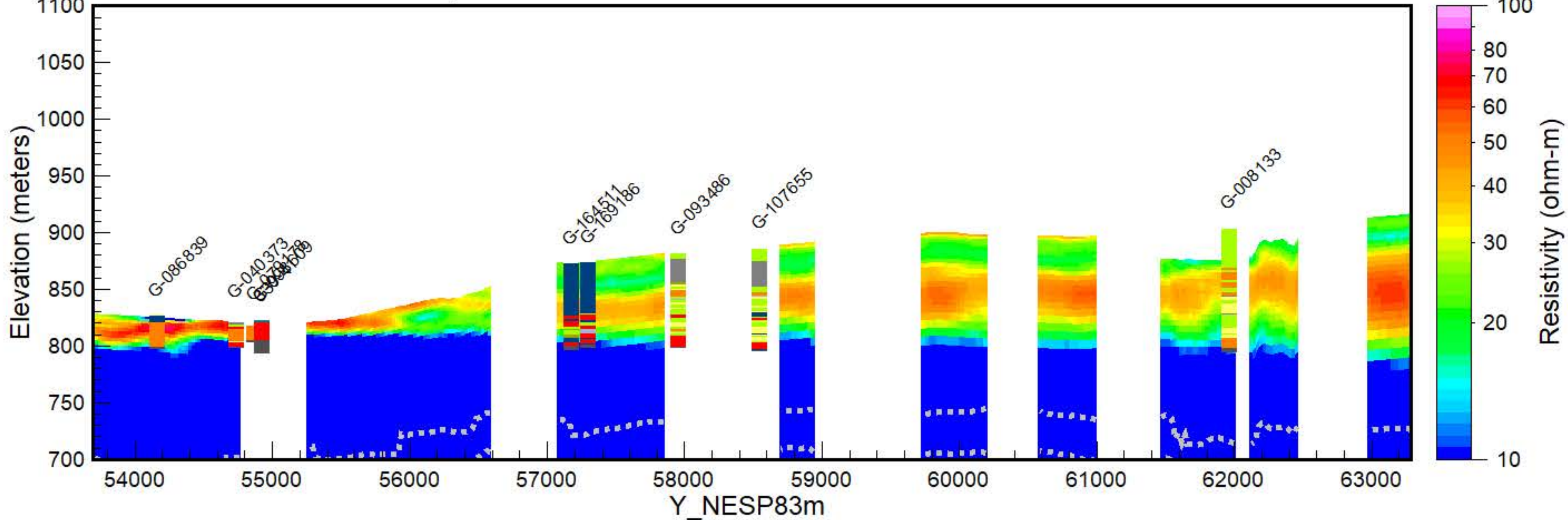
Flight Path Line L110801



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L110801



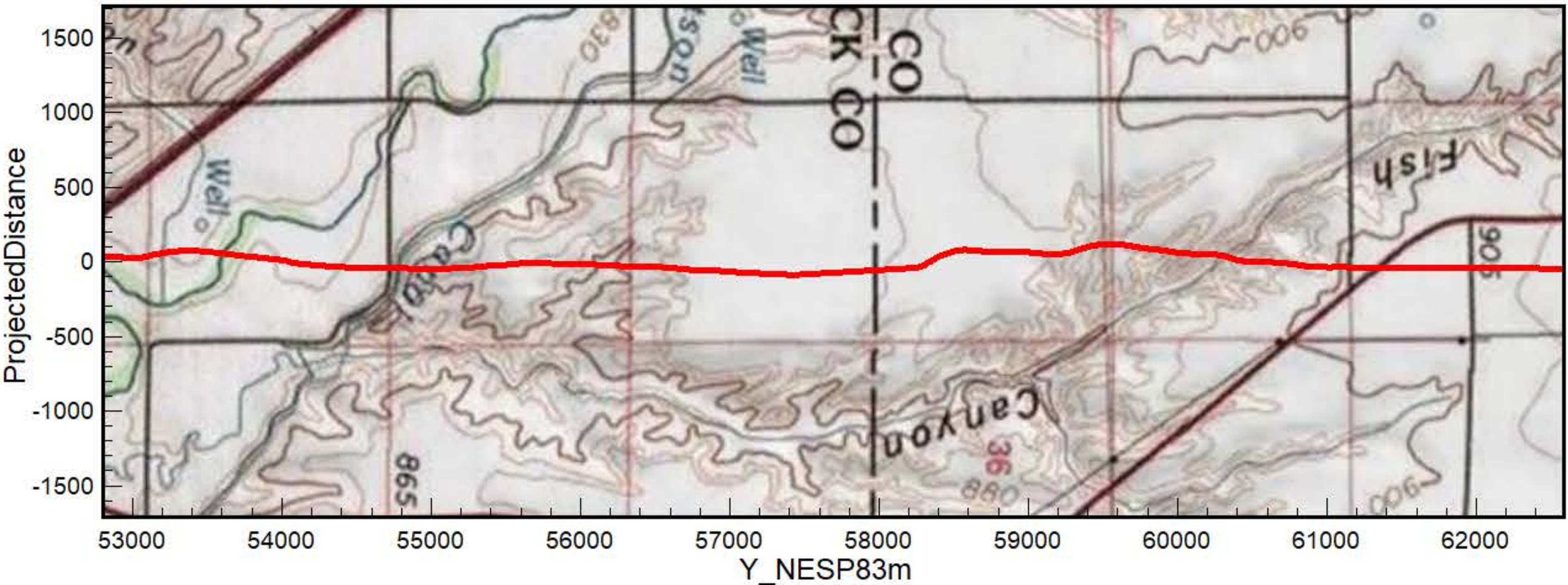
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Grave
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

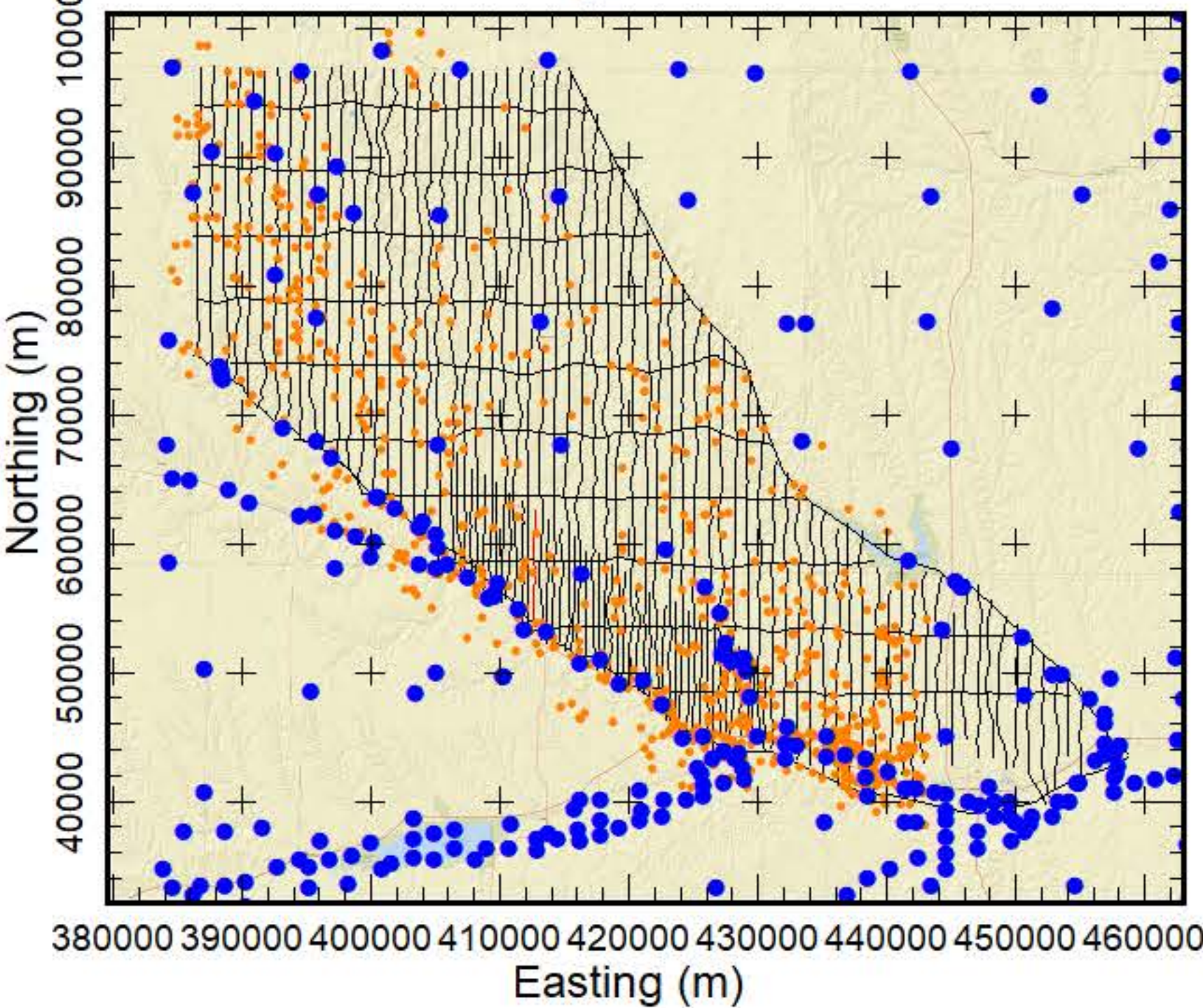




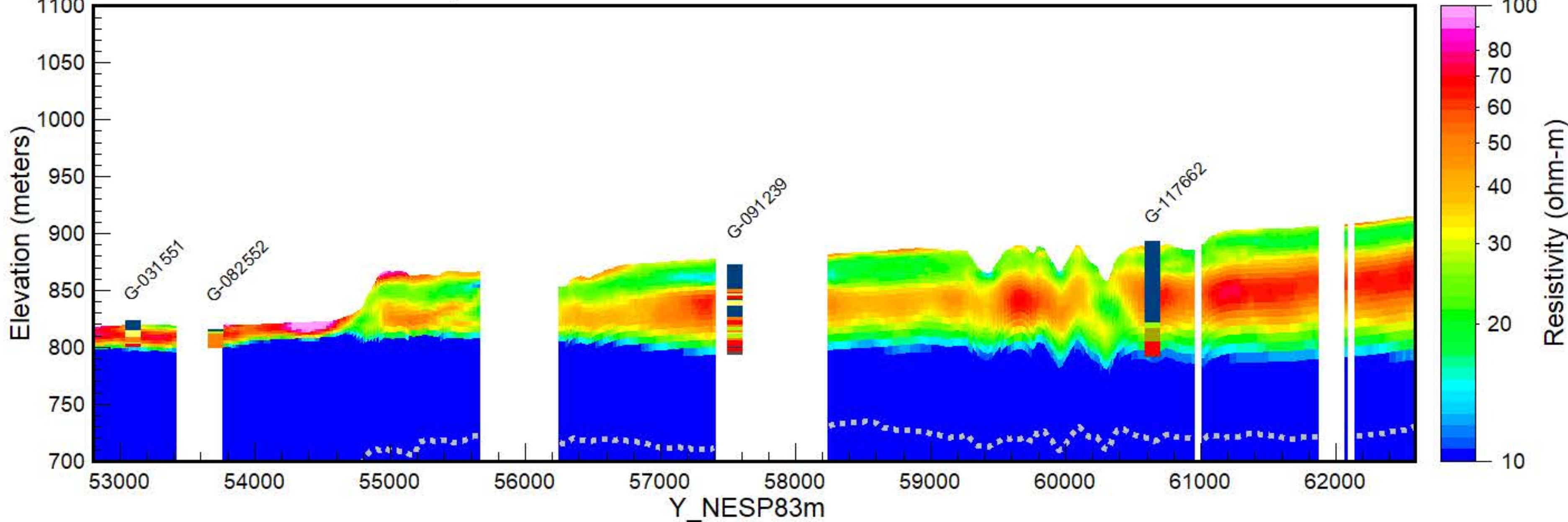
Flight Path Line L110901



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L110901



- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020.

The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection.

The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020.

The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure.

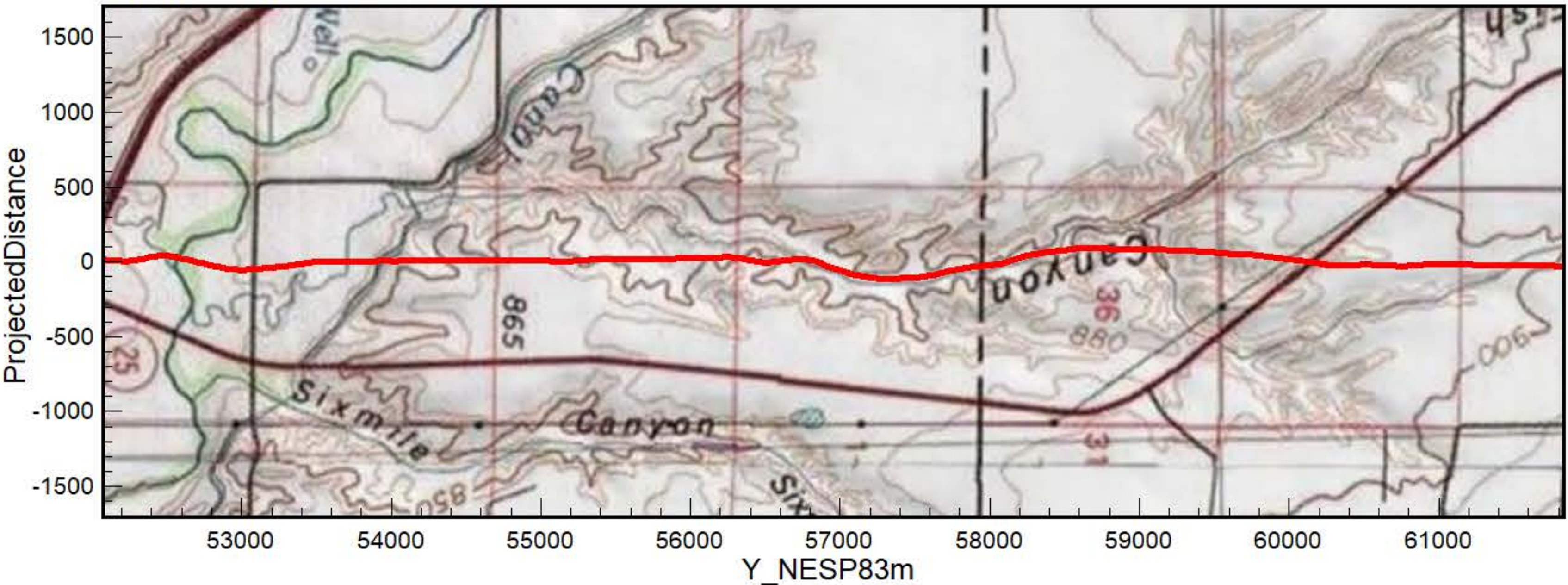
Prepared for the MRNRD by Aqua Geo Frameworks, LLC.

The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

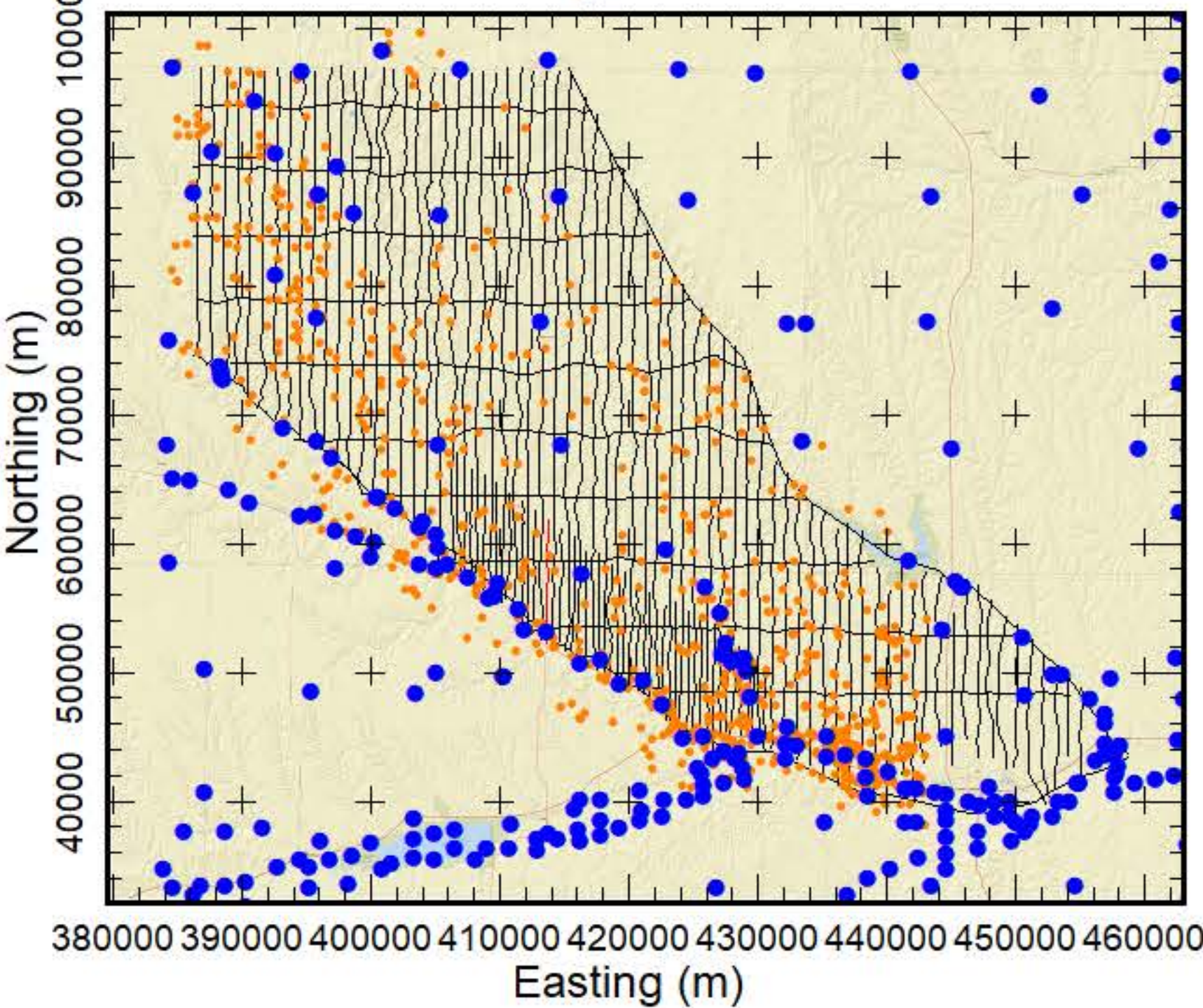




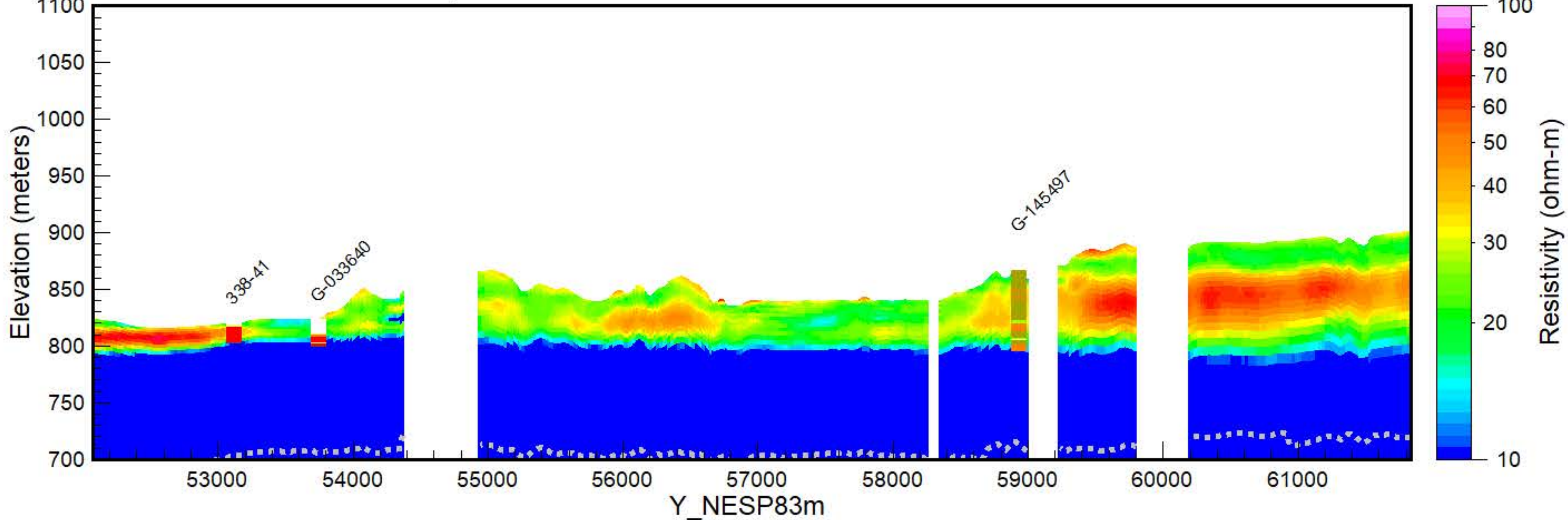
Flight Path Line L111001



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L111001



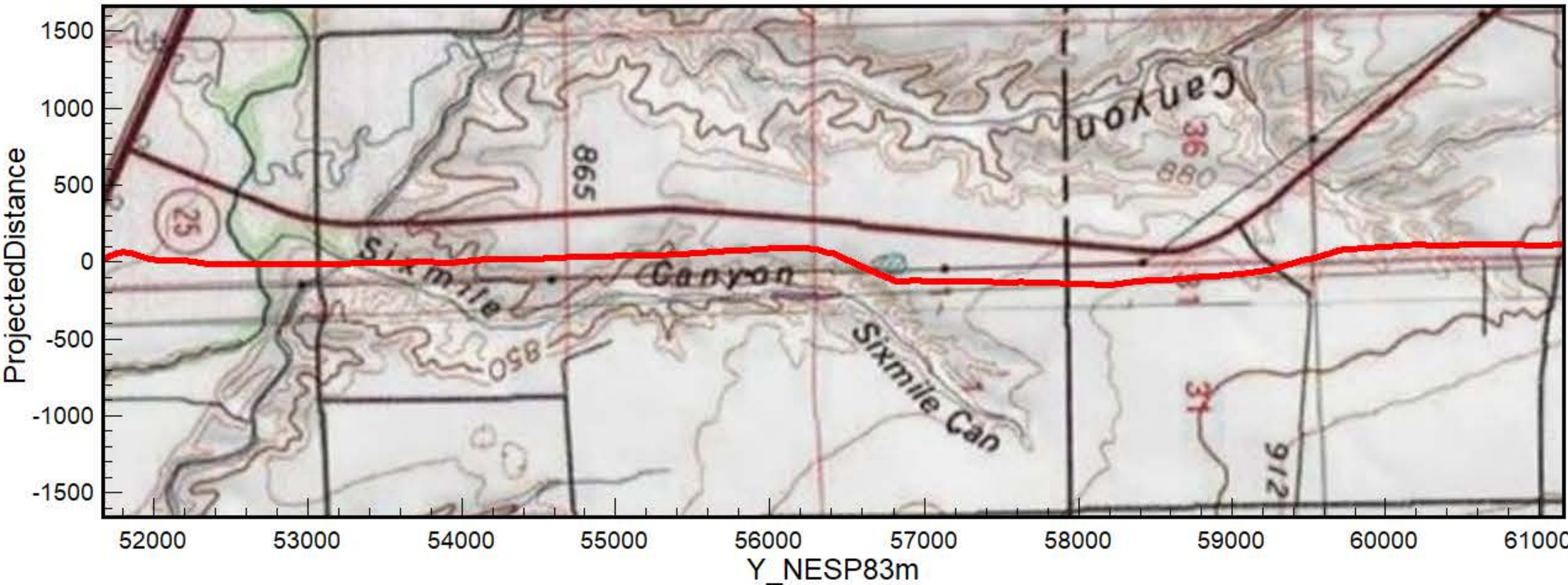
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

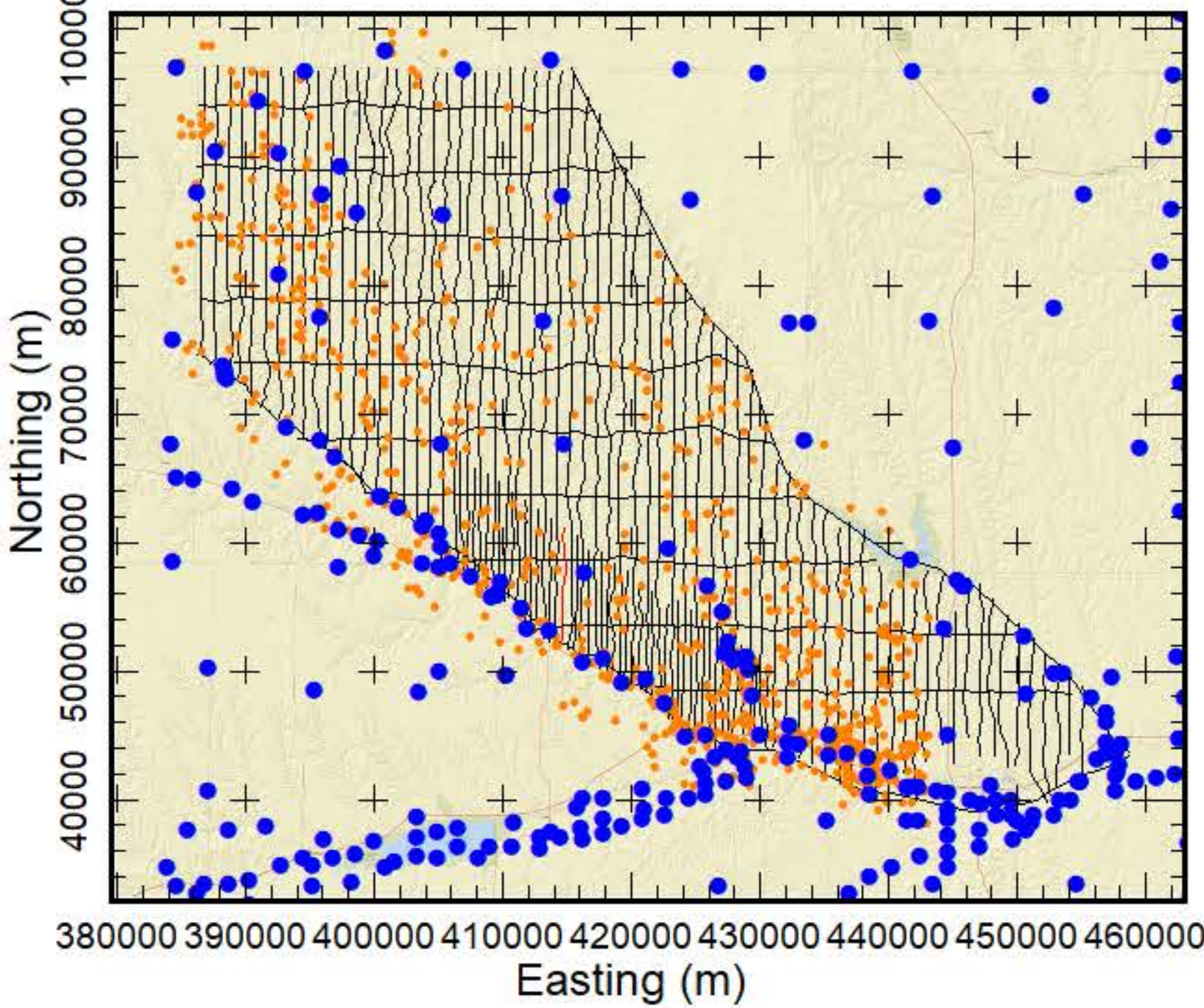




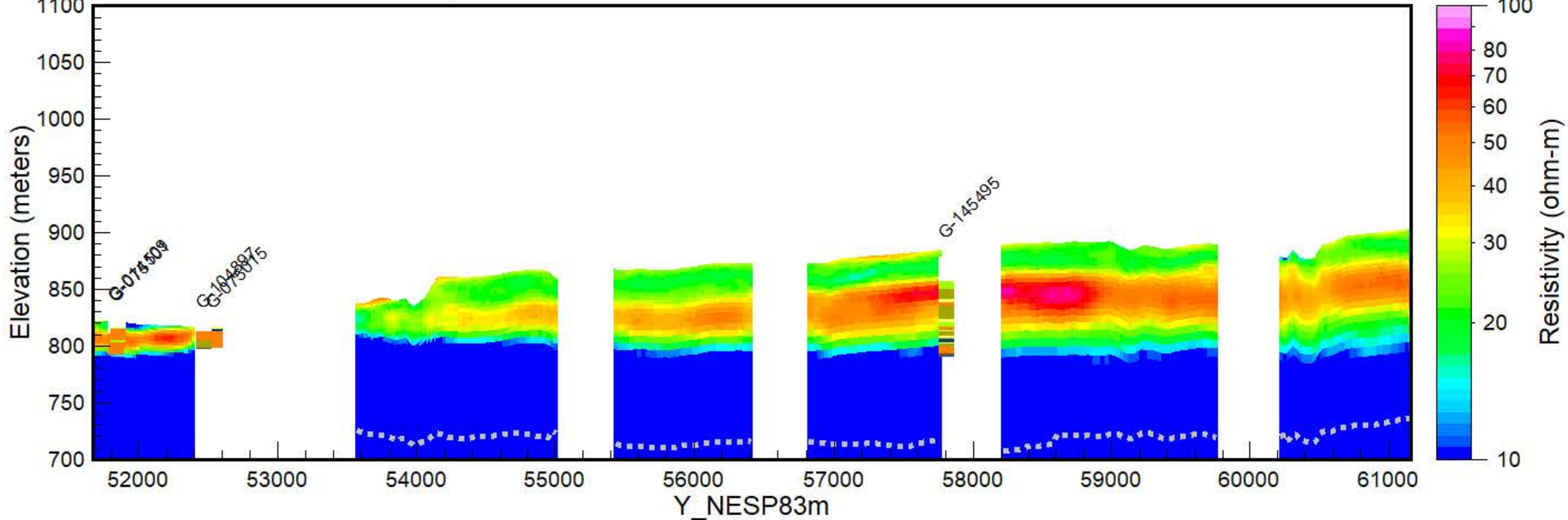
Flight Path Line L111101



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L111101



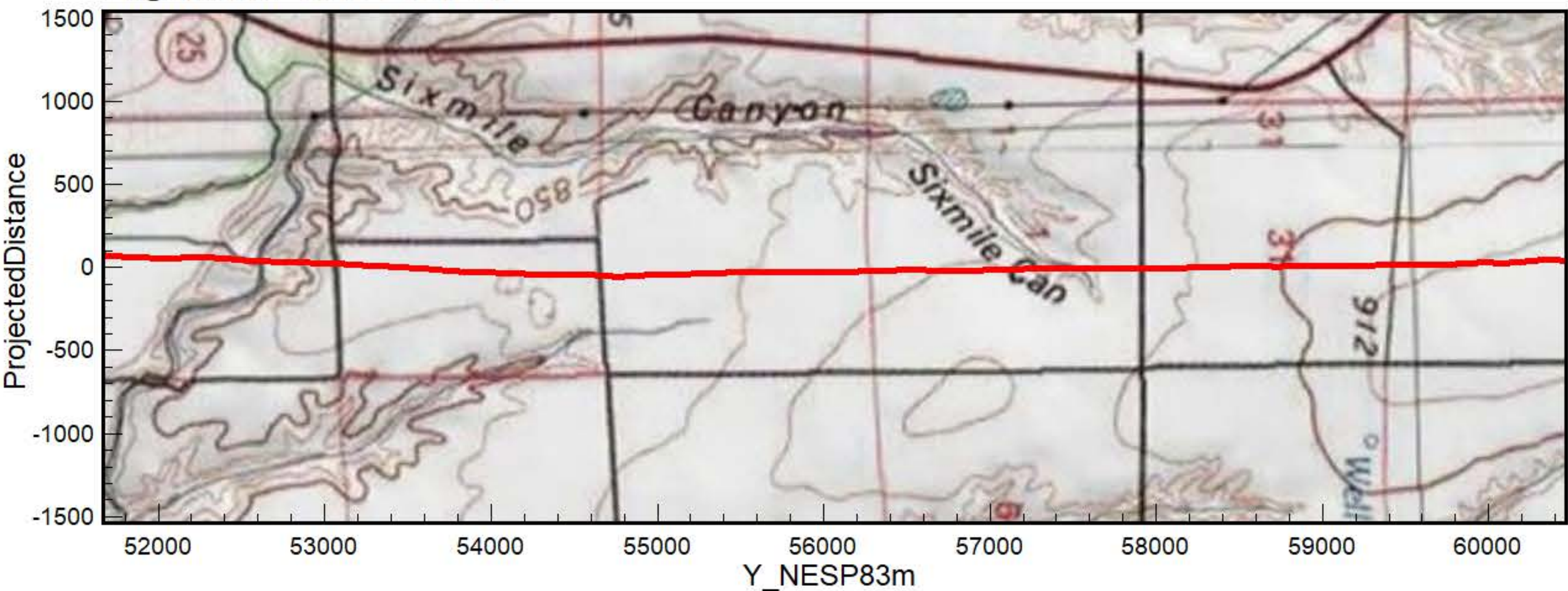
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

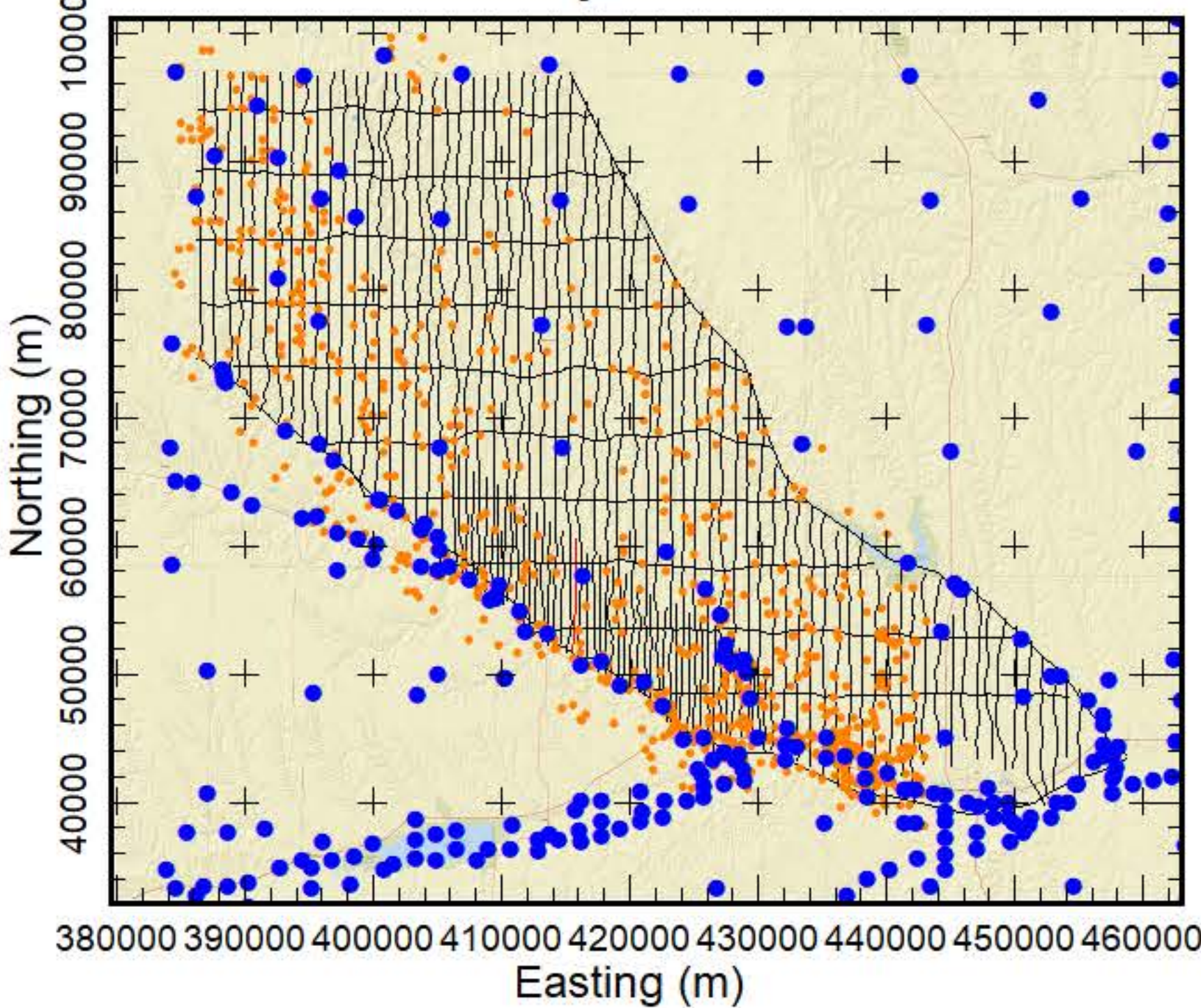




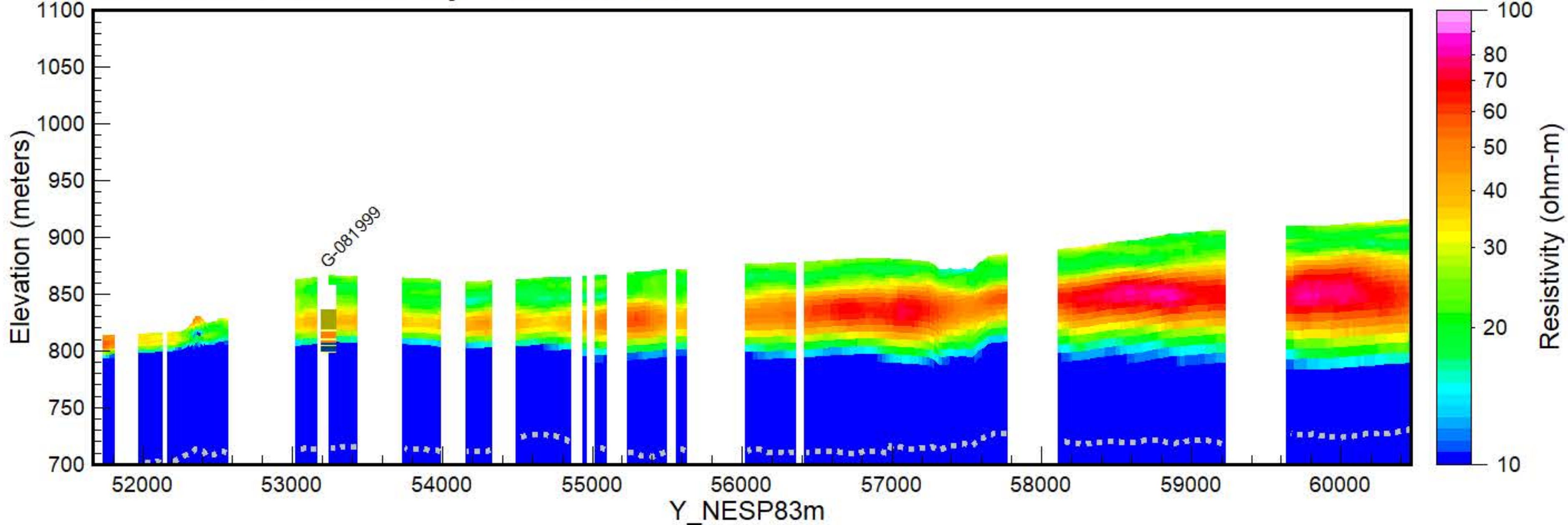
Flight Path Line L111201



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L111201



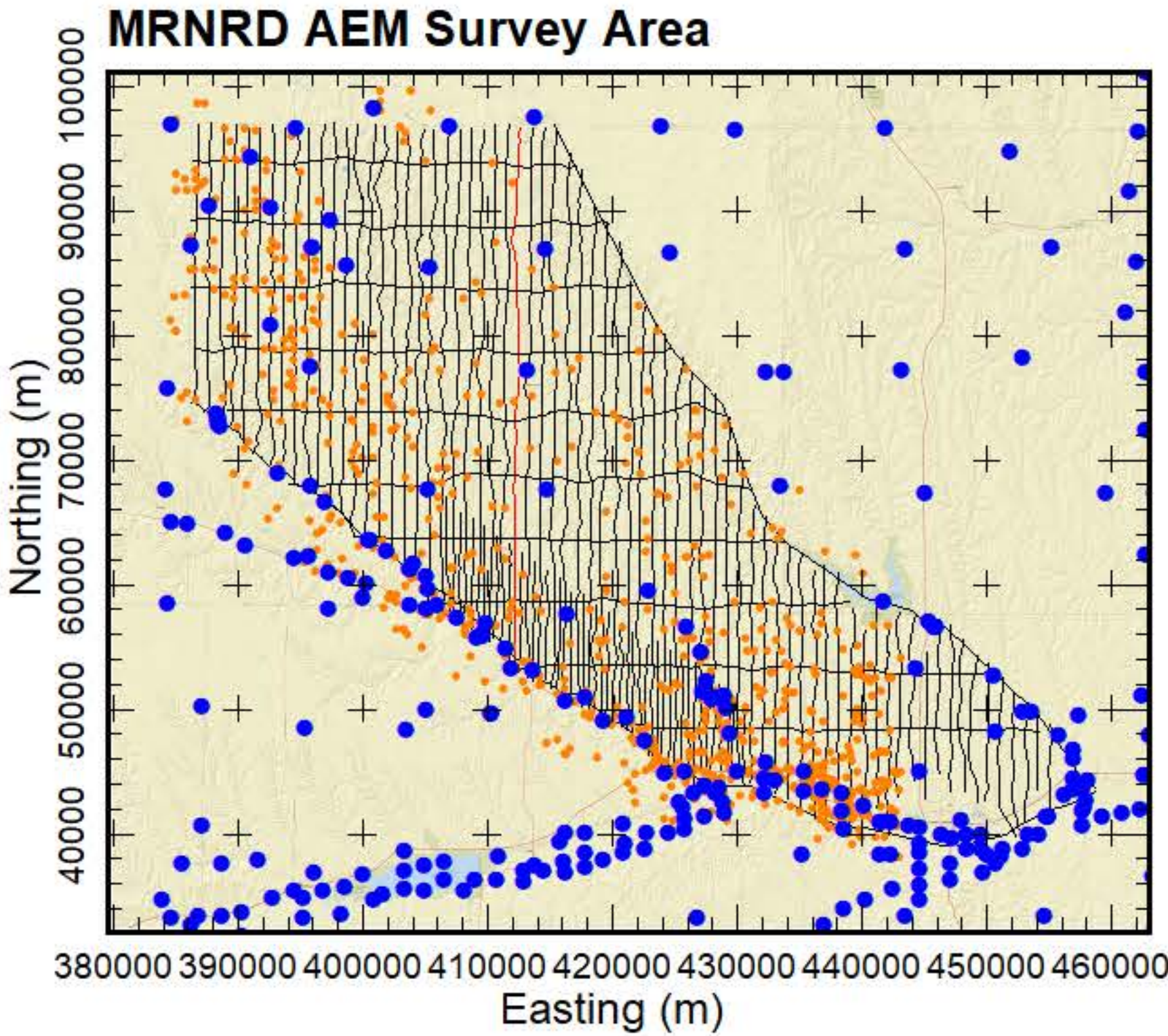
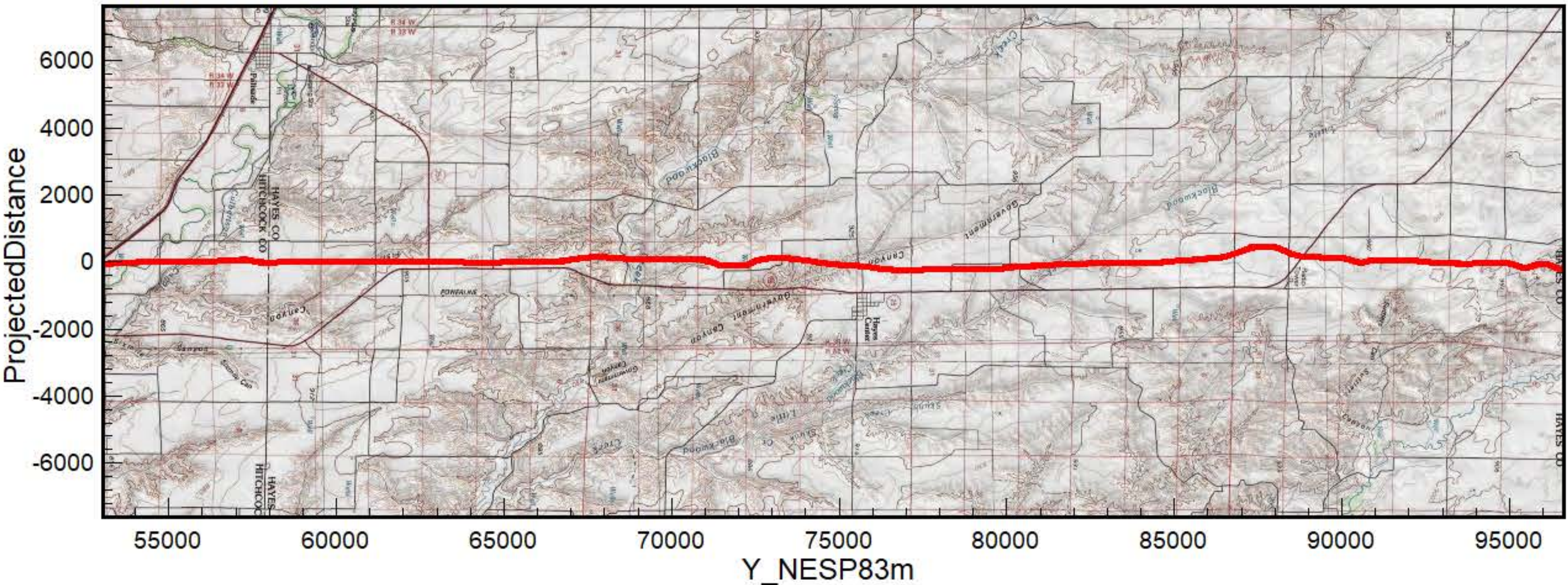
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

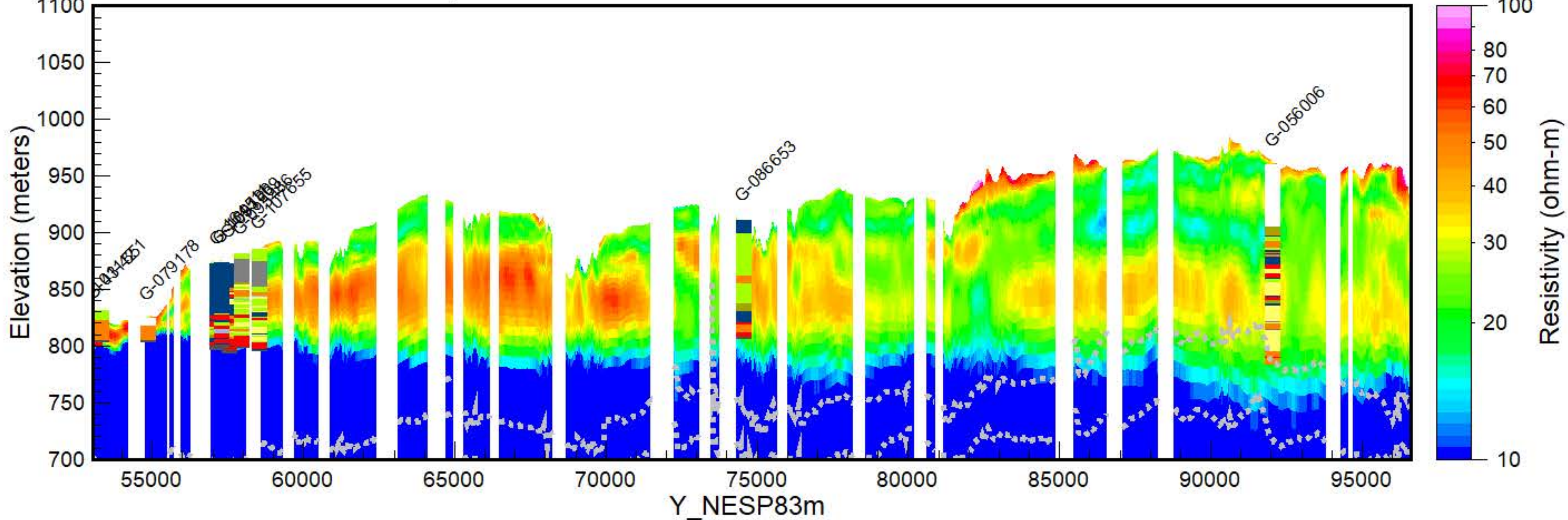




Flight Path Line L111202



AEM Inversion Resistivity Line L111202



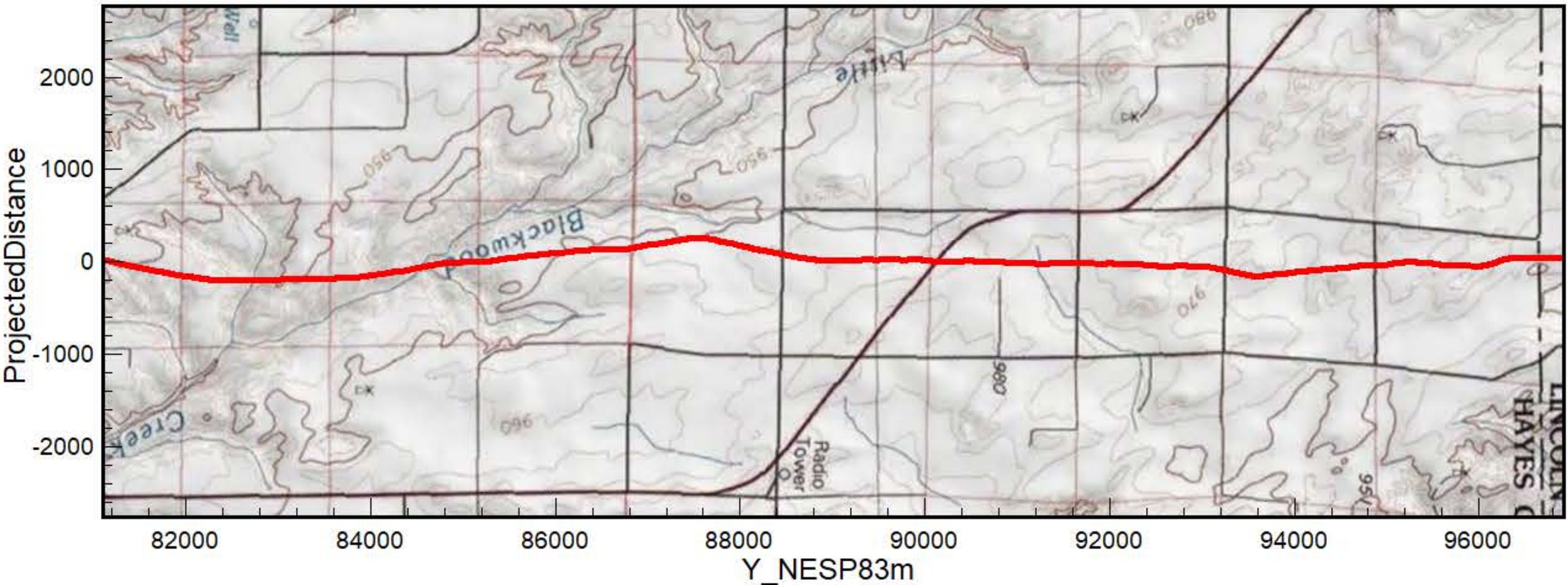
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Grave
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

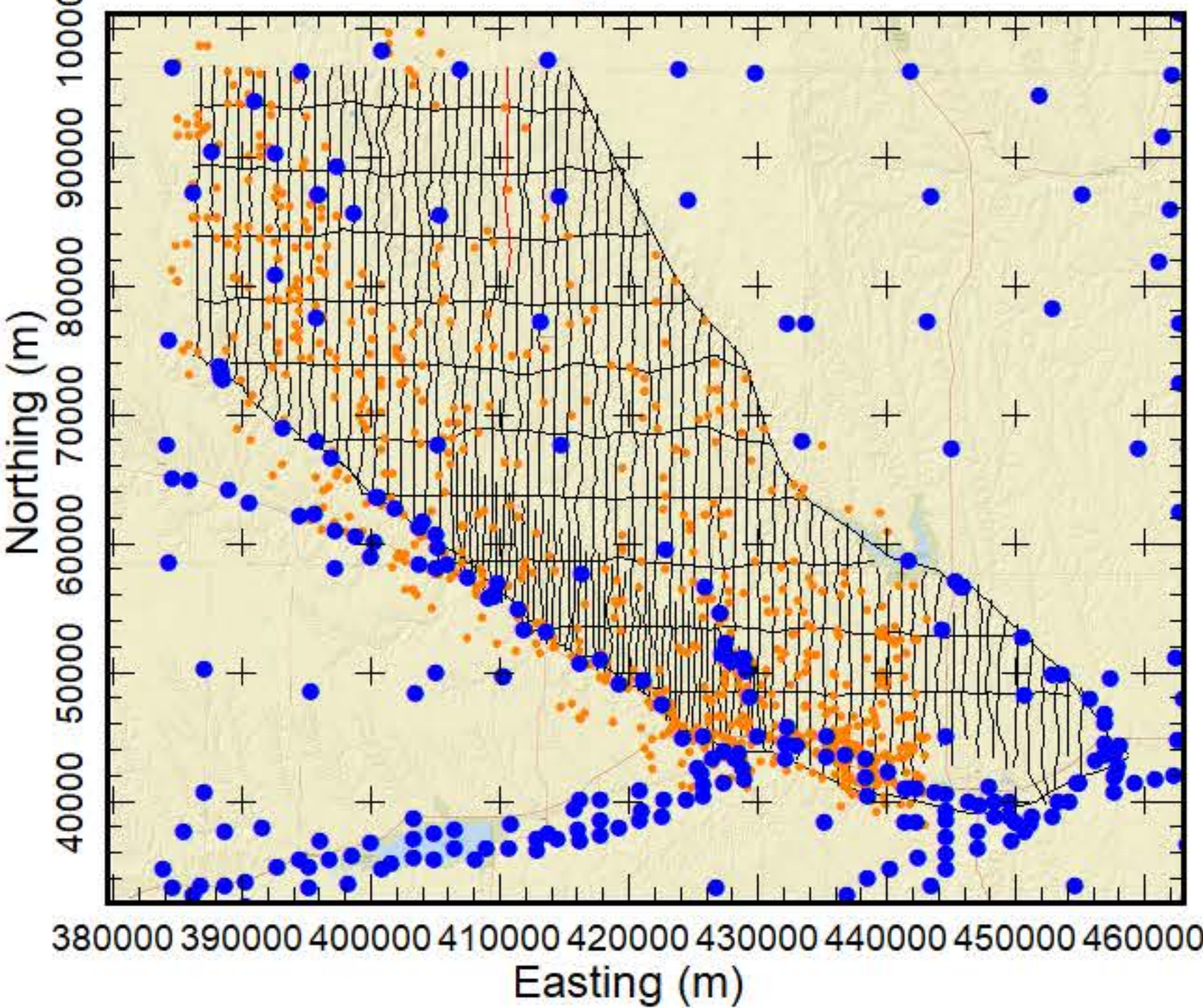




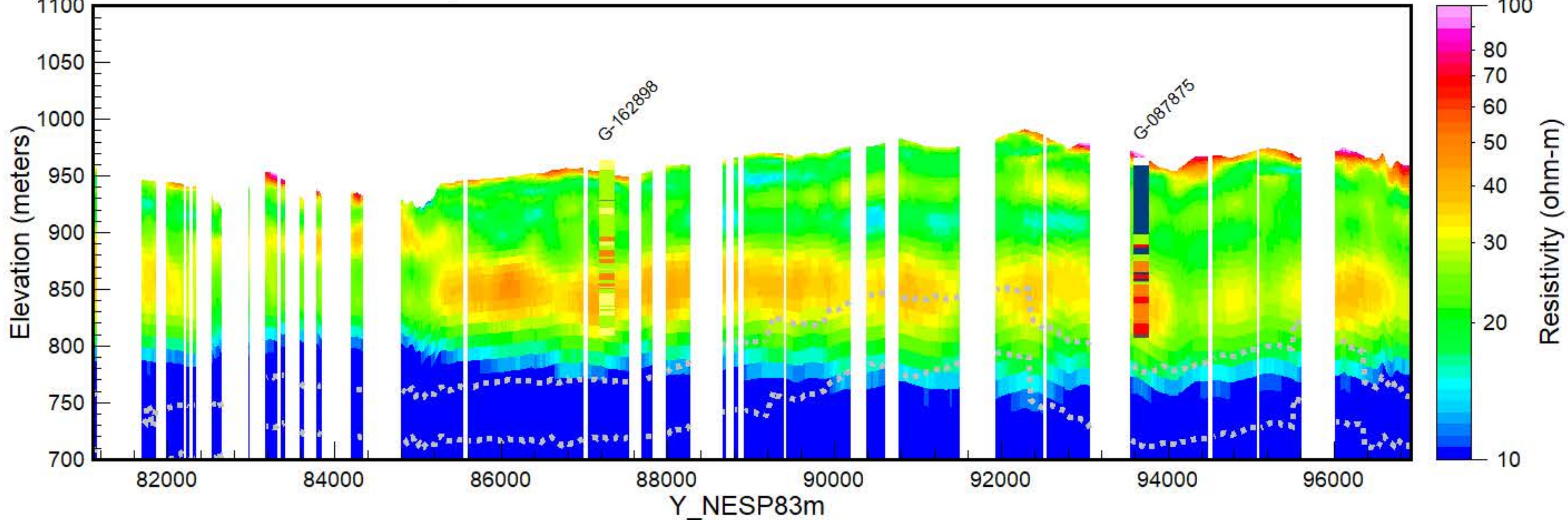
Flight Path Line L111203



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L111203



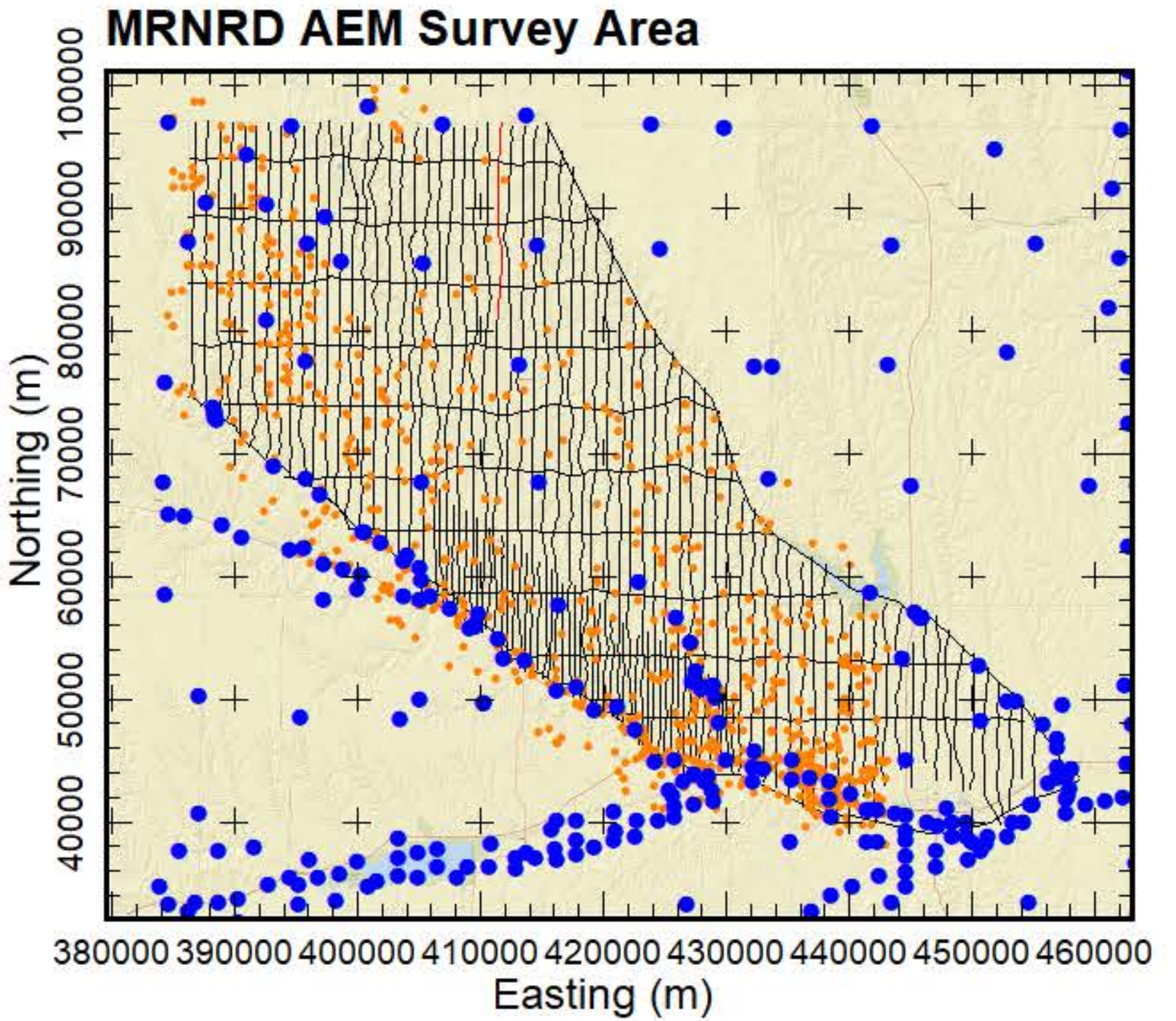
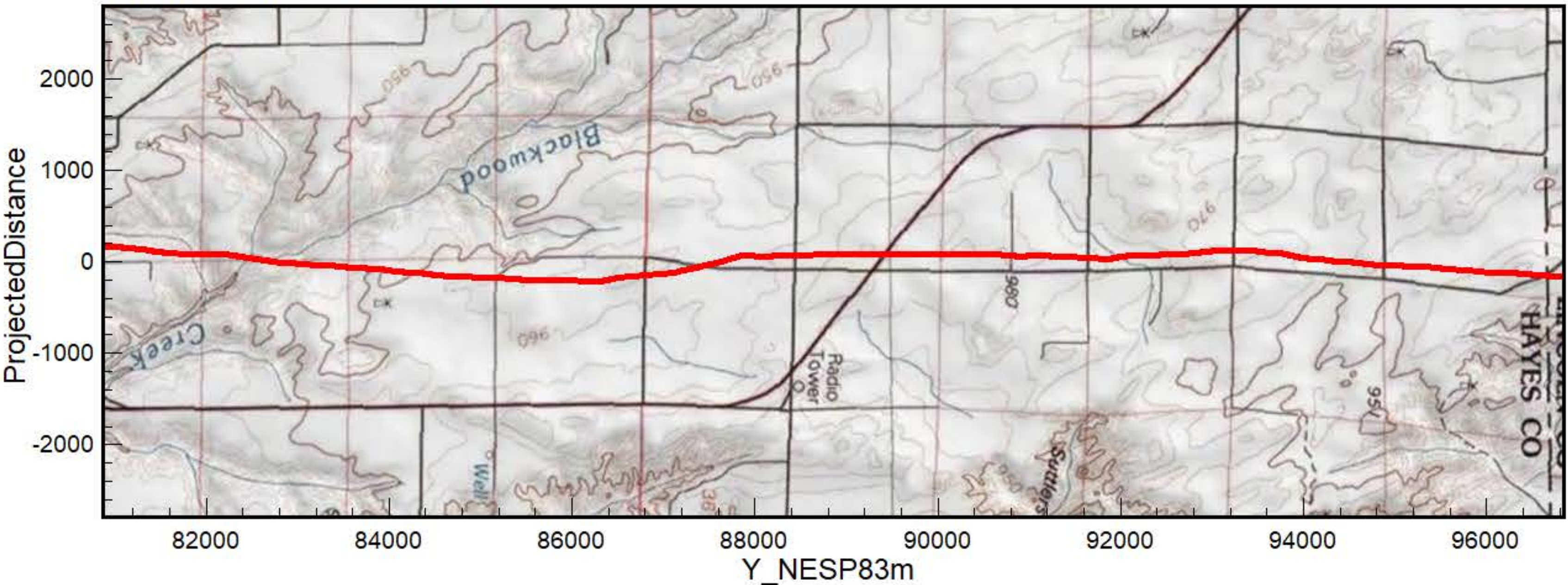
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Grave
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

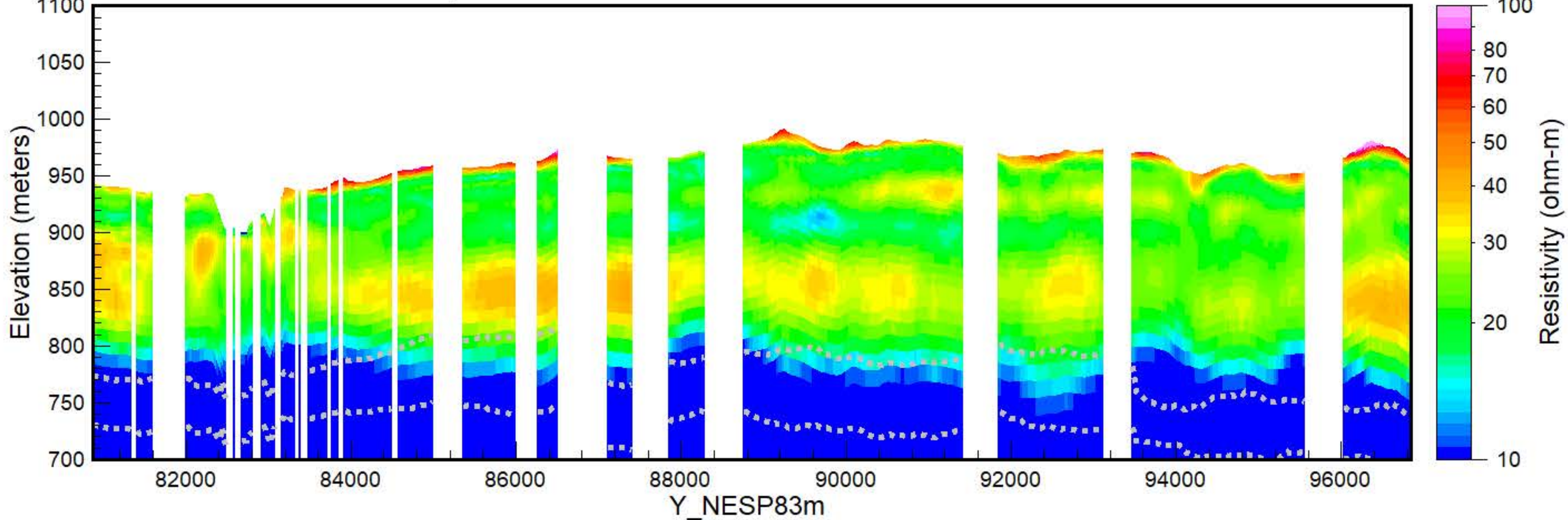




Flight Path Line L111204



AEM Inversion Resistivity Line L111204



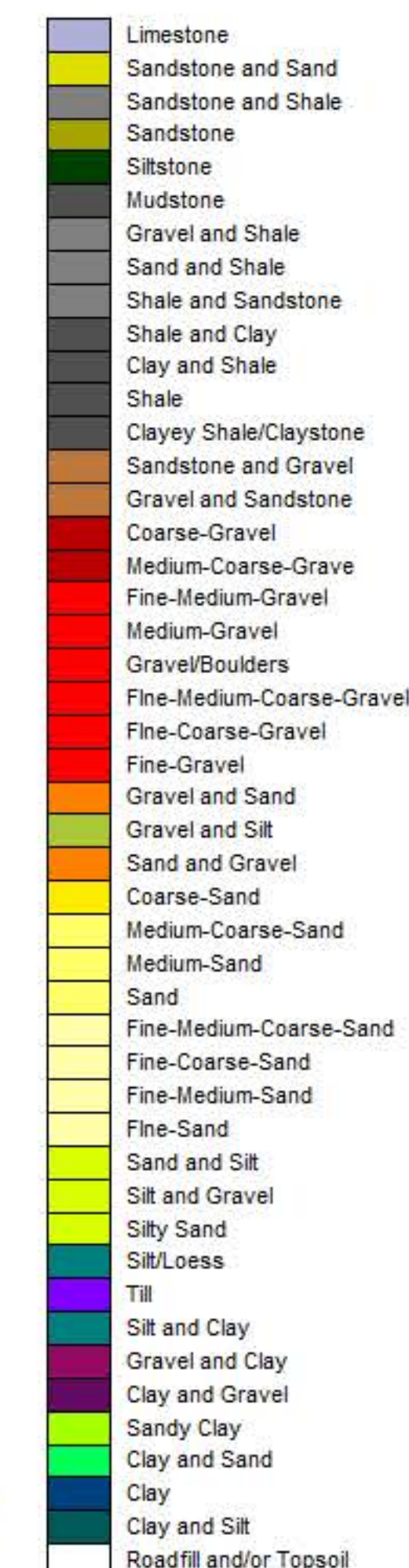
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Grave
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).



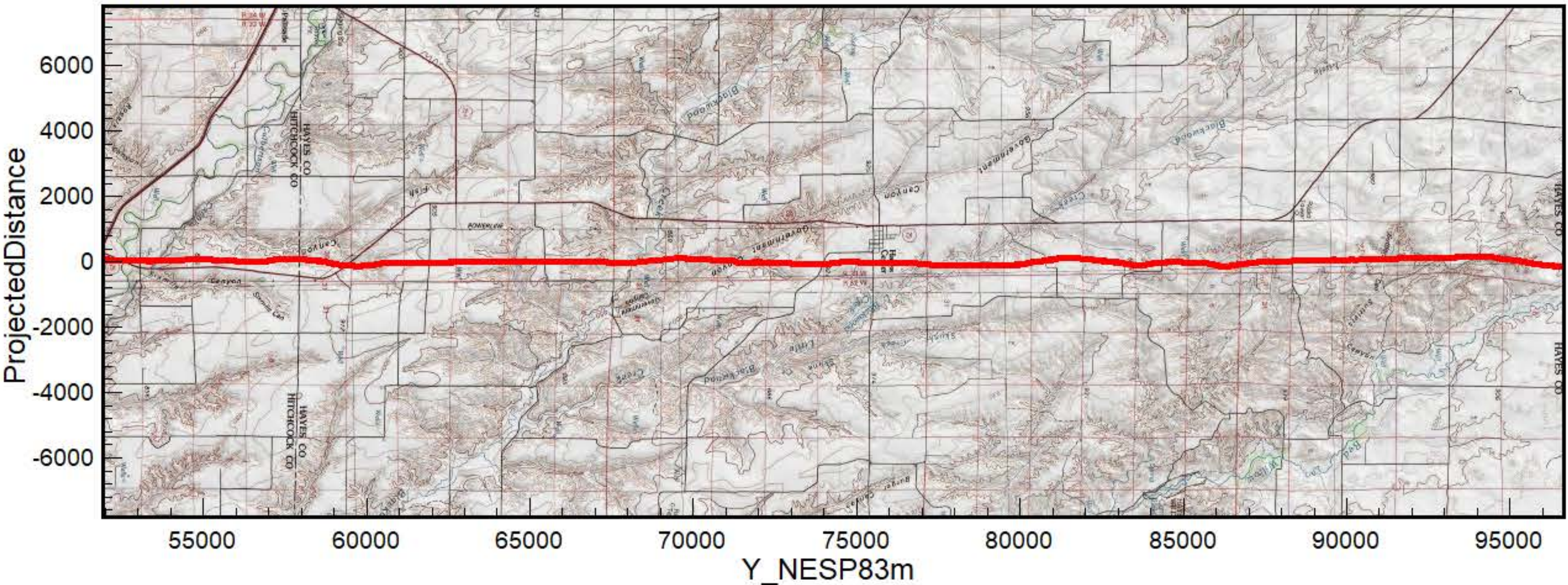
The topographic map shows the study area with a red line representing the projected distance profile. The Y-axis is labeled 'ProjectedDistance' and ranges from -6000 to 6000. The X-axis is labeled 'Y NESP83m' and ranges from 55000 to 95000. The map includes contour lines, roads, and labels for various locations such as Hayes Co, Hitchcock Co, and Hayes Center. A red line is drawn across the map, indicating the projected distance profile.

The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

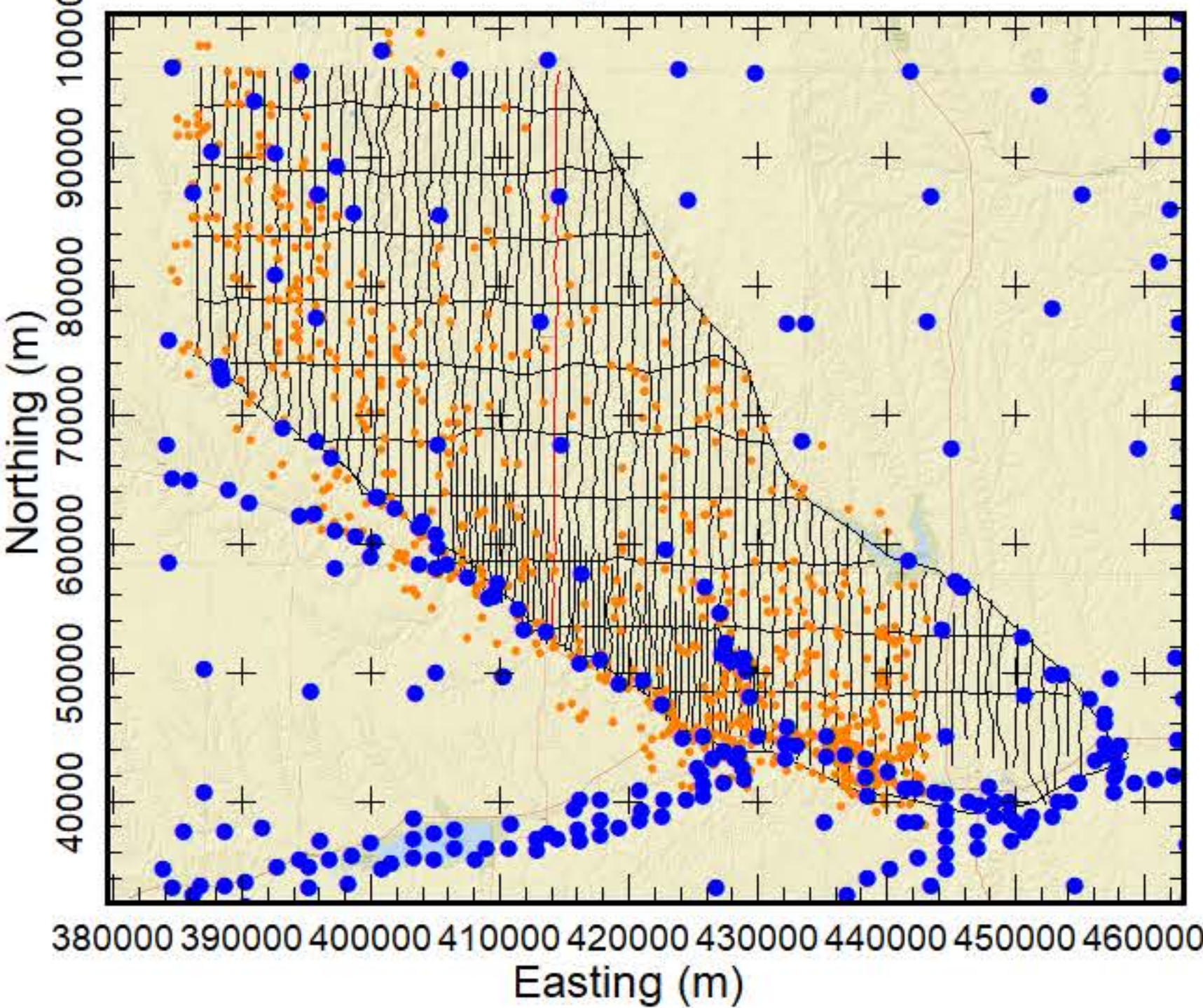




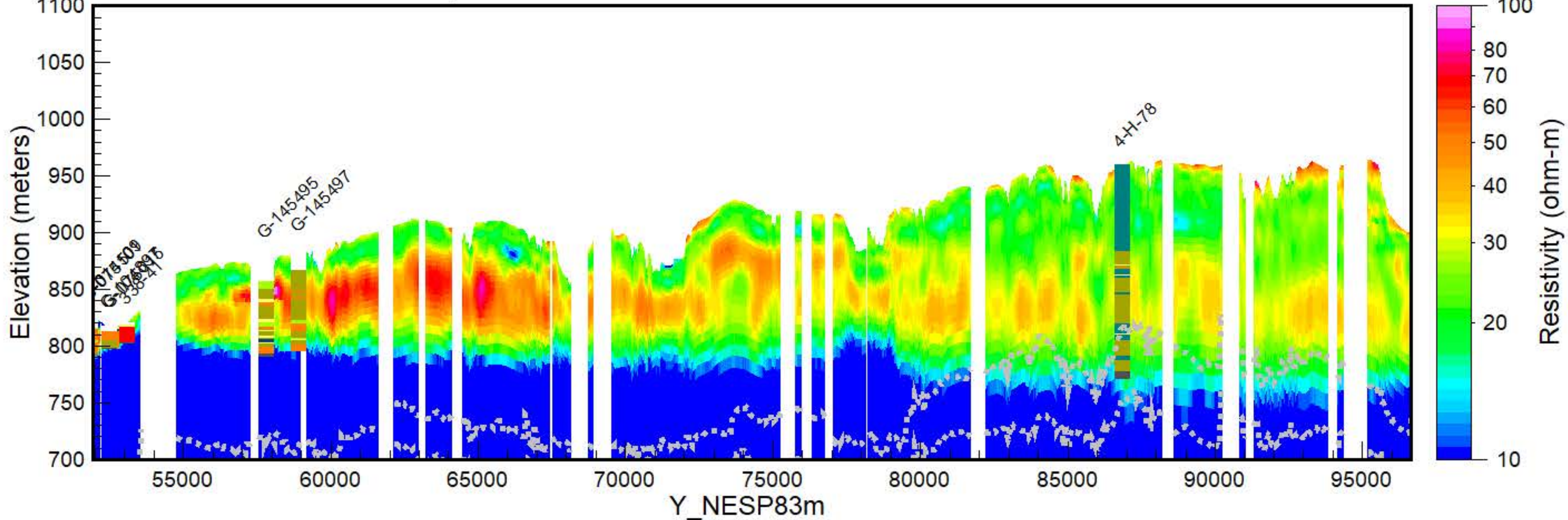
Flight Path Line L111206



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L111206



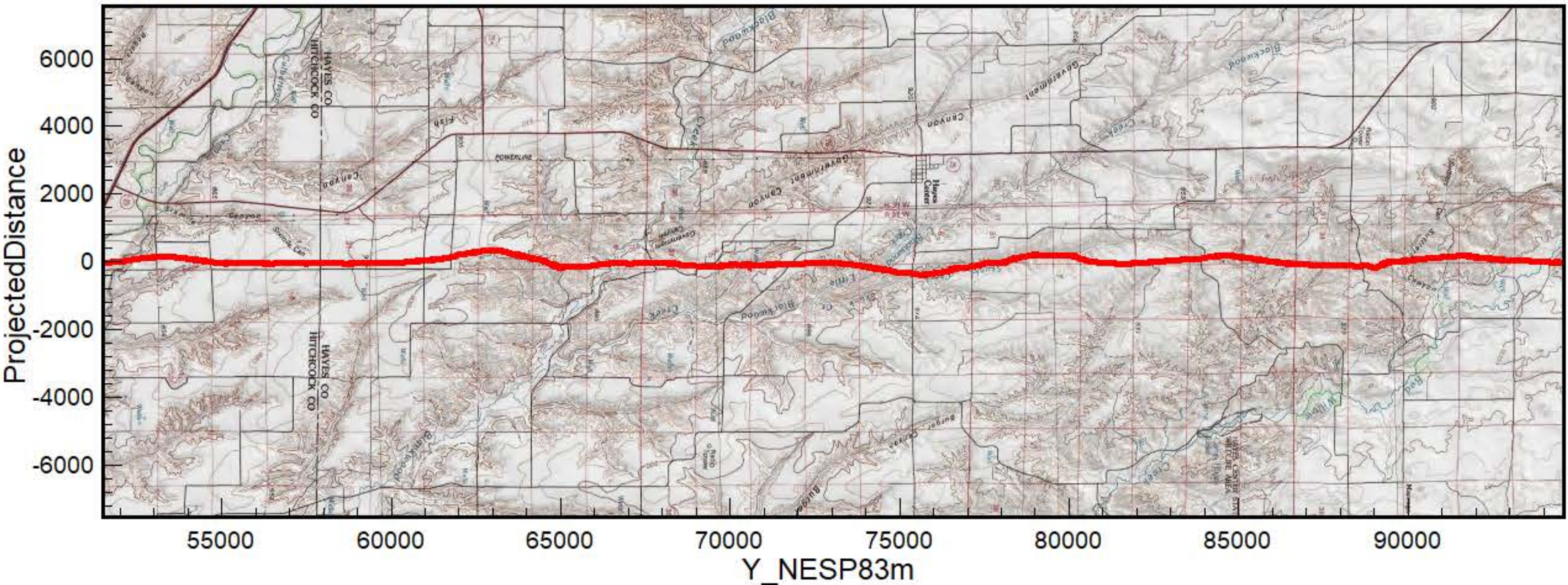
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Grave
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

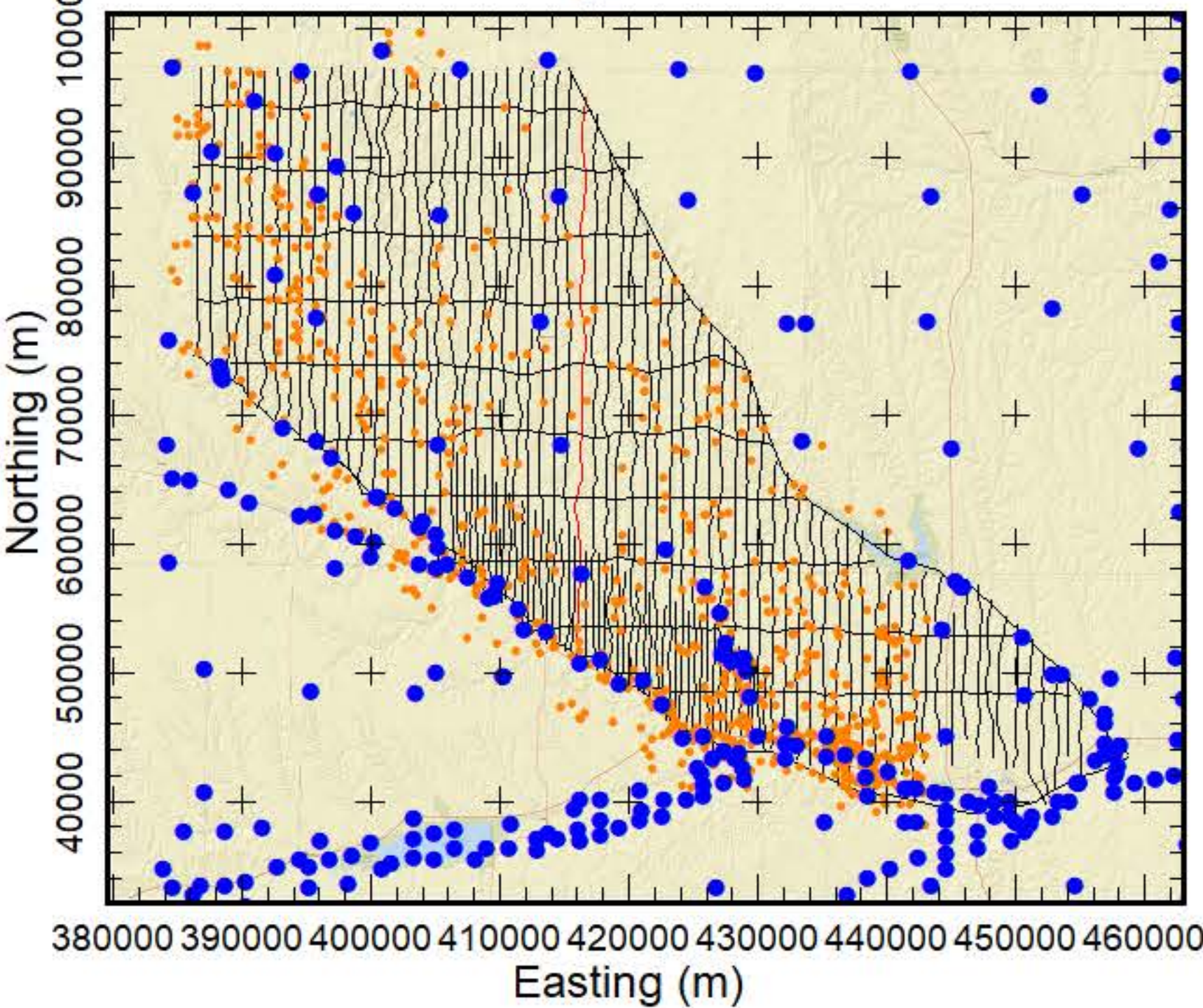




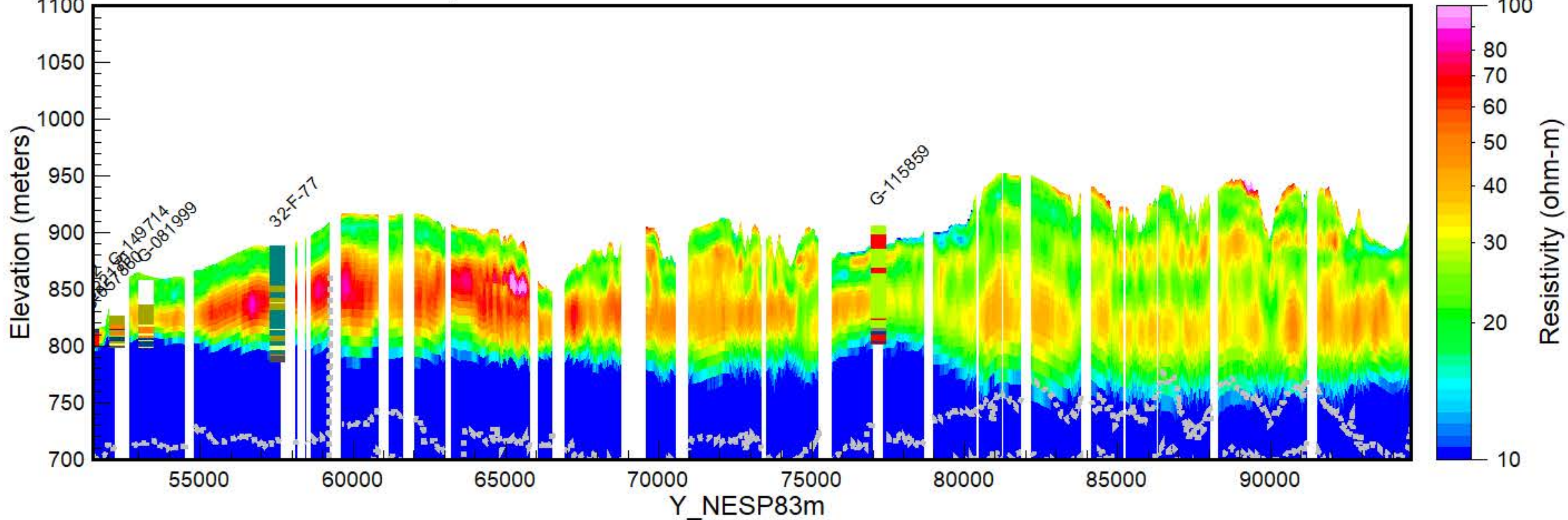
Flight Path Line L111207



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L111207



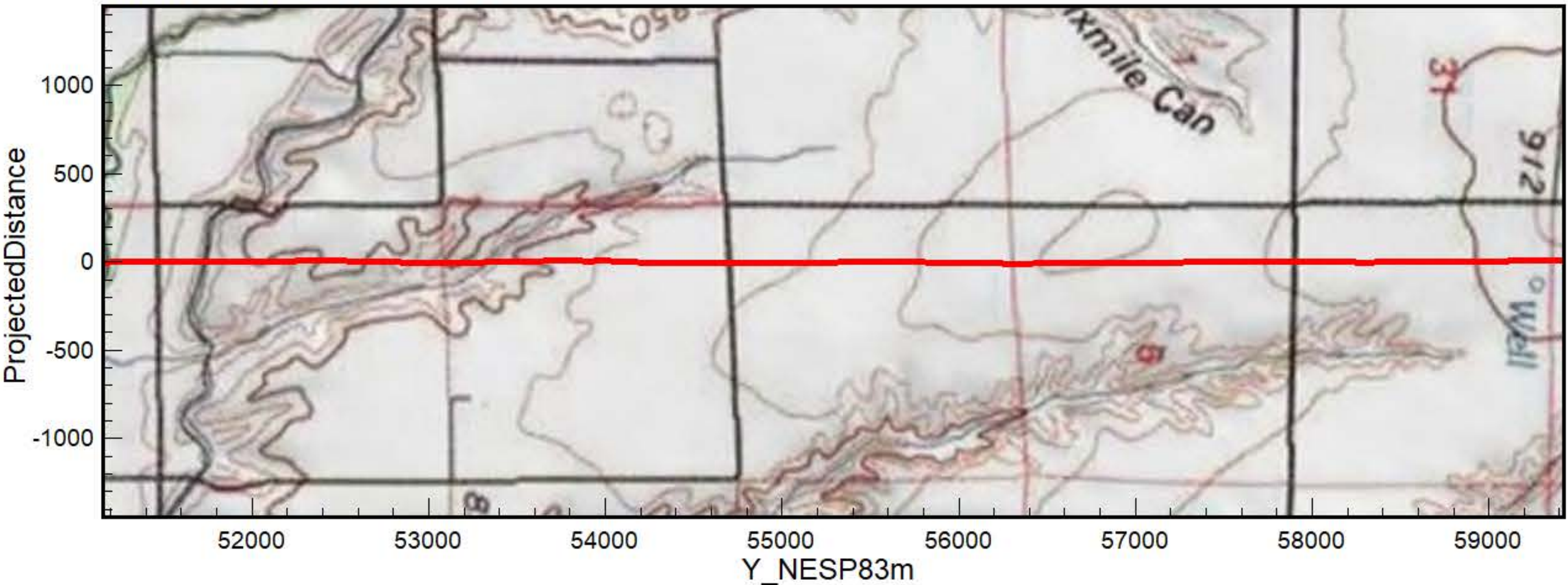
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

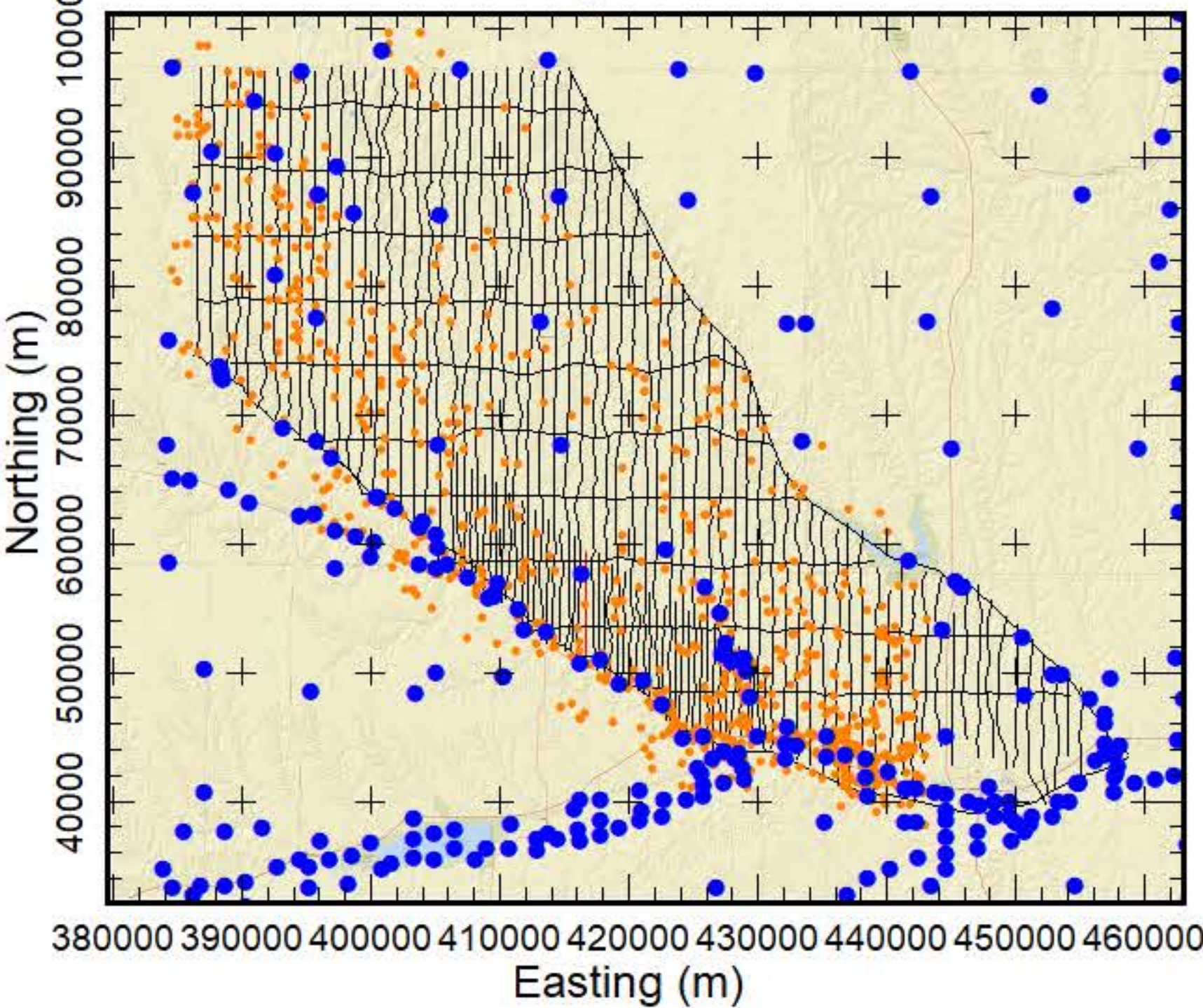




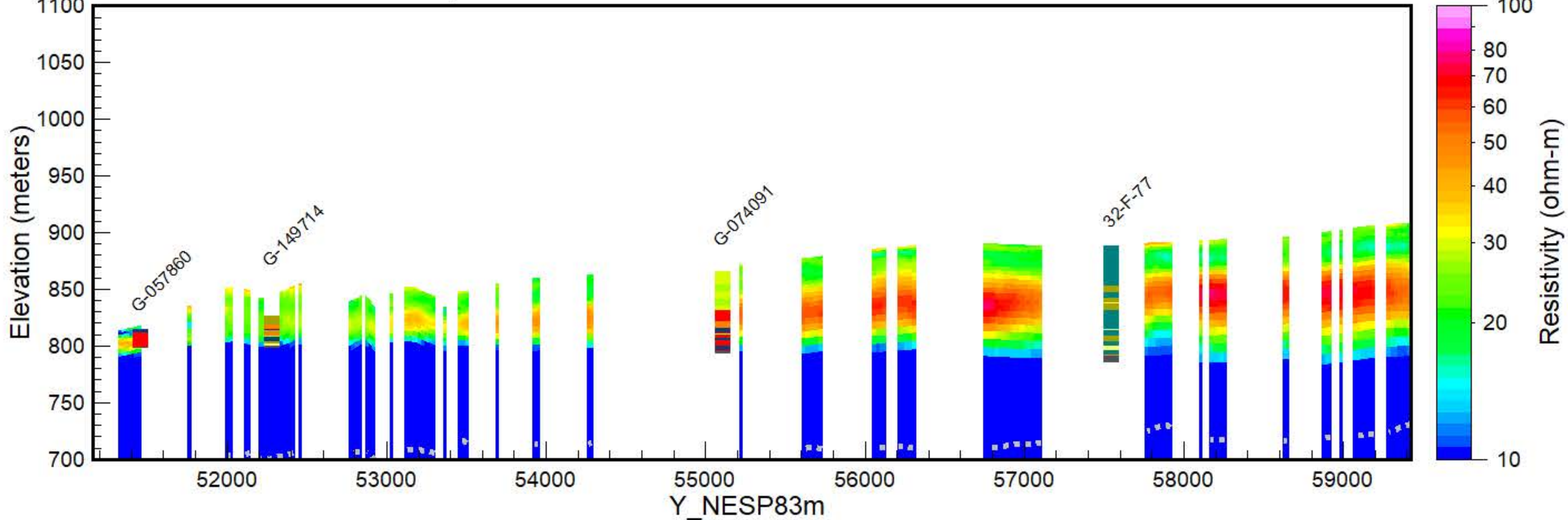
Flight Path Line L111301



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L111301



- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020.

The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection.

The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020.

The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure.

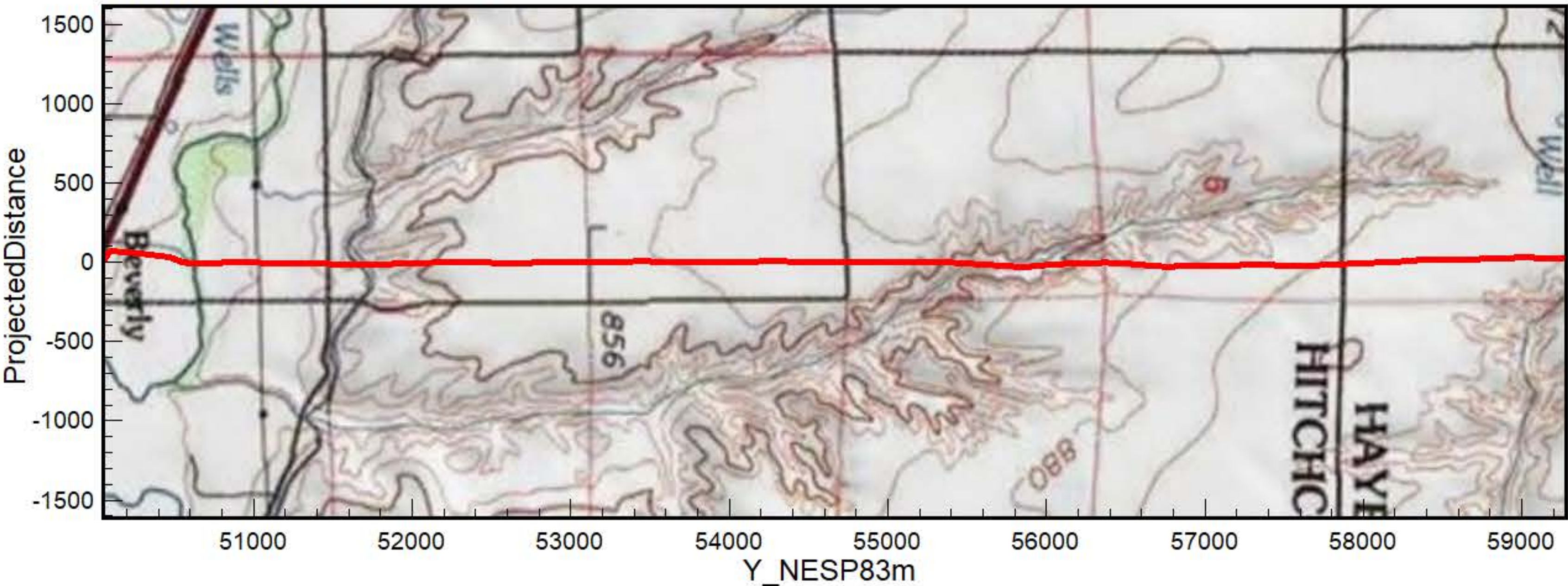
Prepared for the MRNRD by Aqua Geo Frameworks, LLC.

The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

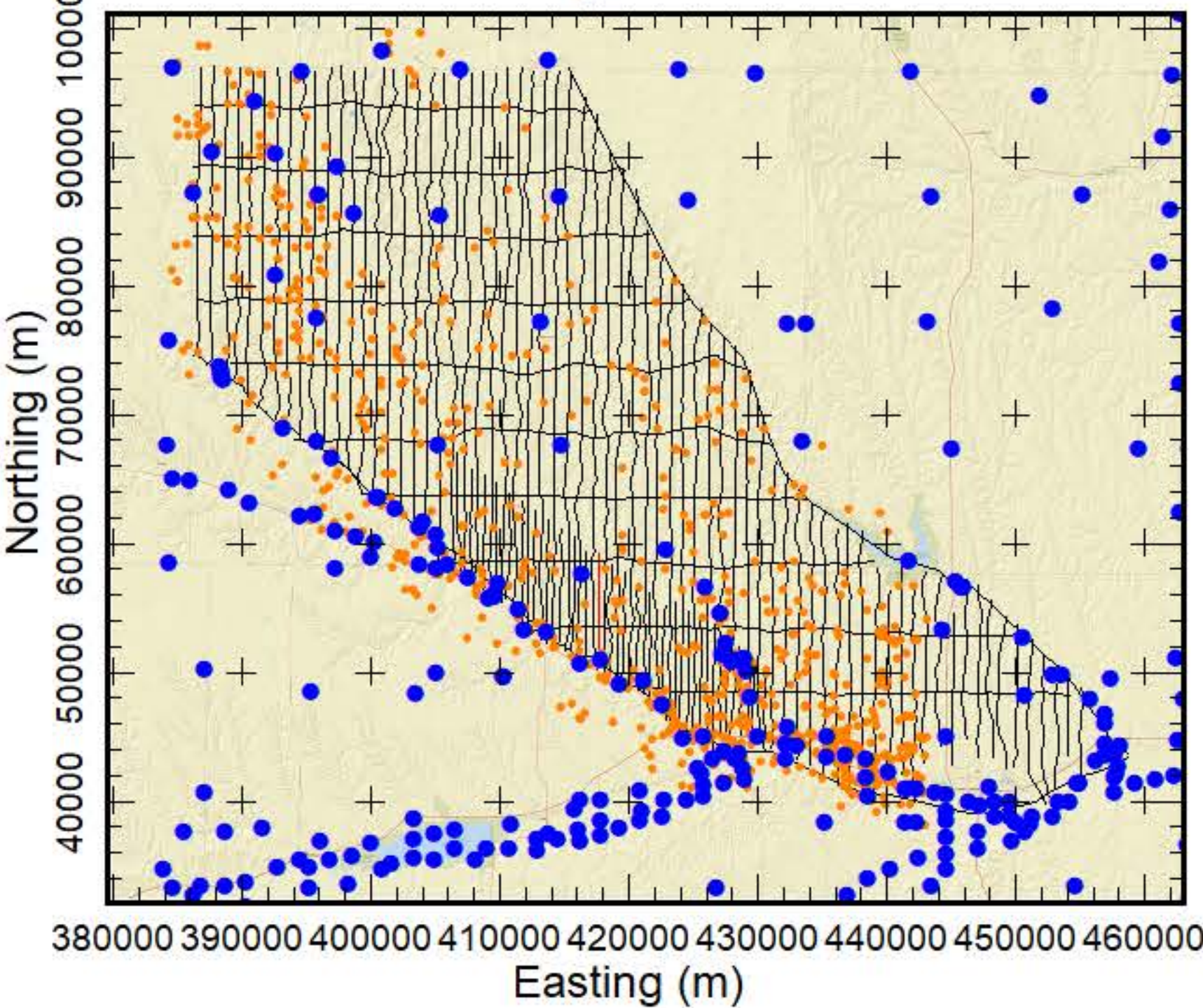




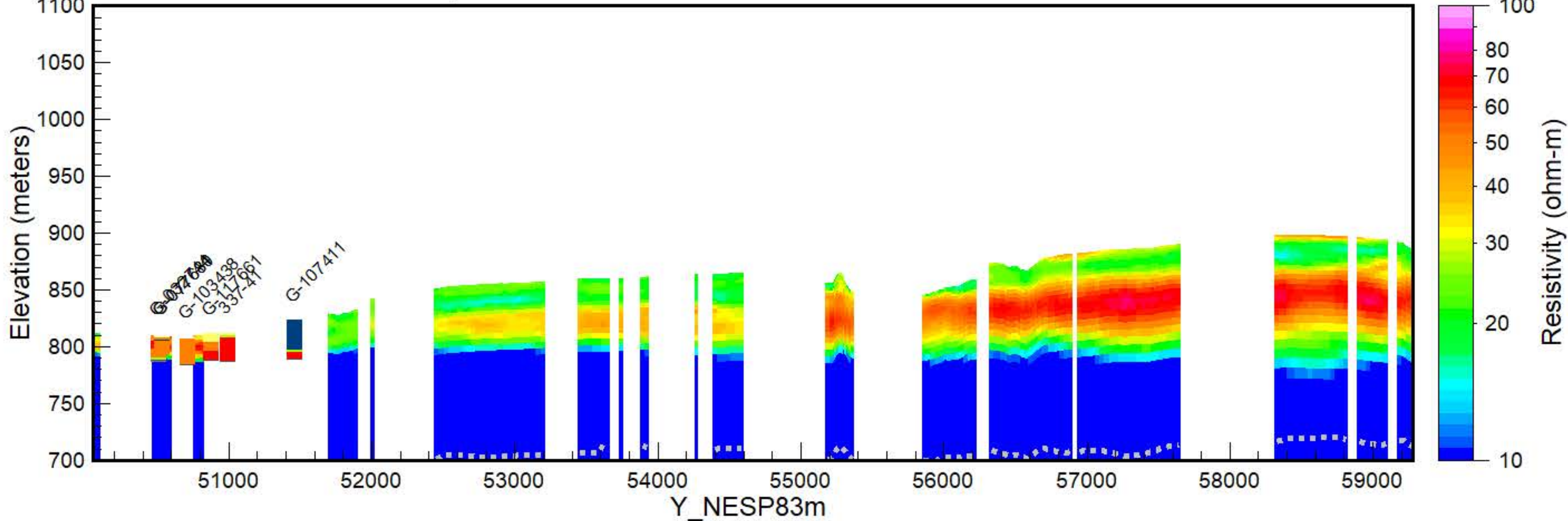
Flight Path Line L111401



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L111401



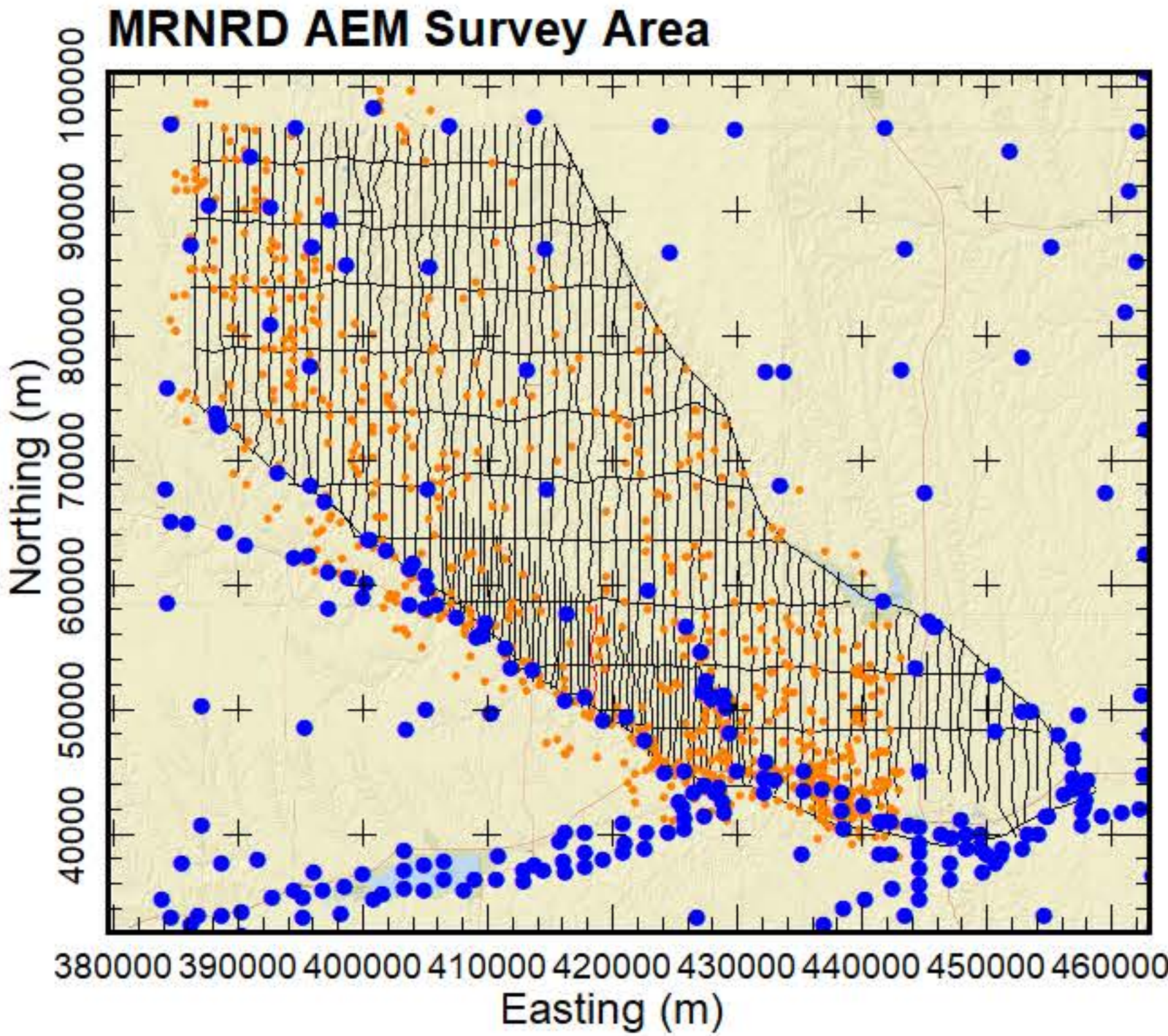
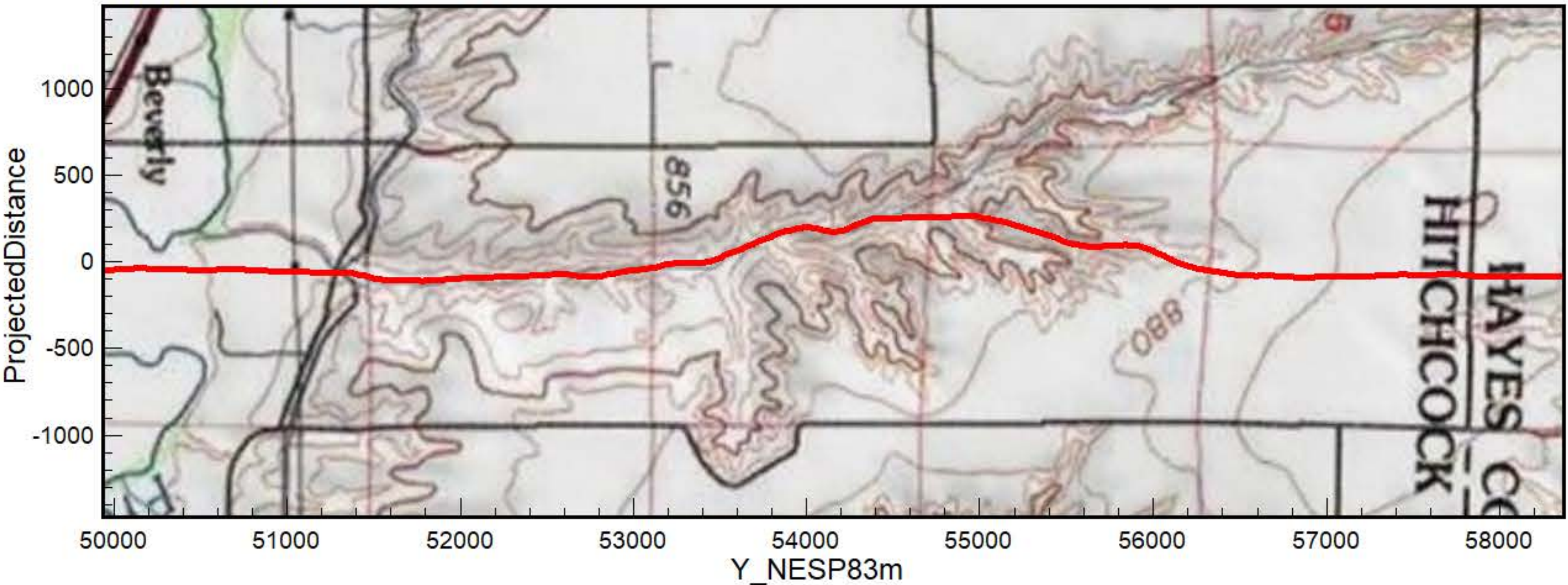
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

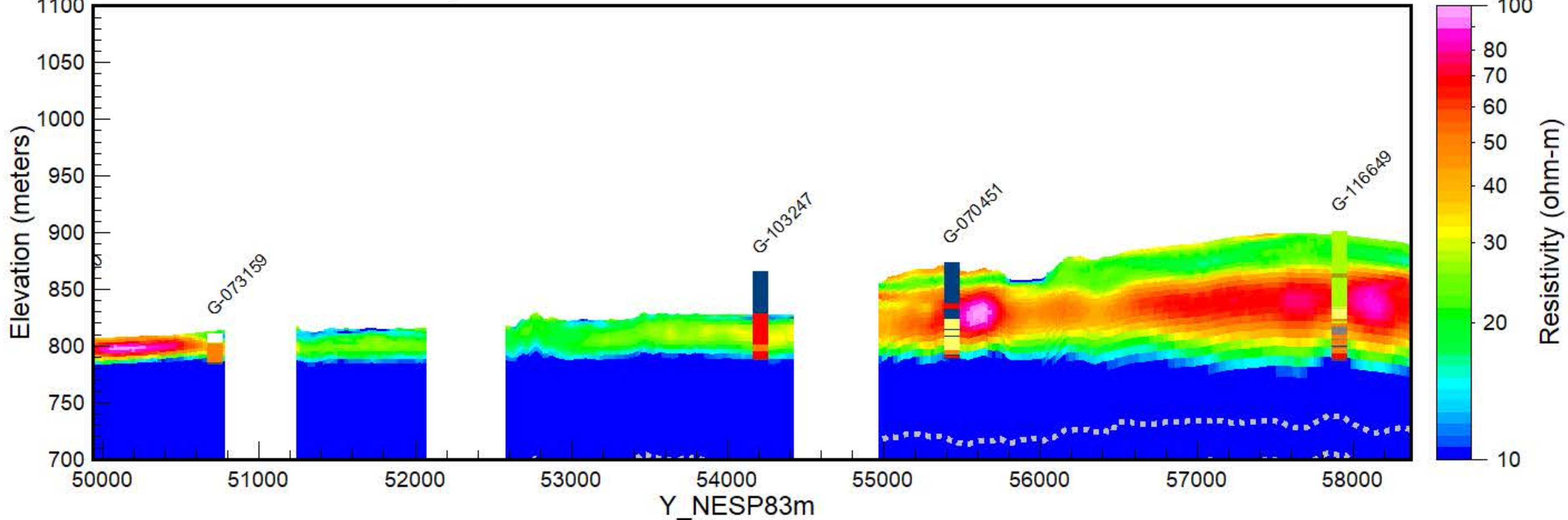




Flight Path Line L111501



AEM Inversion Resistivity Line L111501



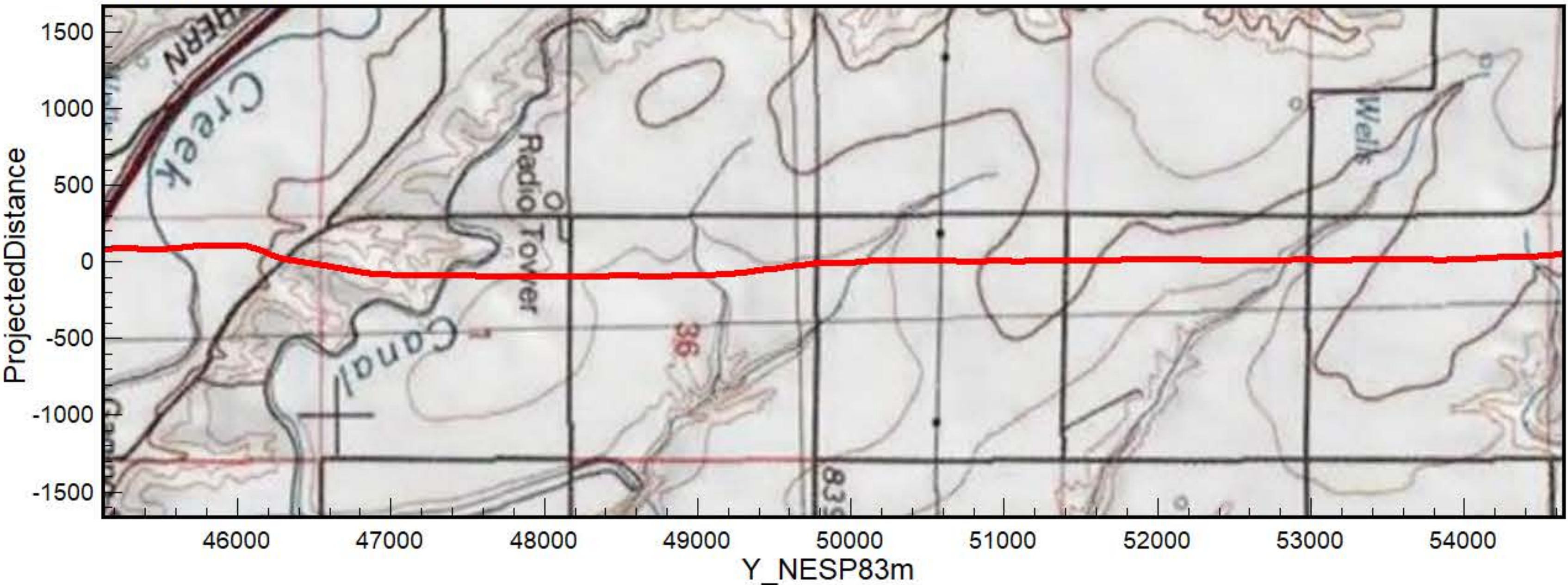
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

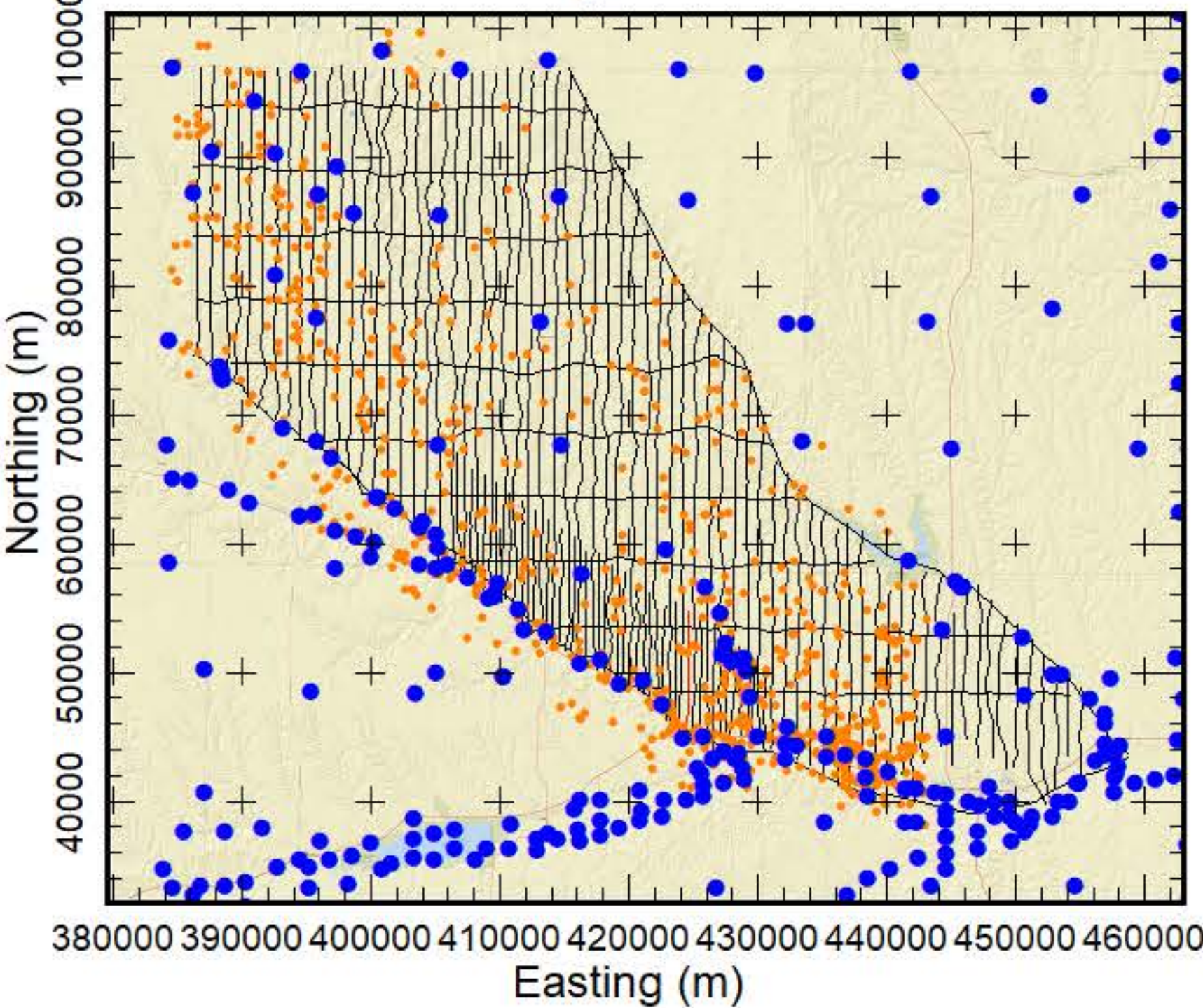




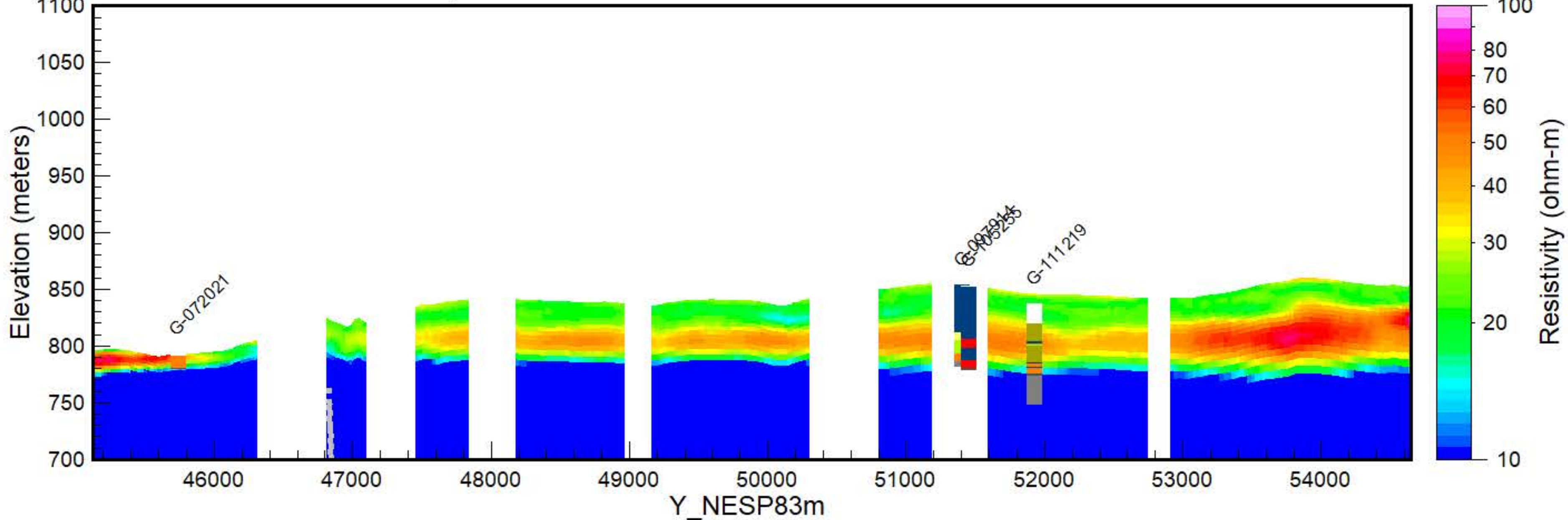
Flight Path Line L112101



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L112101



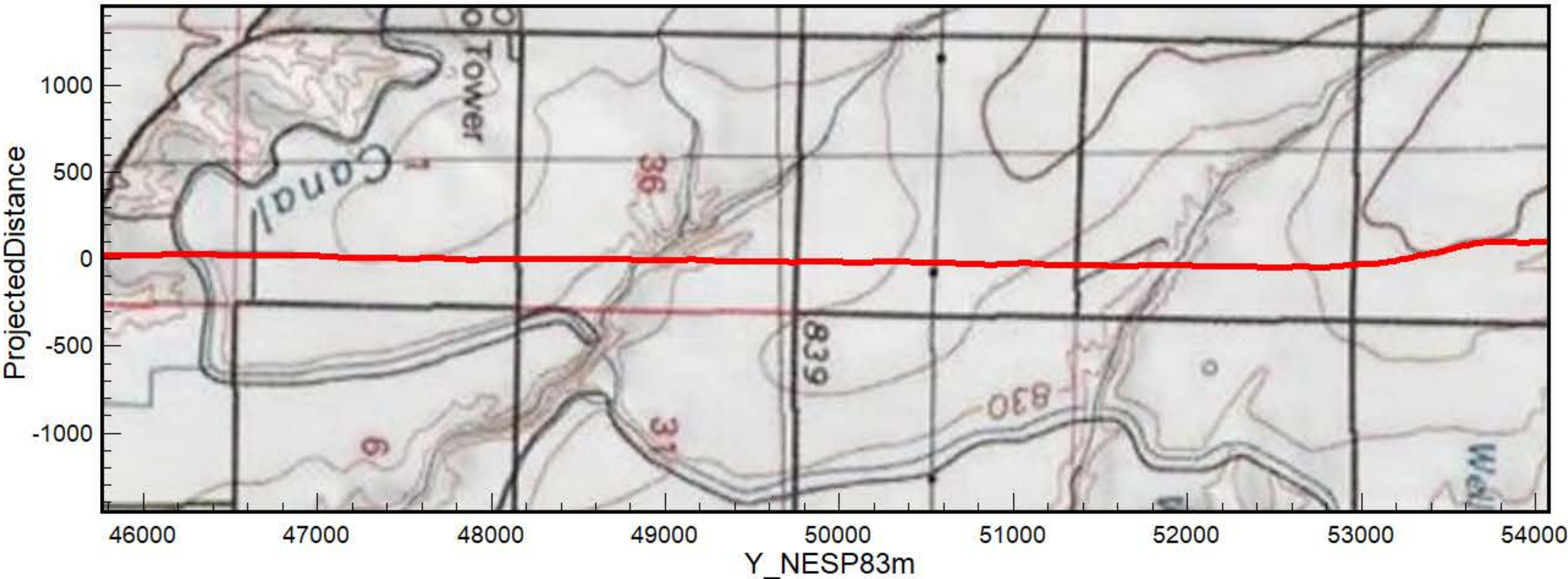
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

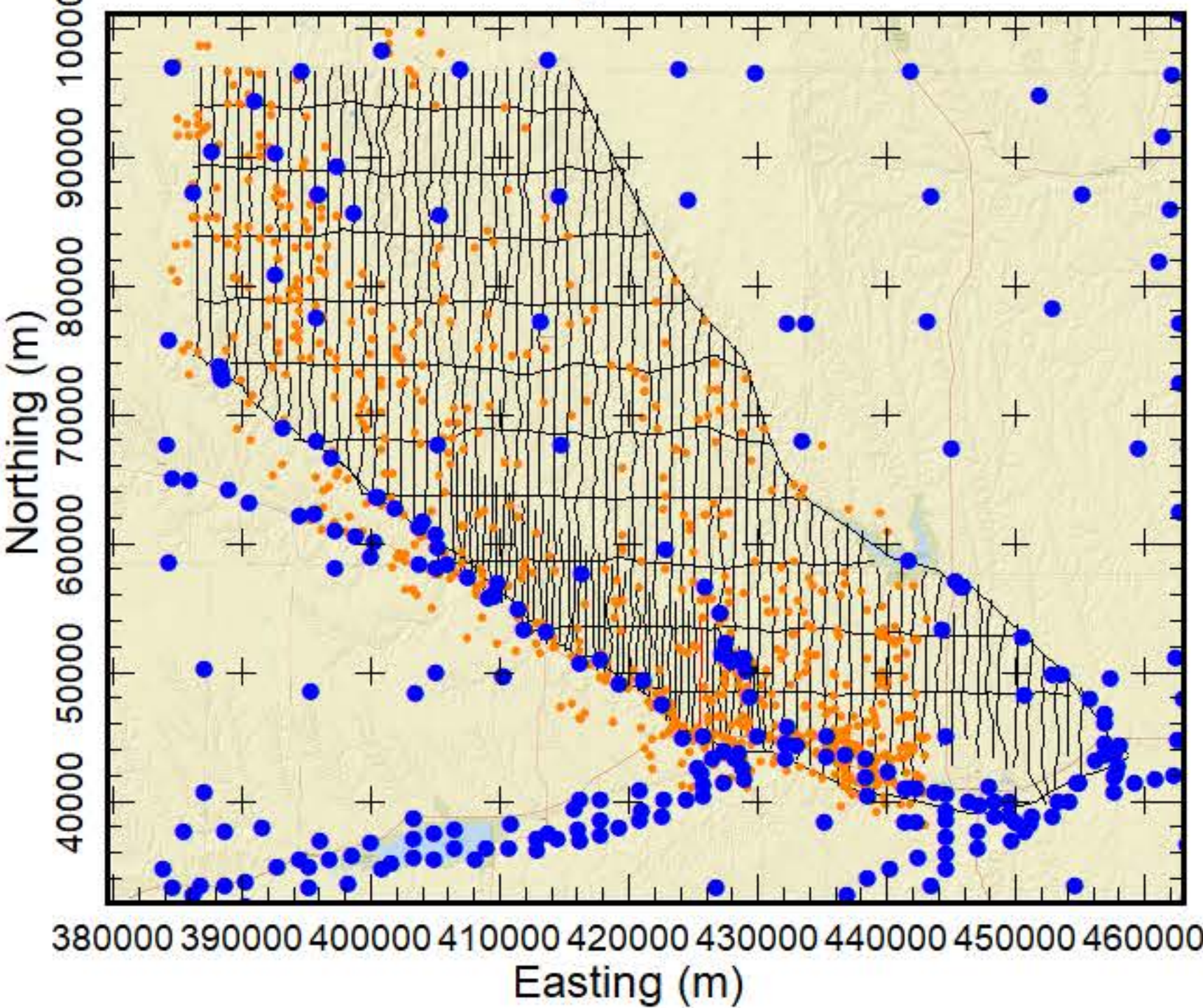




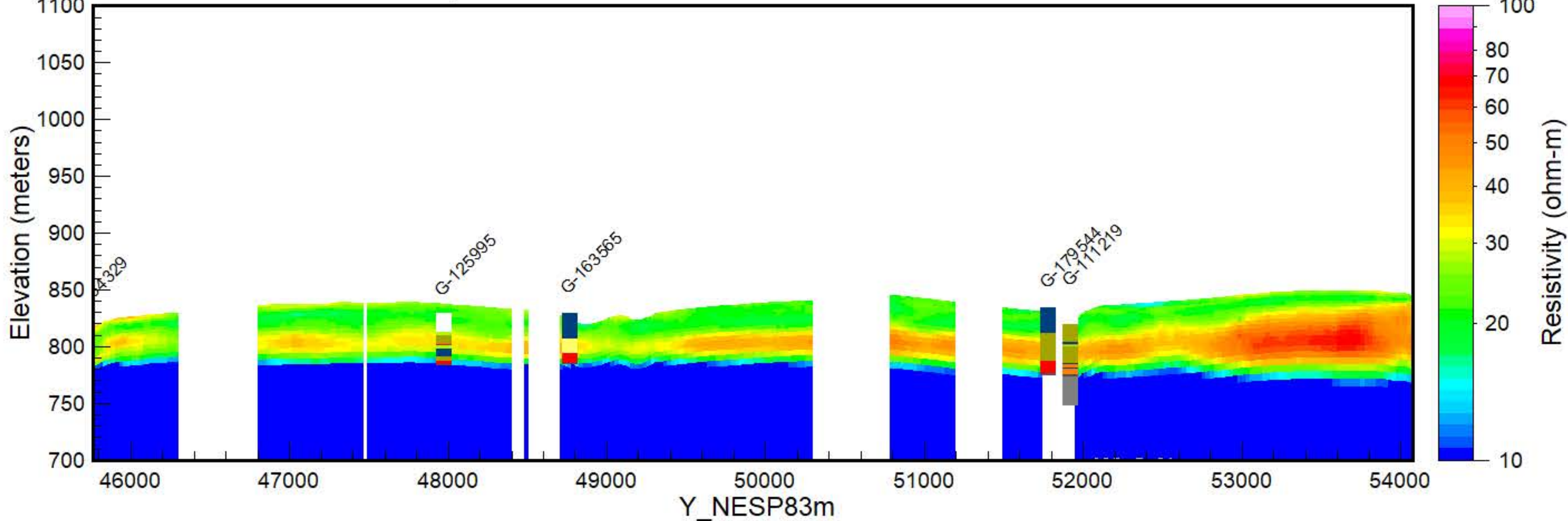
Flight Path Line L112201



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L112201



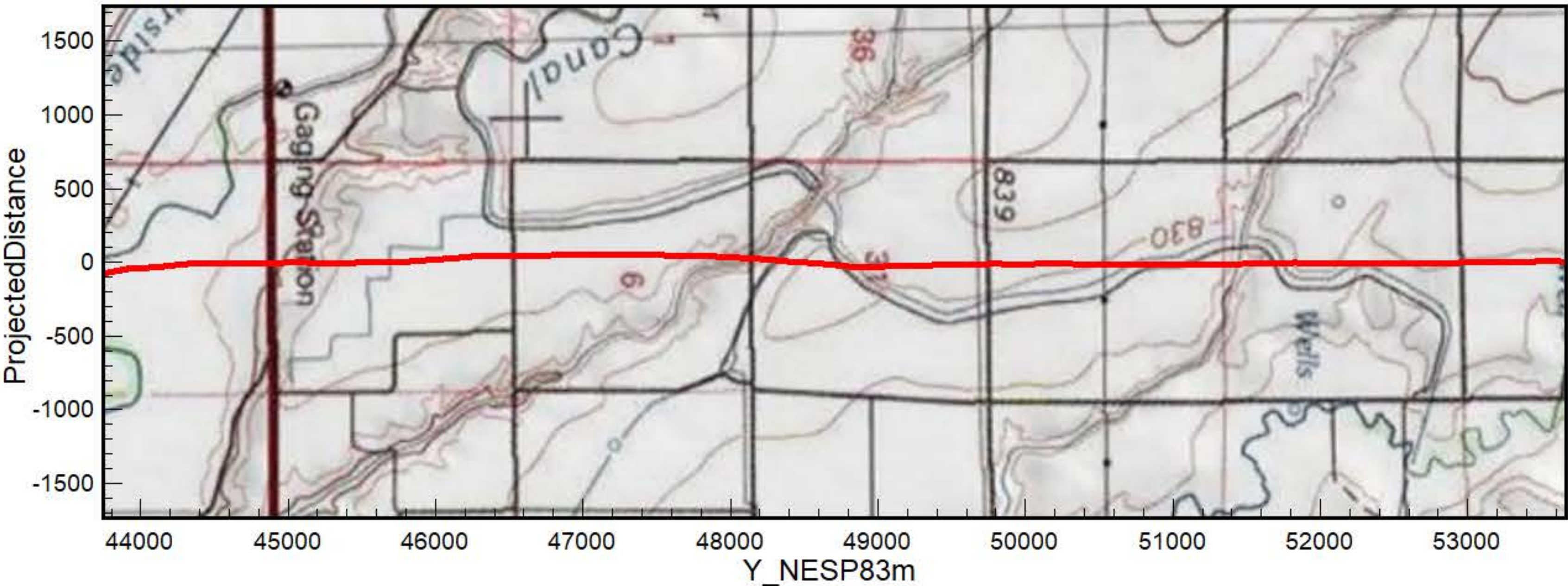
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

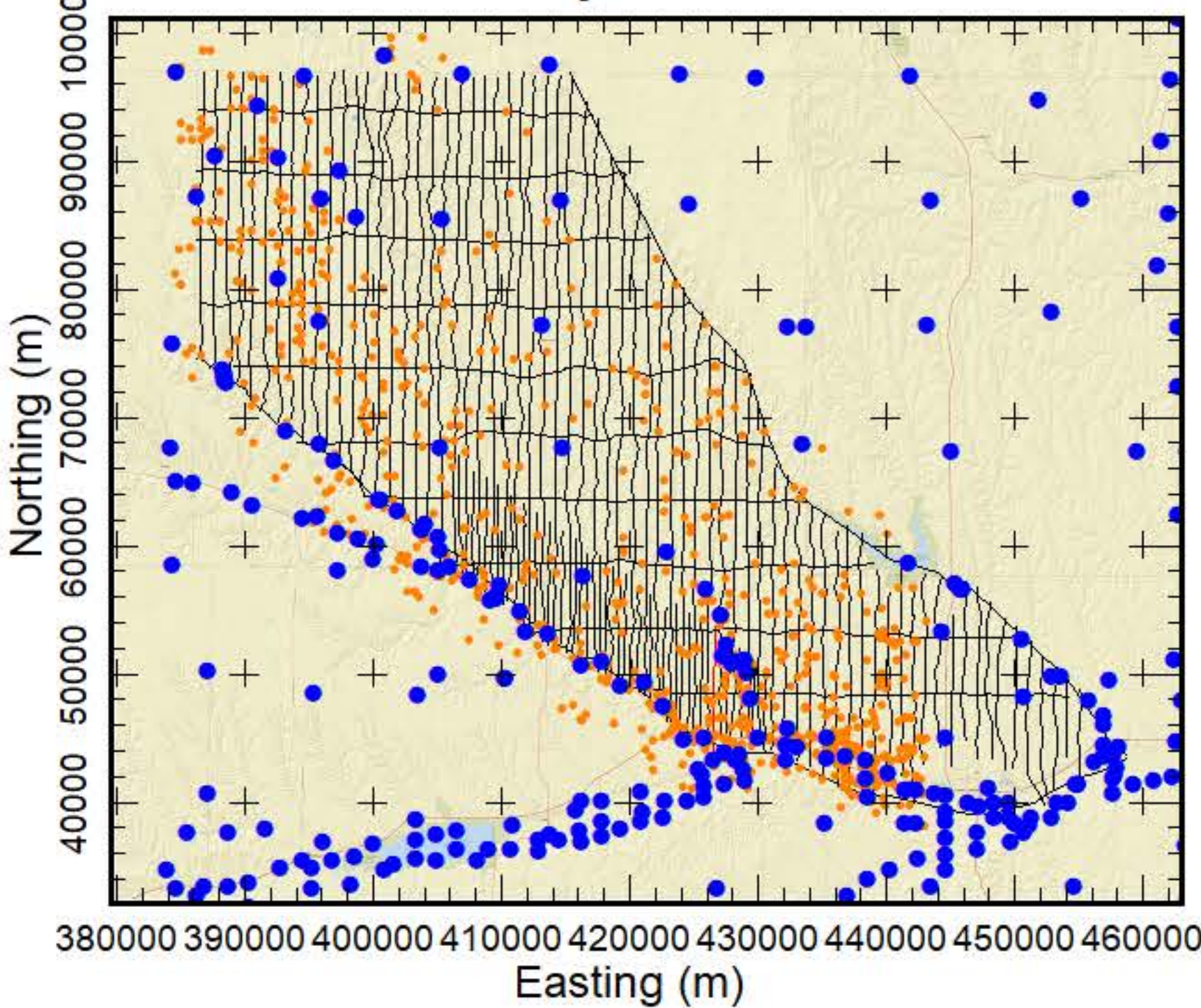




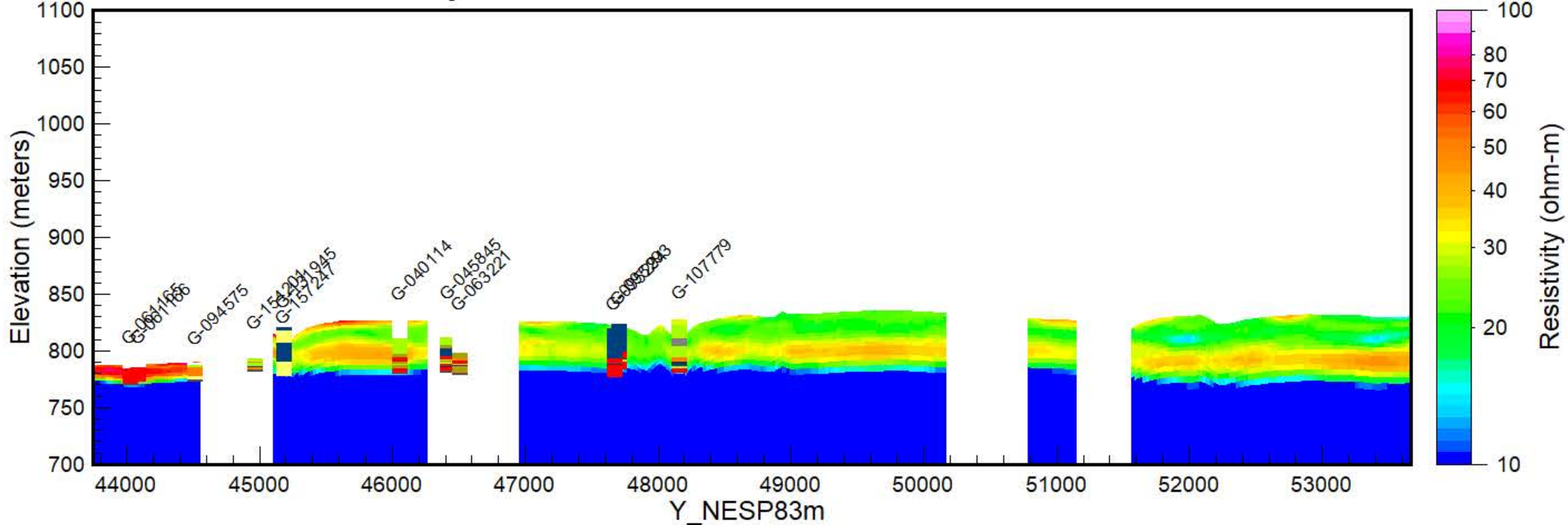
Flight Path Line L112301



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L112301



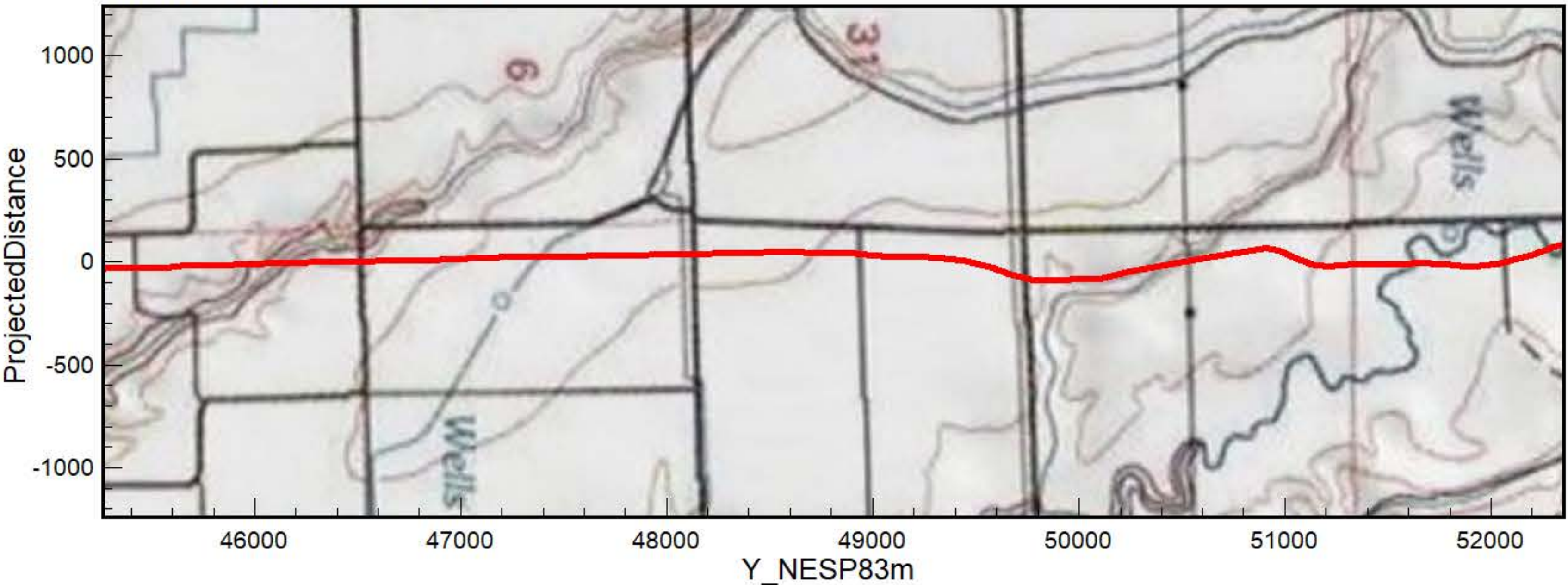
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

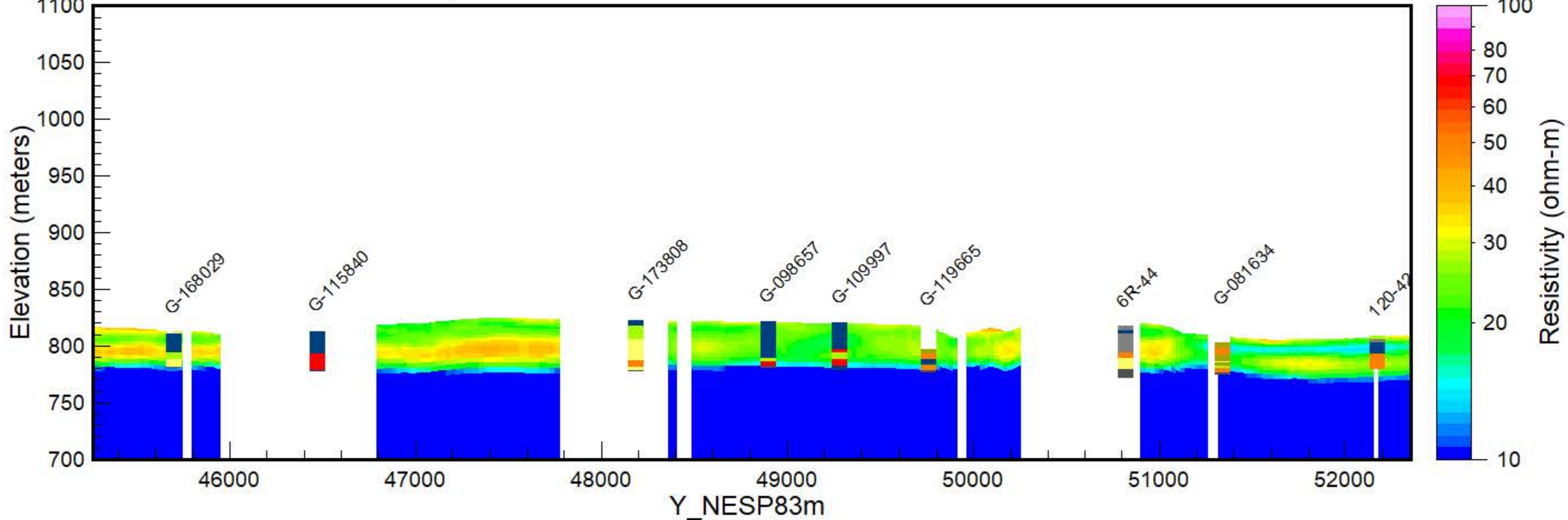




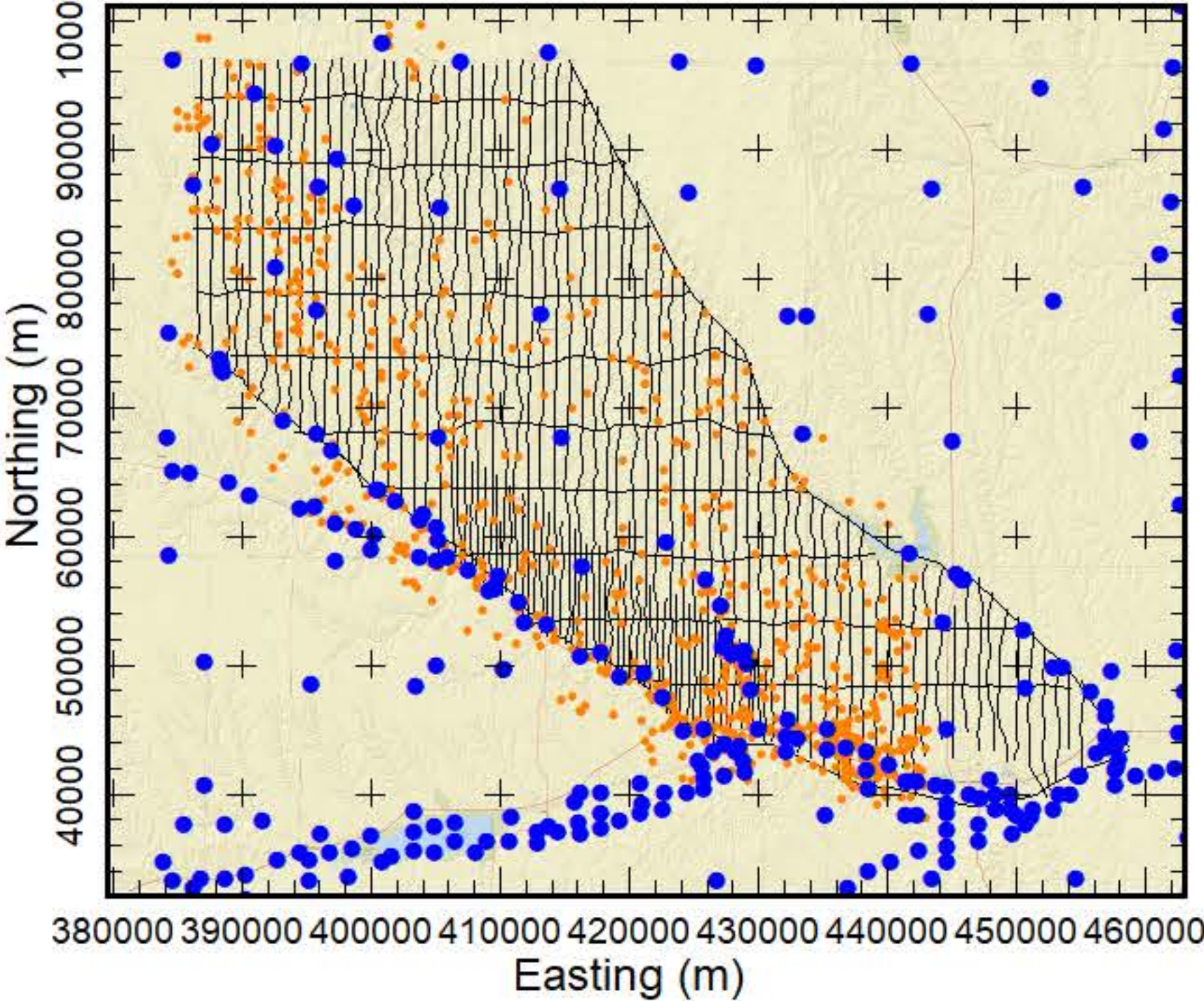
Flight Path Line L112401



AEM Inversion Resistivity Line L112401



MRNRD AEM Survey Area



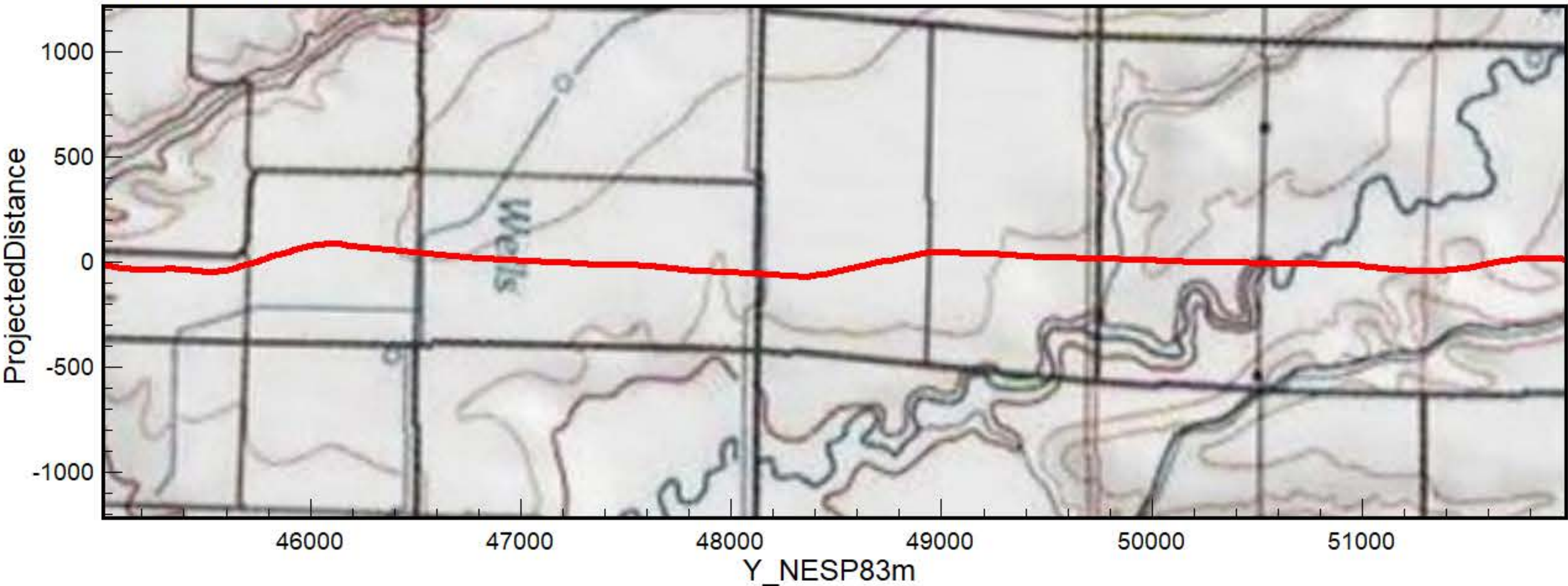
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

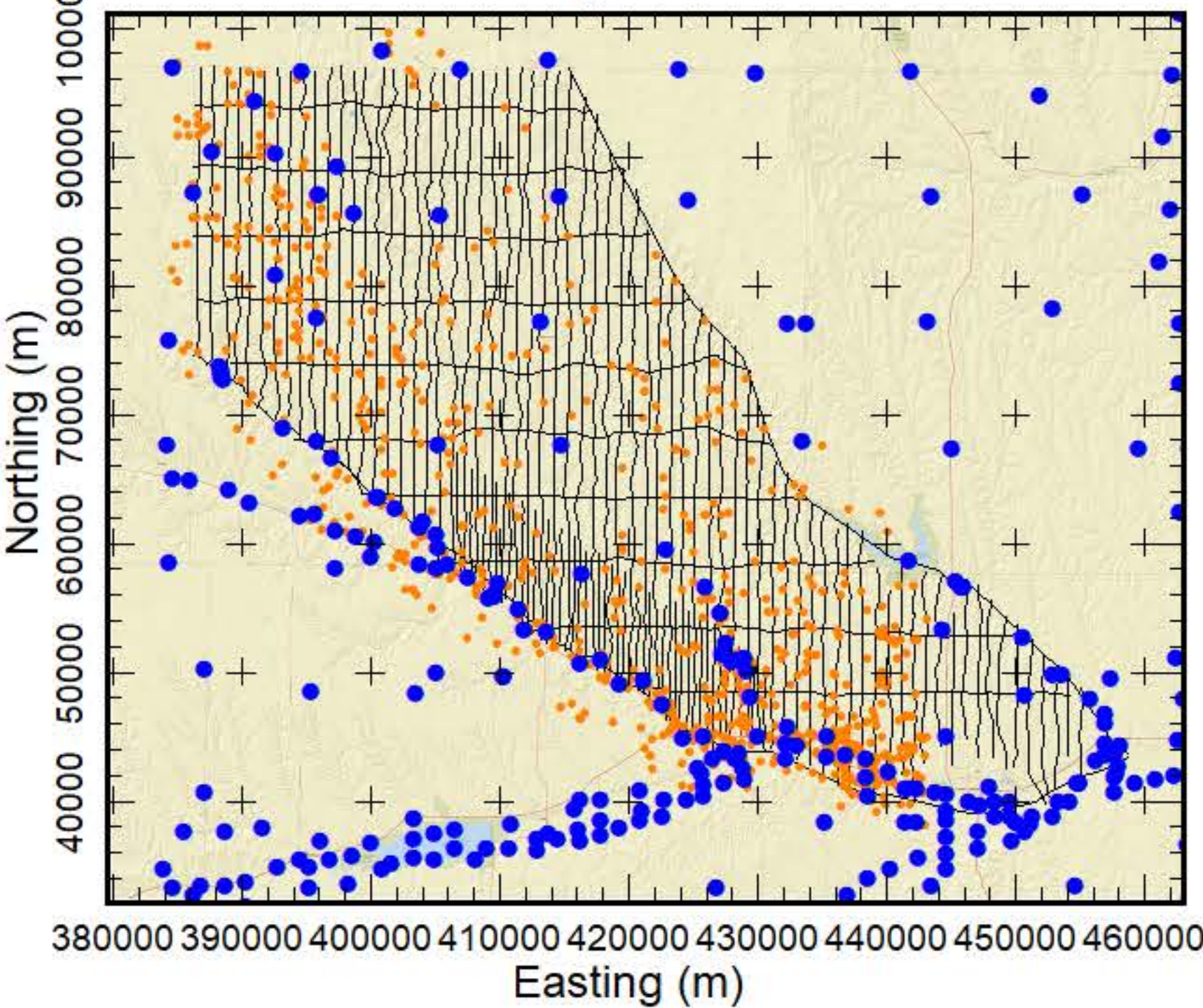




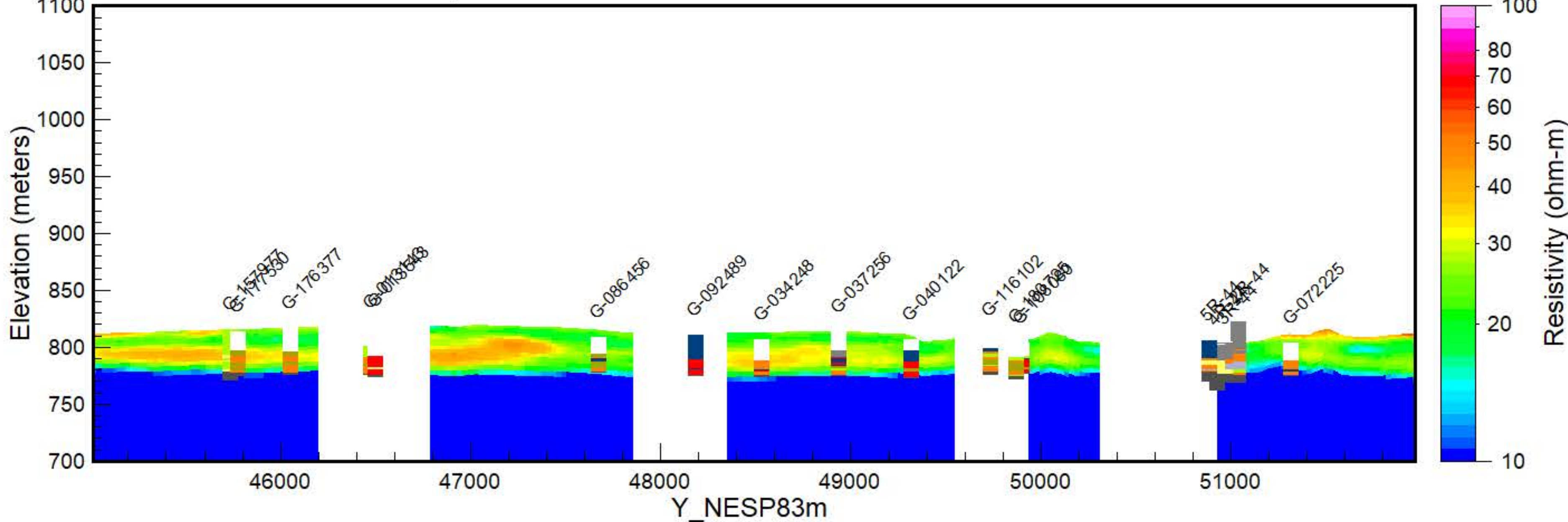
Flight Path Line L112501



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L112501



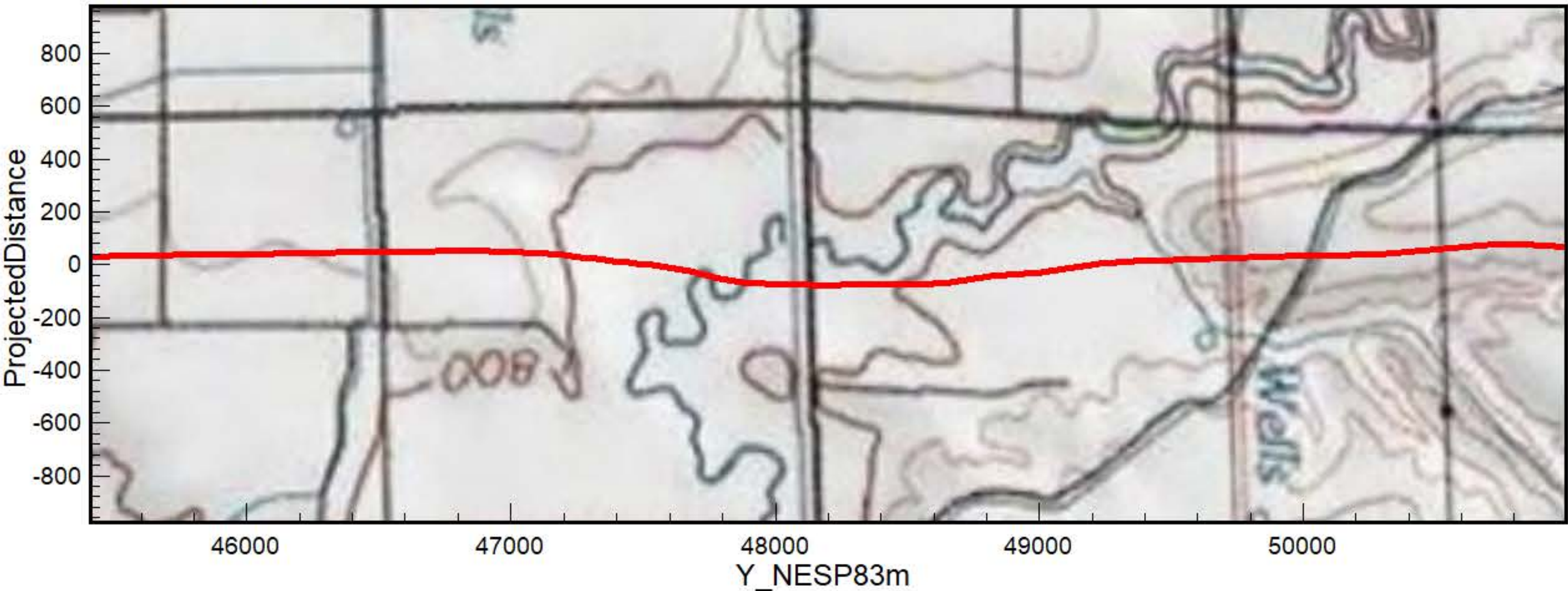
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

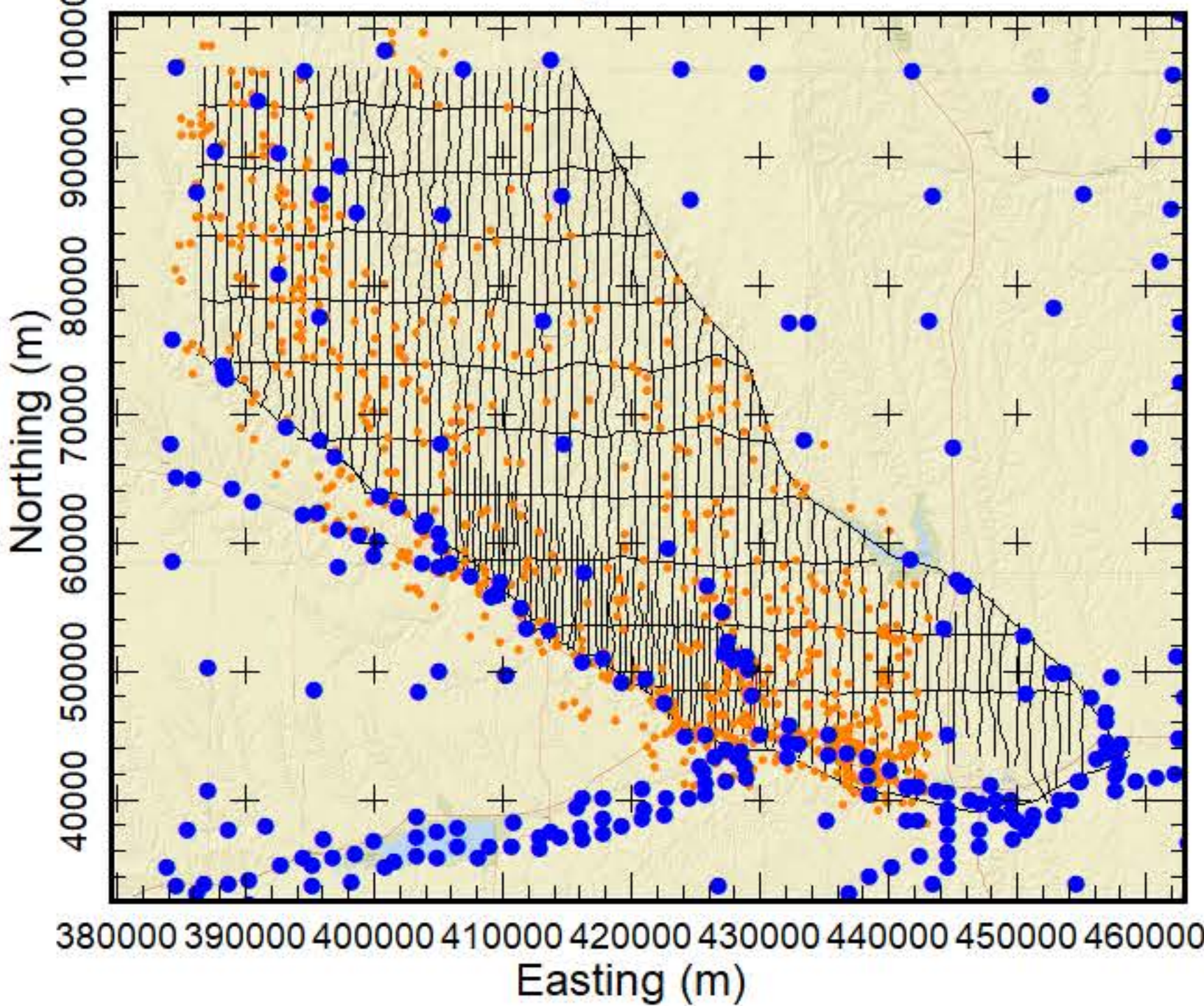




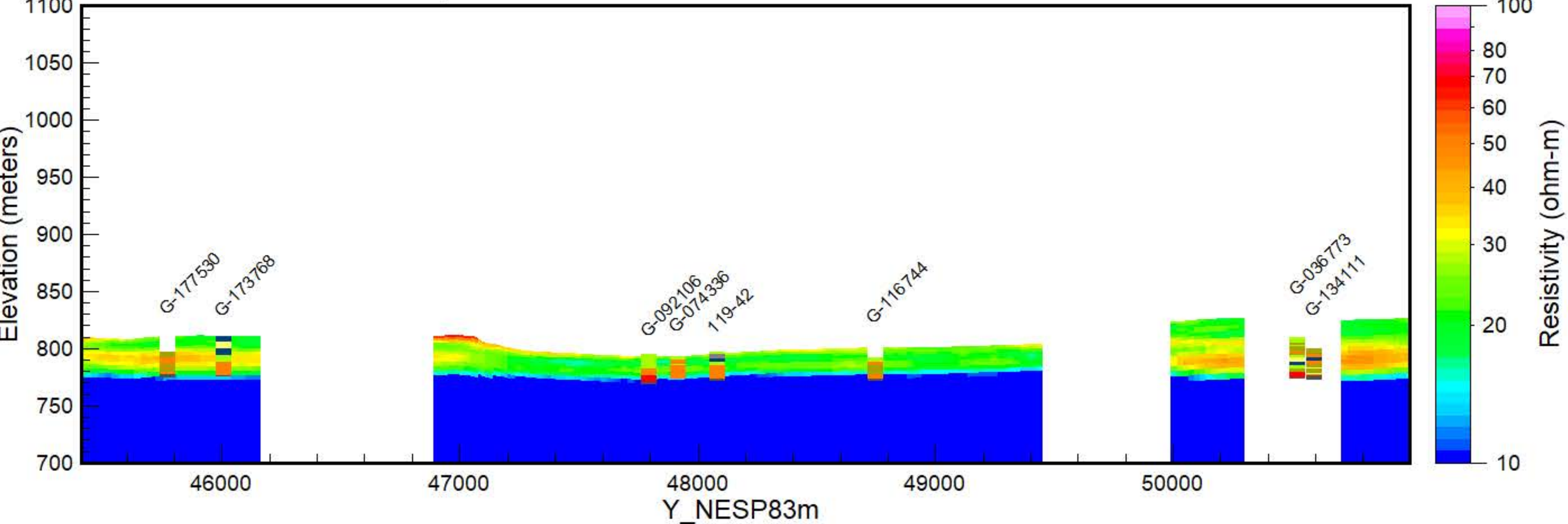
Flight Path Line L112601



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L112601



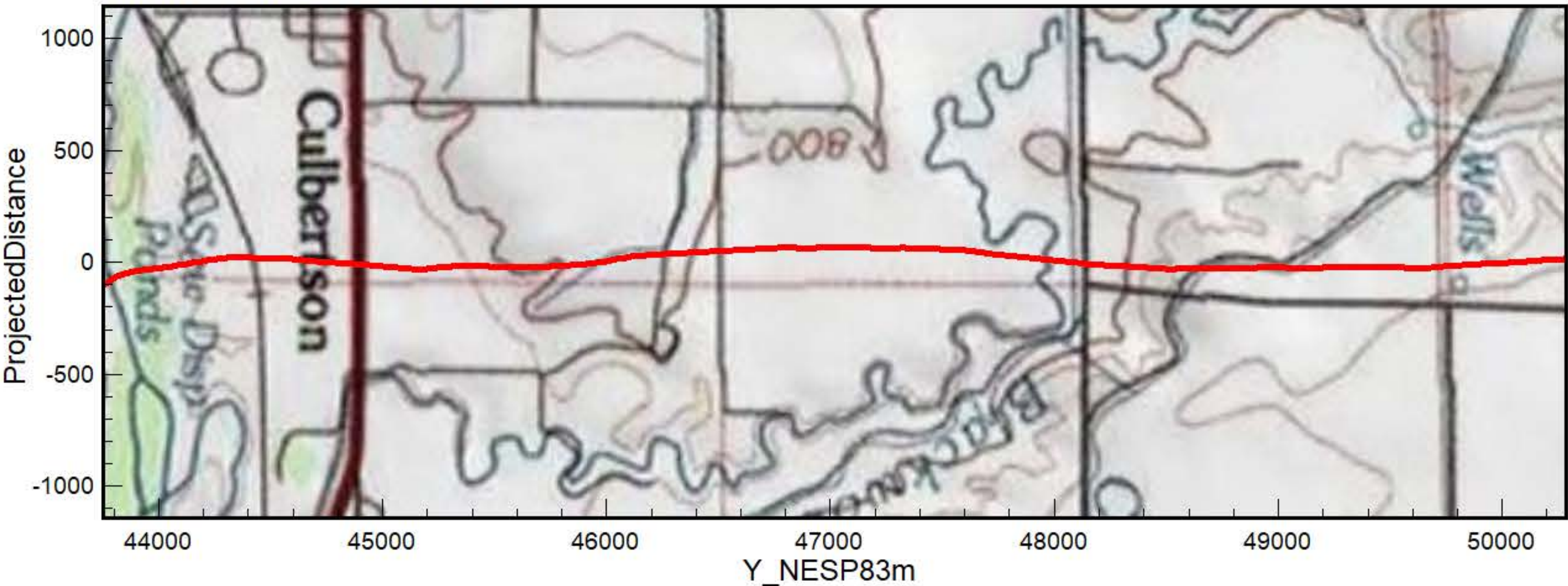
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

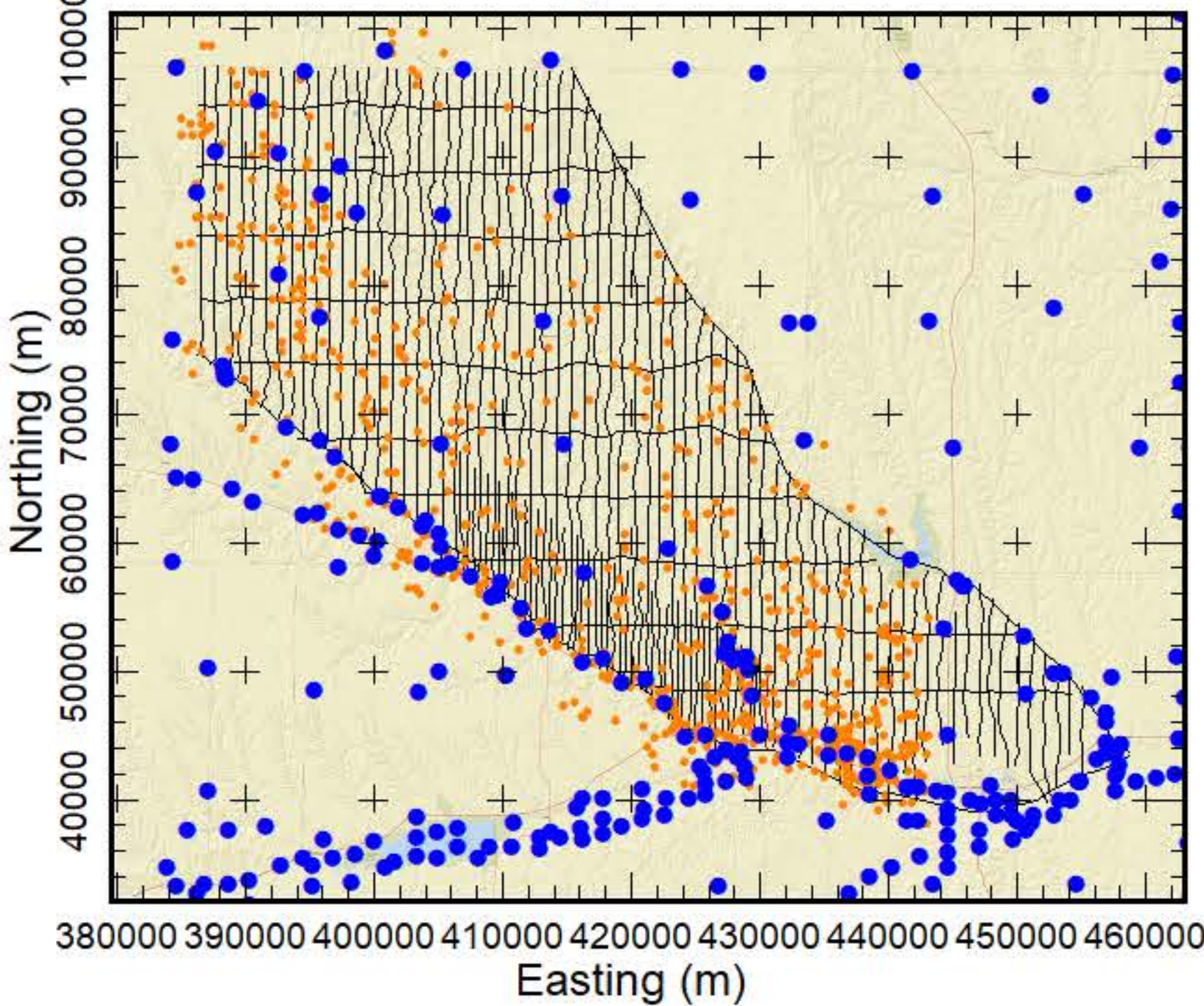




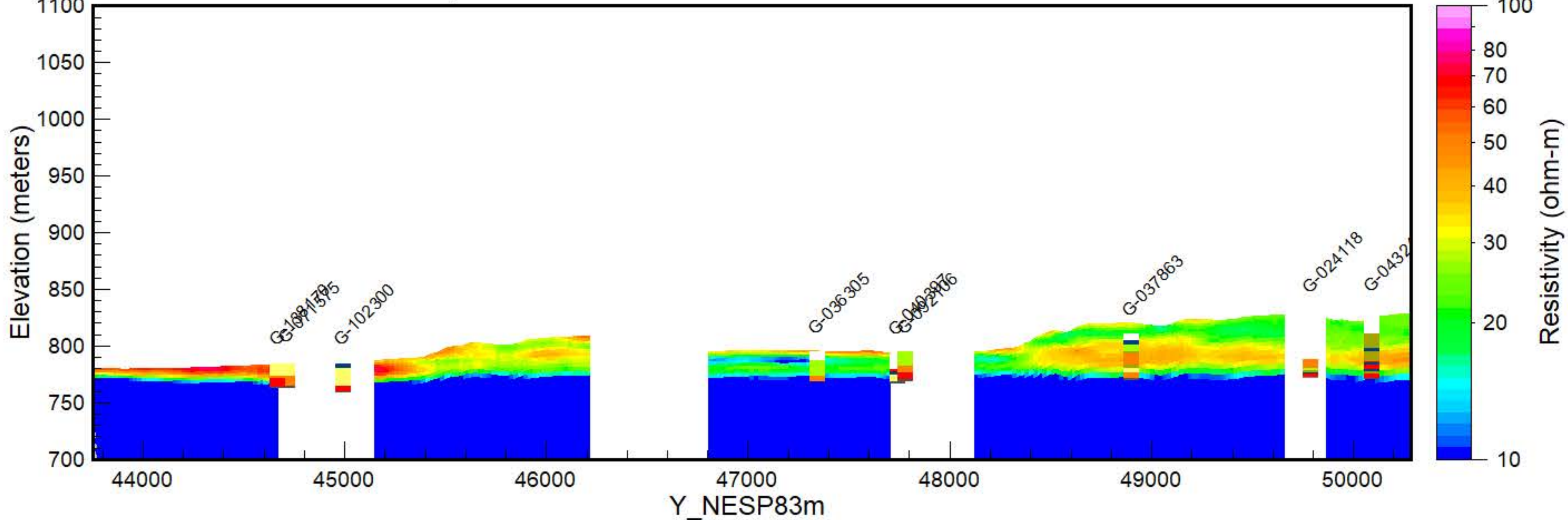
Flight Path Line L112701



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L112701



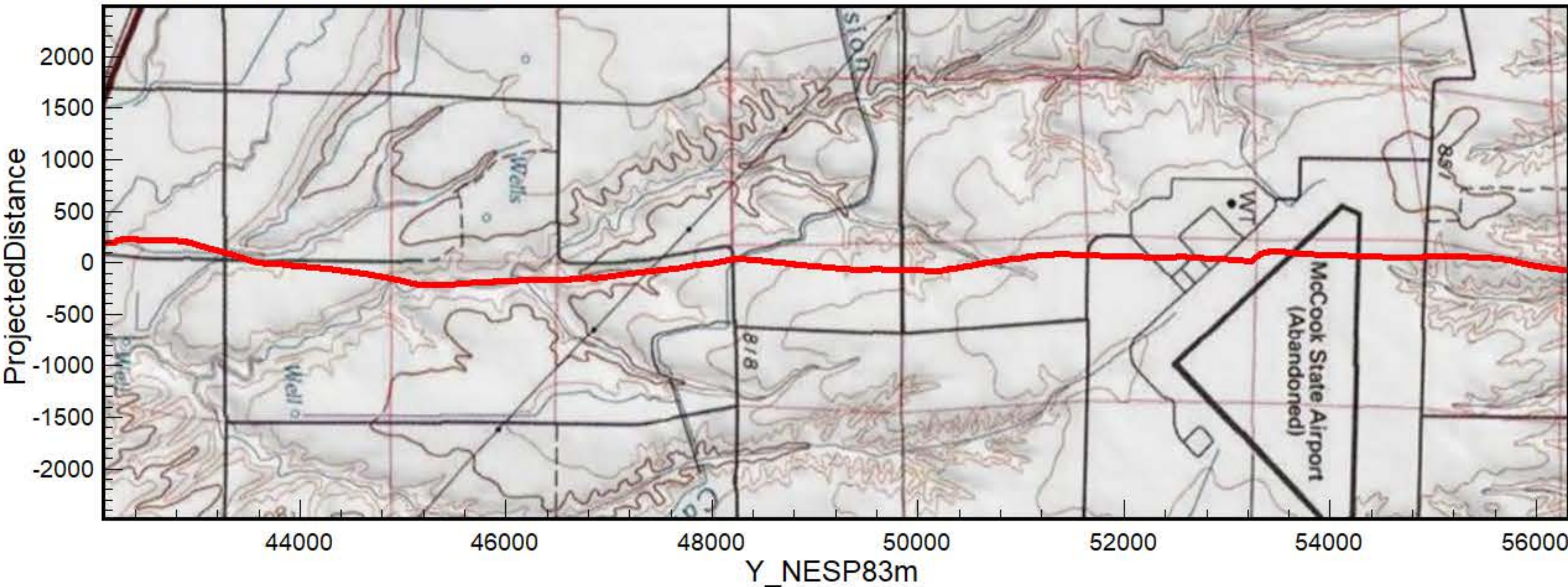
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

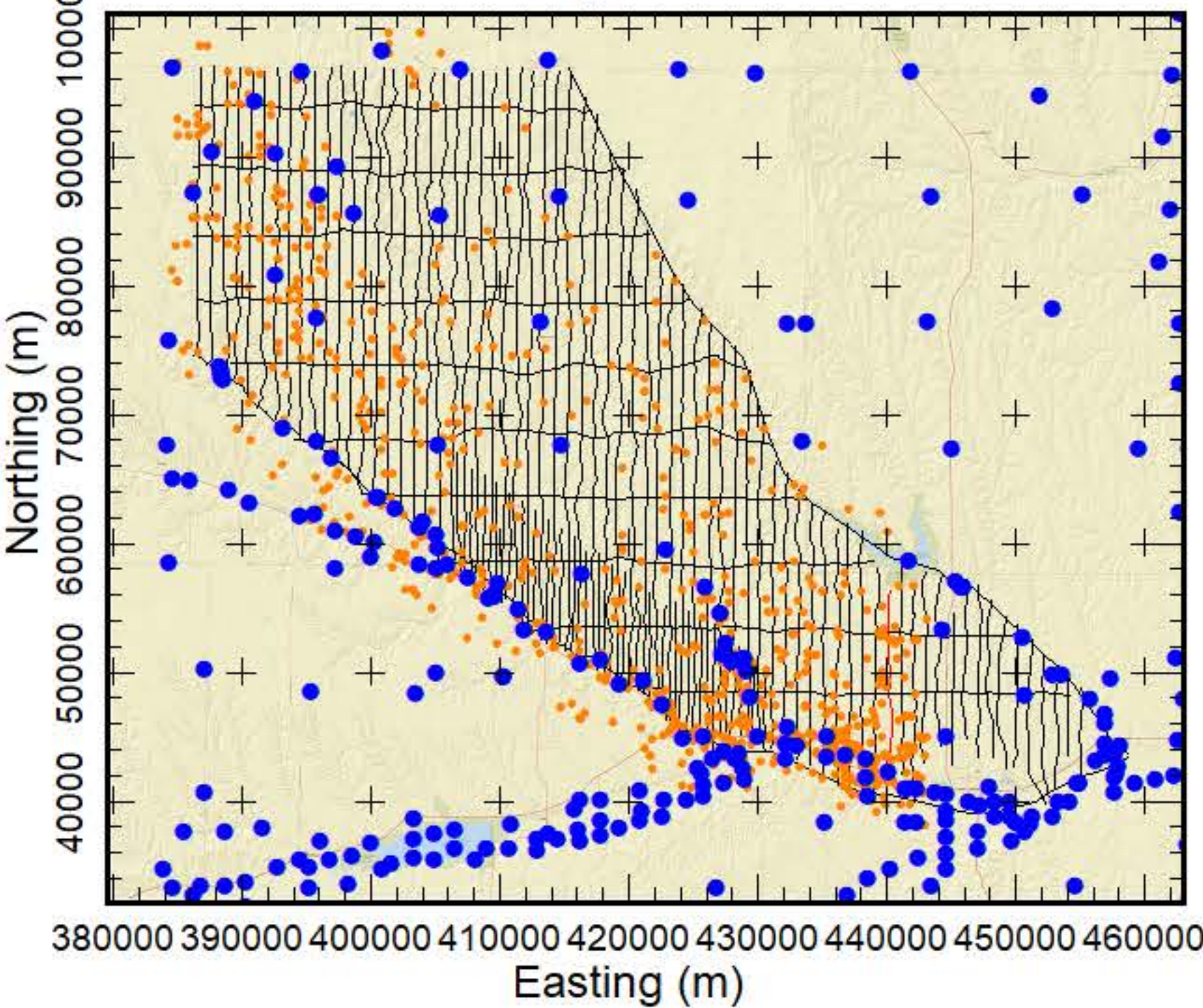




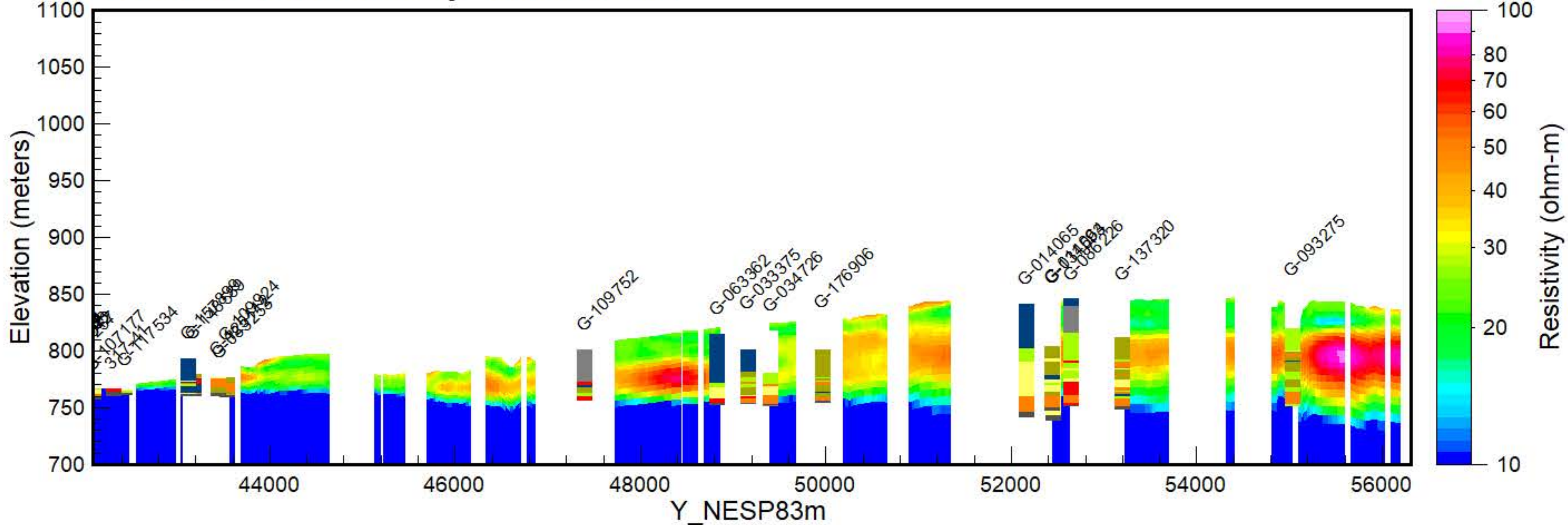
Flight Path Line L112801



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L112801



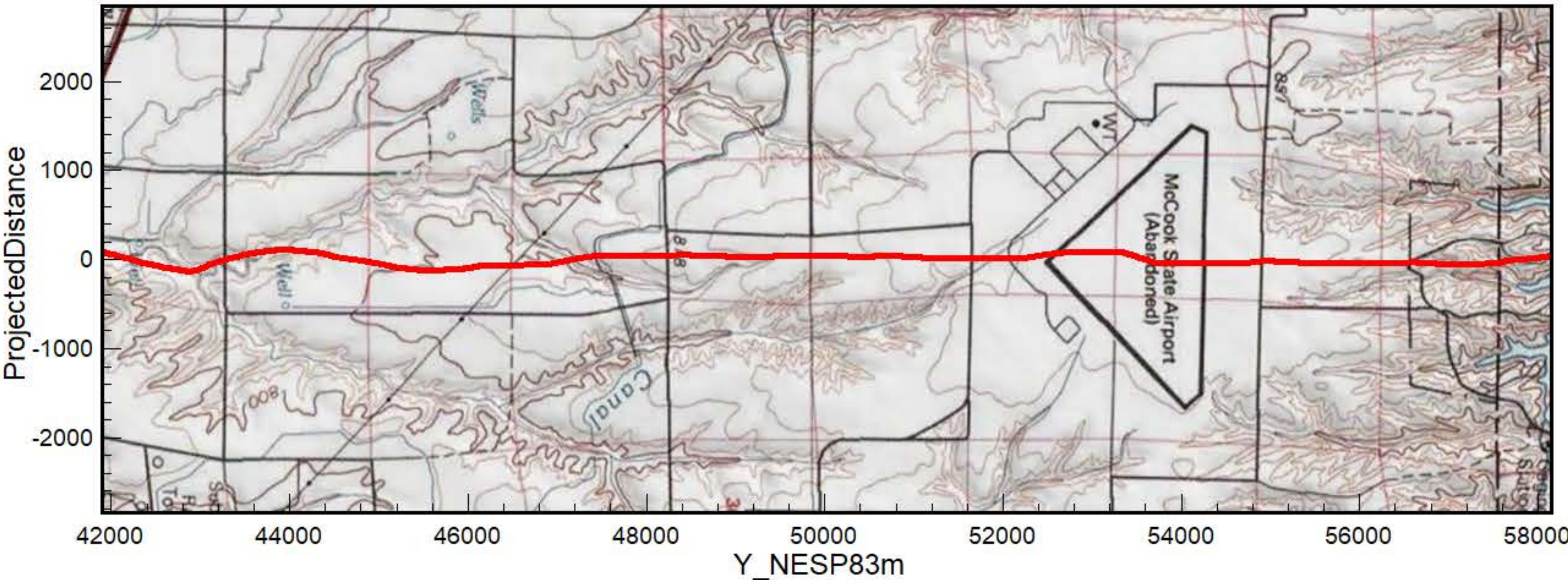
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

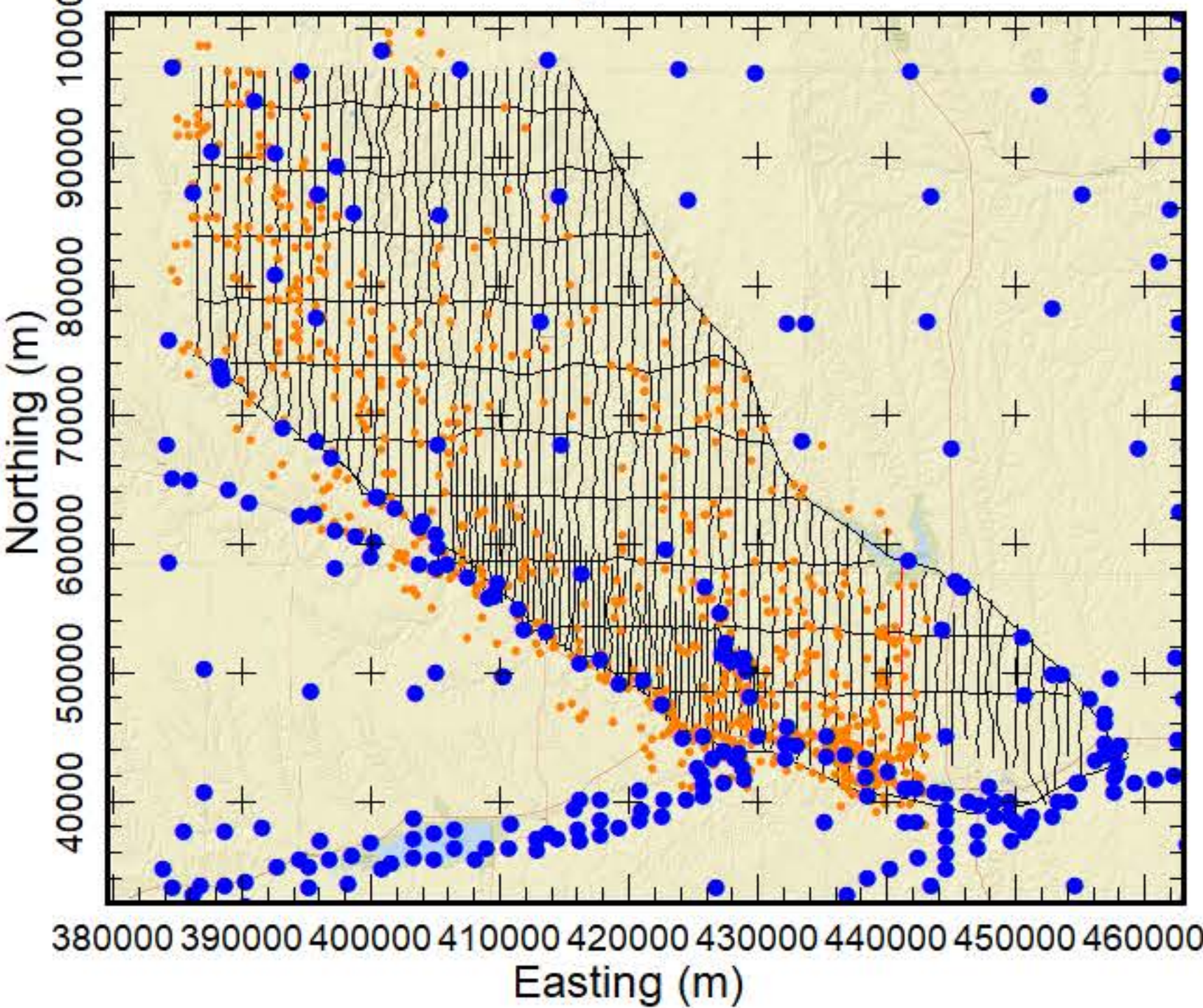




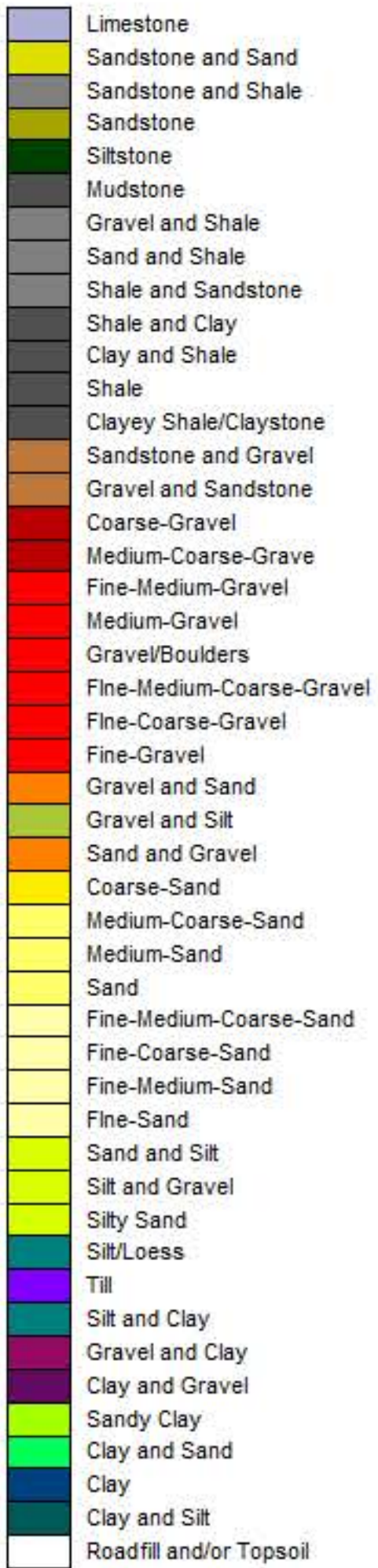
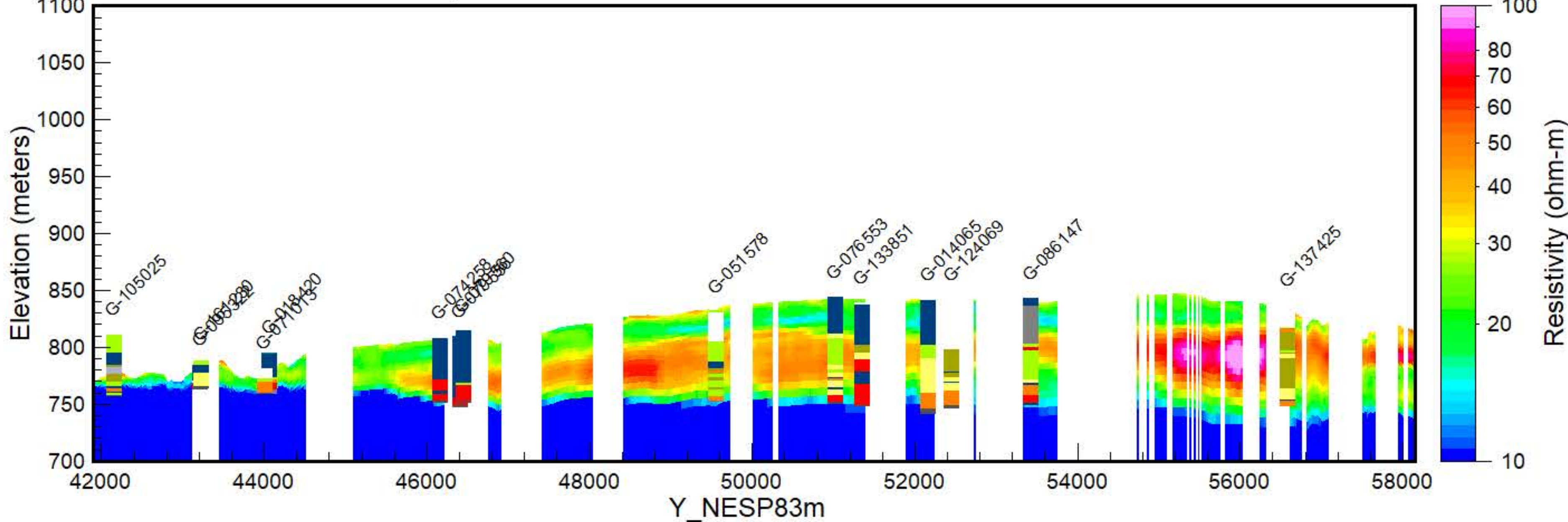
Flight Path Line L112901



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L112901

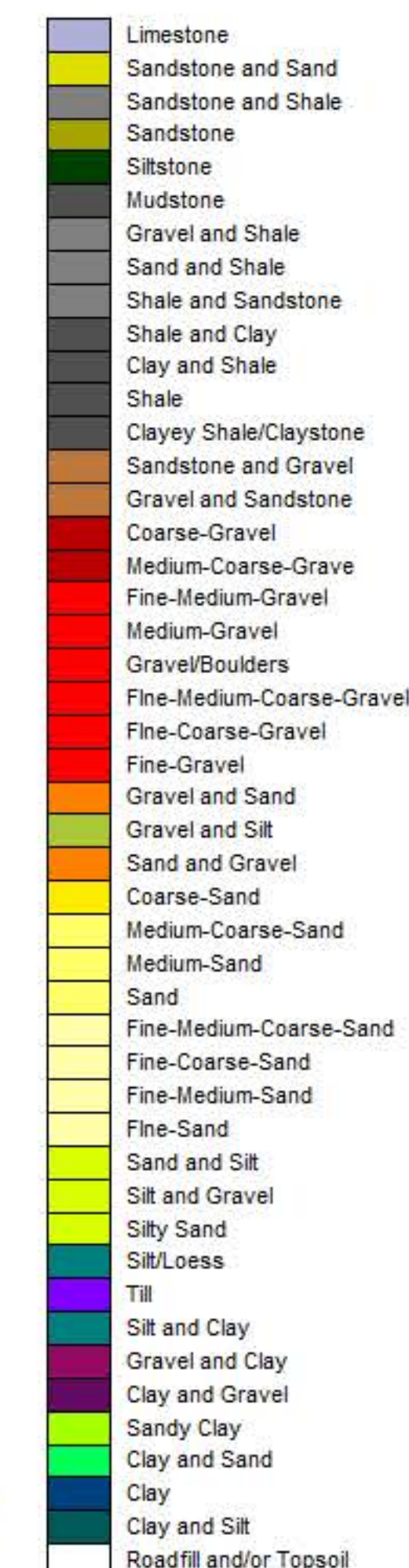


Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).



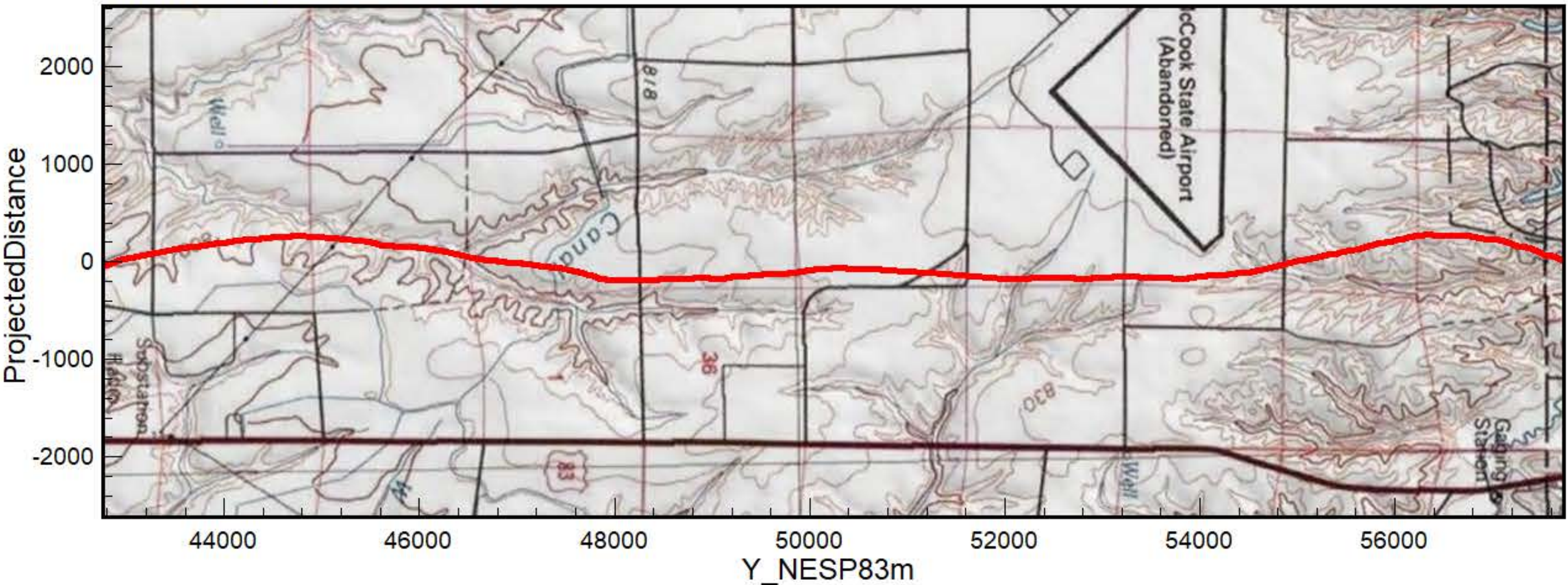
This figure is a topographic map of the McCook State Airport (Abandoned) area. The map shows contour lines, roads, and various landmarks. A red line is plotted across the map, representing a projected distance profile. The vertical axis is labeled 'ProjectedDistance' and ranges from -2000 to 2000. The horizontal axis is labeled 'Y NESP83m' and ranges from 40000 to 56000. Key features on the map include the 'McCook State Airport (Abandoned)', 'Gravel Pits', 'Well', 'Canal', 'Substation', 'Radio Towers', and 'Radio Tower'. The red line starts at a projected distance of approximately 0 at Y=40000, dips to about -500 at Y=41000, rises to about 500 at Y=43000, dips to about -500 at Y=45000, rises to about 500 at Y=47000, dips to about -500 at Y=49000, rises to about 500 at Y=51000, dips to about -500 at Y=53000, rises to about 500 at Y=55000, and ends at about -500 at Y=56000.

The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

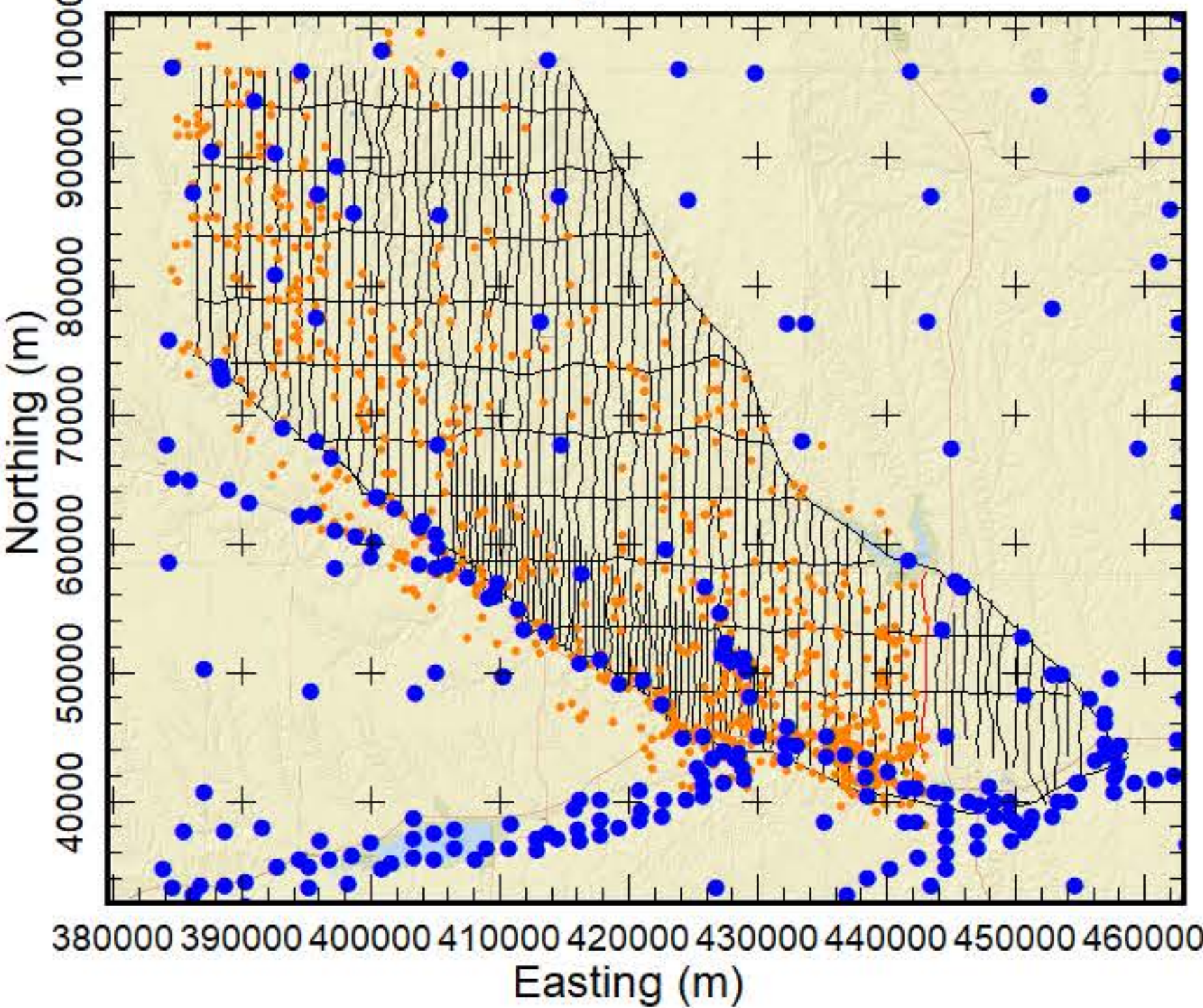




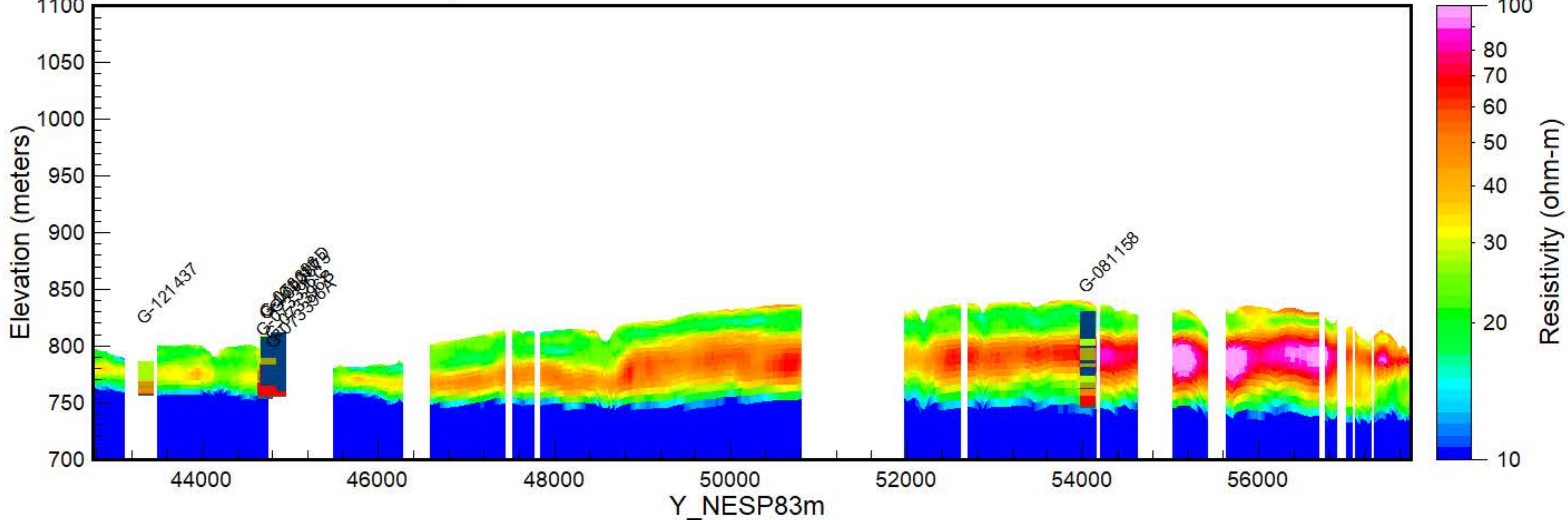
Flight Path Line L113101



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L113101



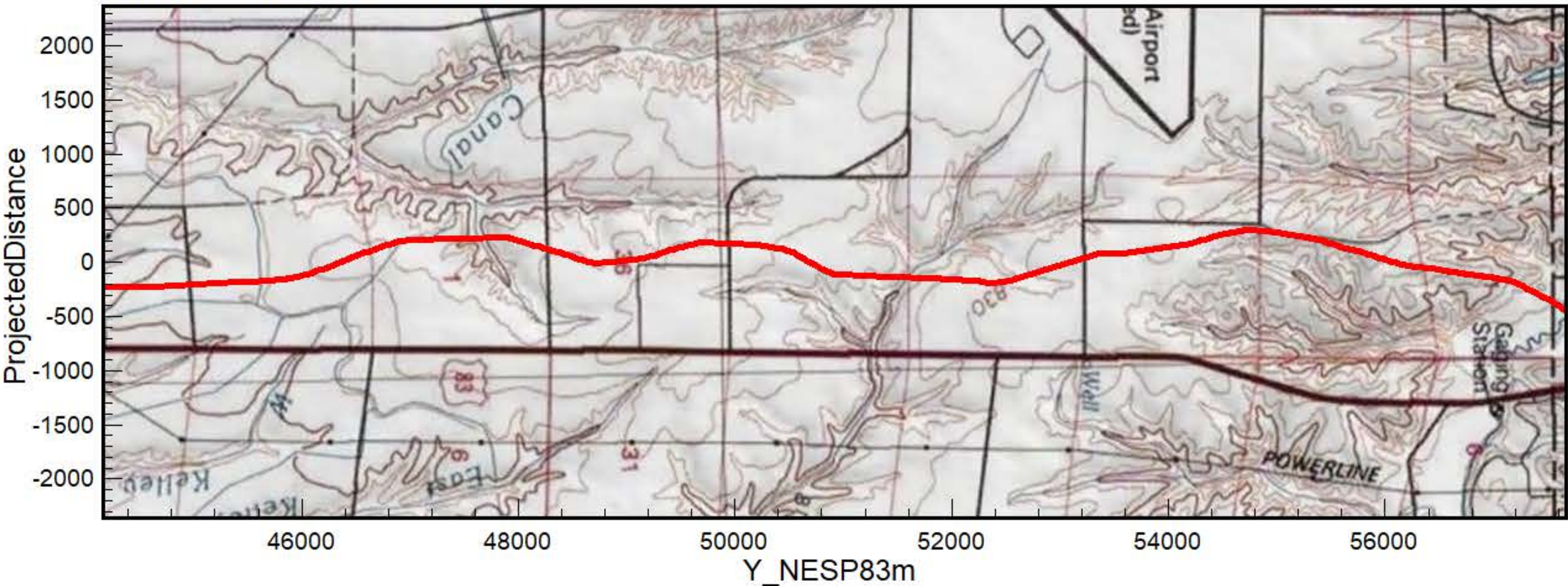
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

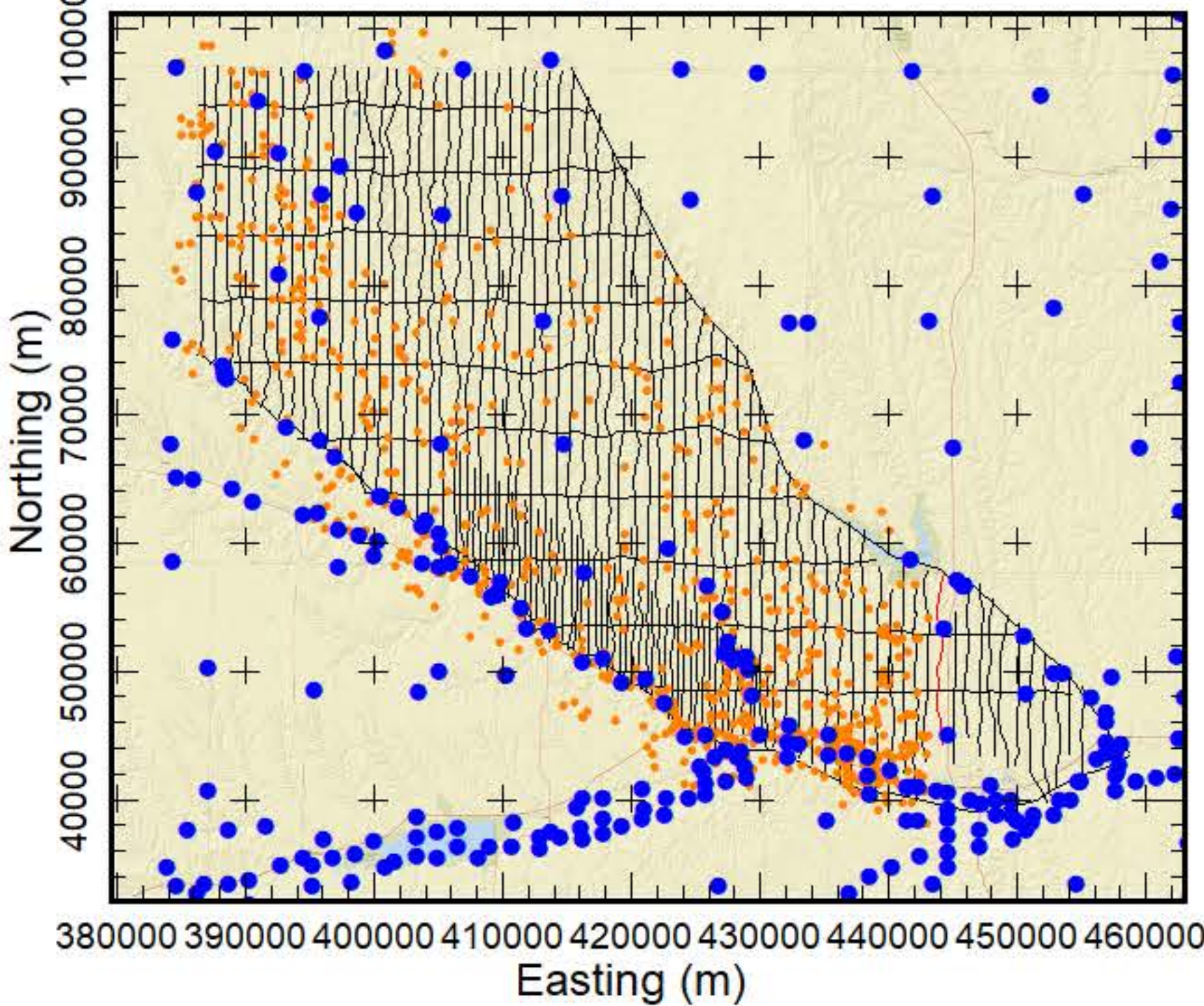




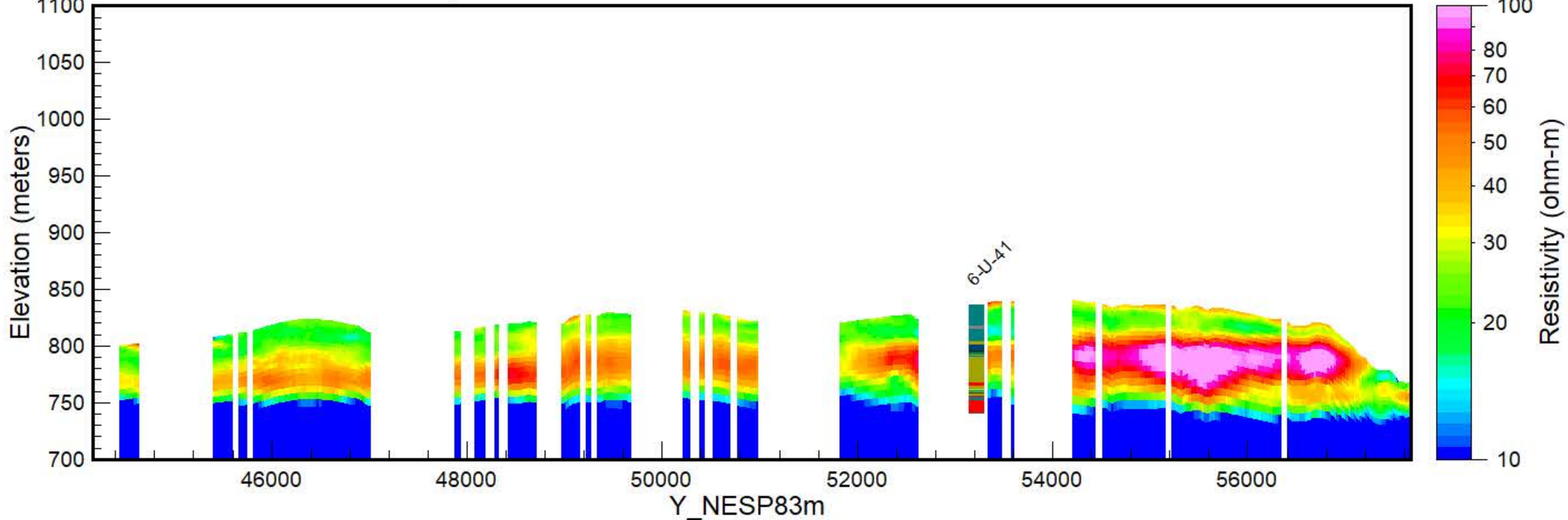
Flight Path Line L113201



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L113201



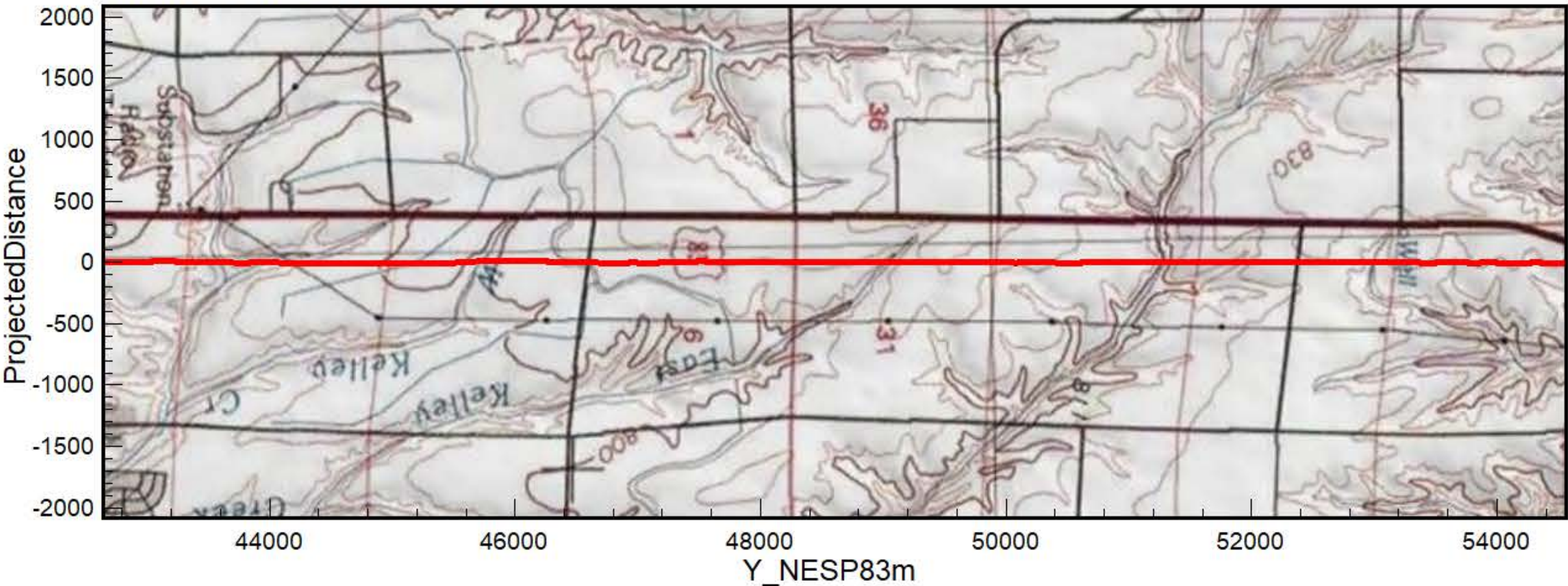
	Limestone
	Sandstone and Sand
	Sandstone and Shale
	Sandstone
	Siltstone
	Mudstone
	Gravel and Shale
	Sand and Shale
	Shale and Sandstone
	Shale and Clay
	Clay and Shale
	Shale
	Clayey Shale/Claystone
	Sandstone and Gravel
	Gravel and Sandstone
	Coarse-Gravel
	Medium-Coarse-Gravel
	Fine-Medium-Gravel
	Medium-Gravel
	Gravel/Boulders
	Fine-Medium-Coarse-Gravel
	Fine-Coarse-Gravel
	Fine-Gravel
	Gravel and Sand
	Gravel and Silt
	Sand and Gravel
	Coarse-Sand
	Medium-Coarse-Sand
	Medium-Sand
	Sand
	Fine-Medium-Coarse-Sand
	Fine-Coarse-Sand
	Fine-Medium-Sand
	Fine-Sand
	Sand and Silt
	Silt and Gravel
	Silty Sand
	Silt/Loess
	Till
	Silt and Clay
	Gravel and Clay
	Clay and Gravel
	Sandy Clay
	Clay and Sand
	Clay
	Clay and Silt
	Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

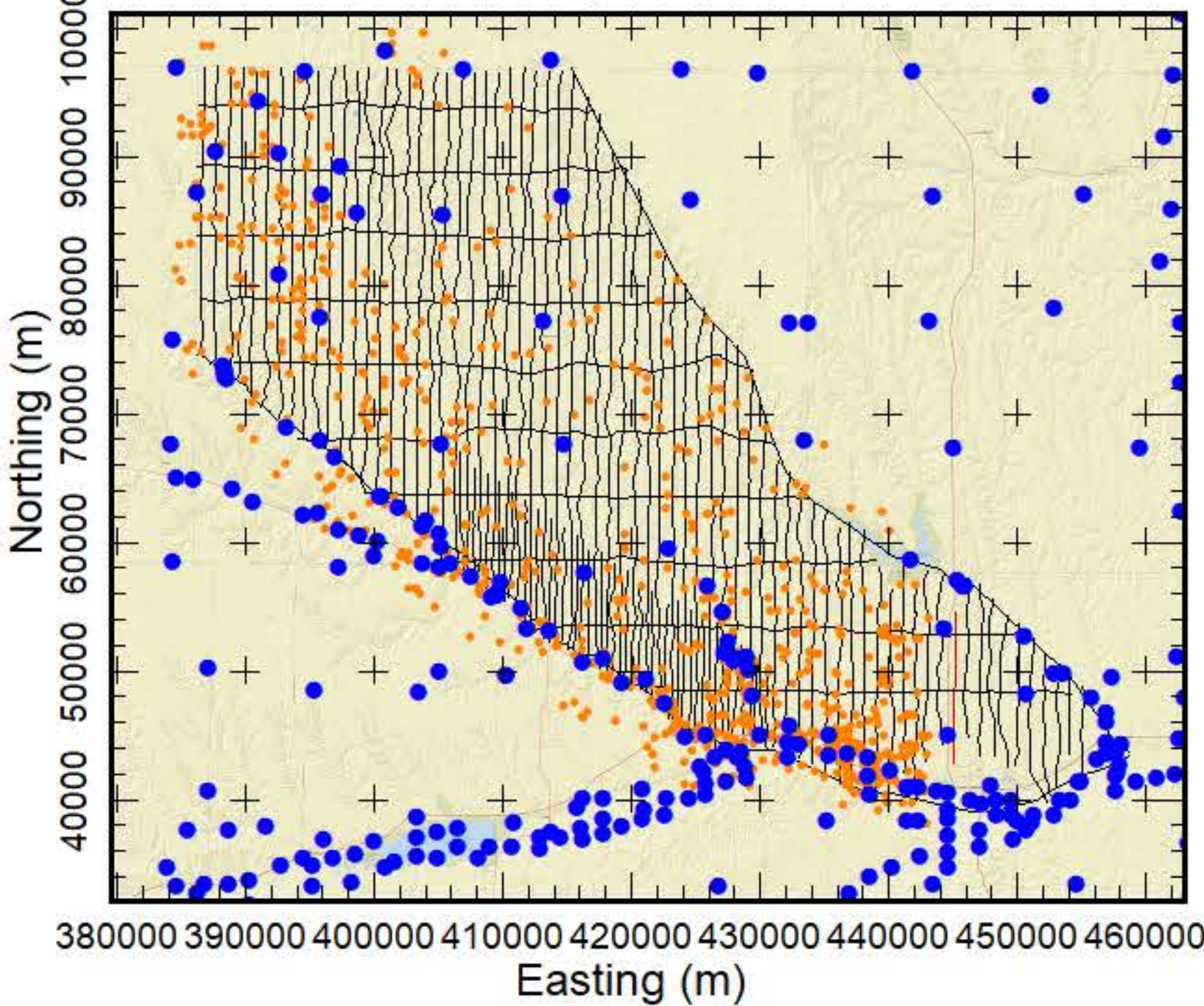




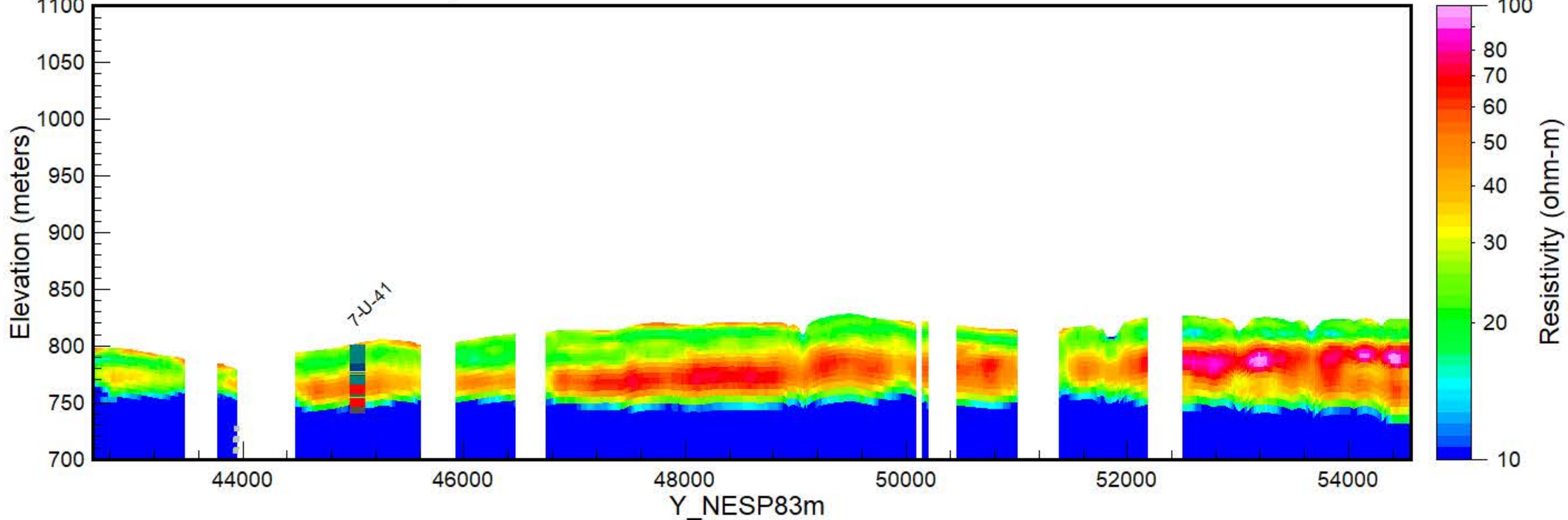
Flight Path Line L113301



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L113301



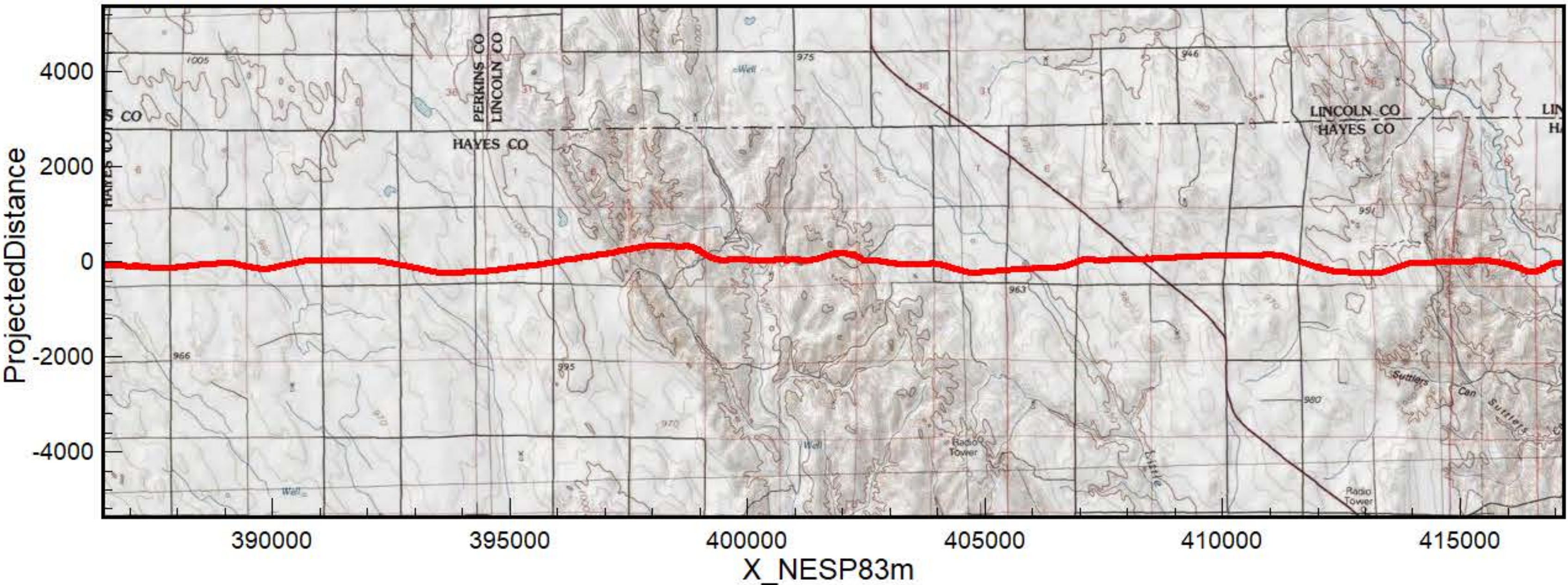
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

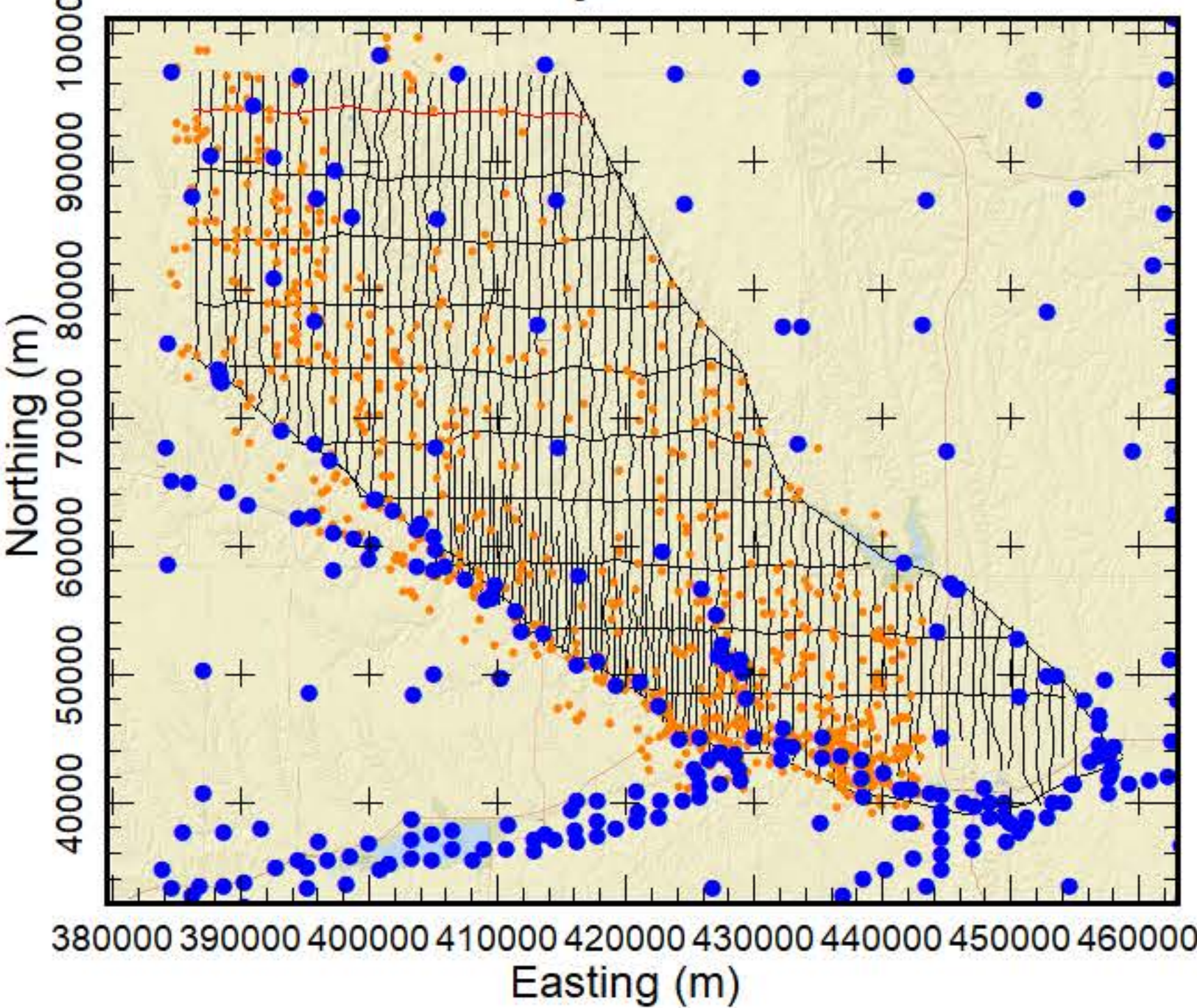




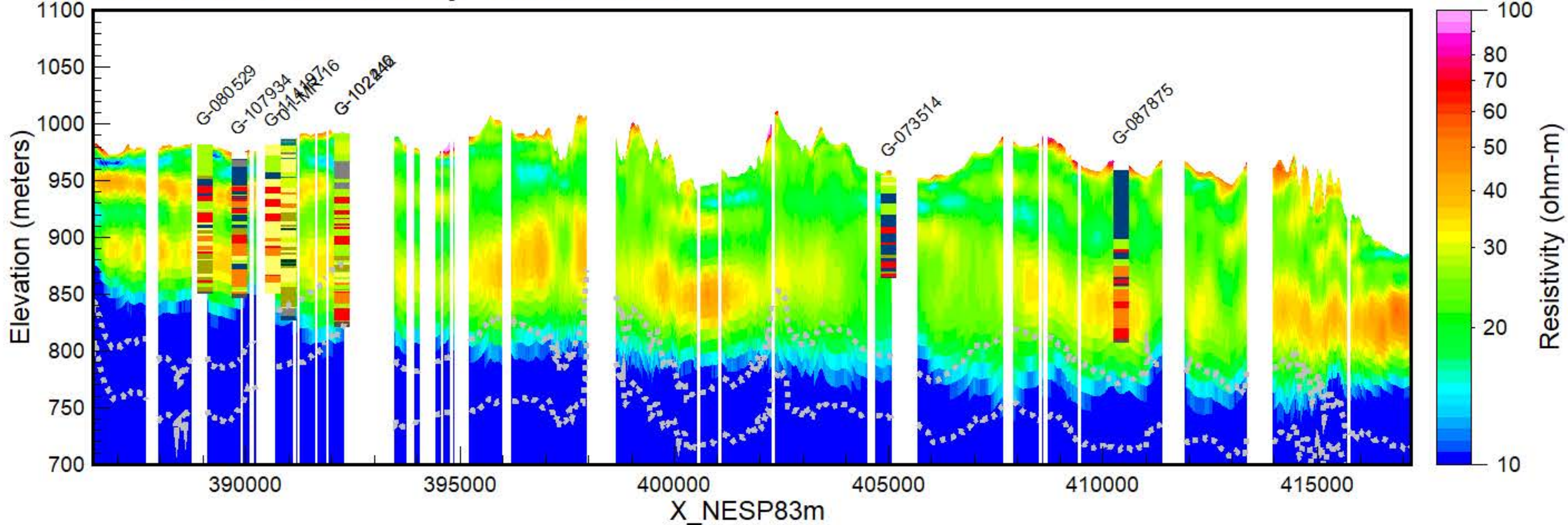
Flight Path Line L200101



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L200101



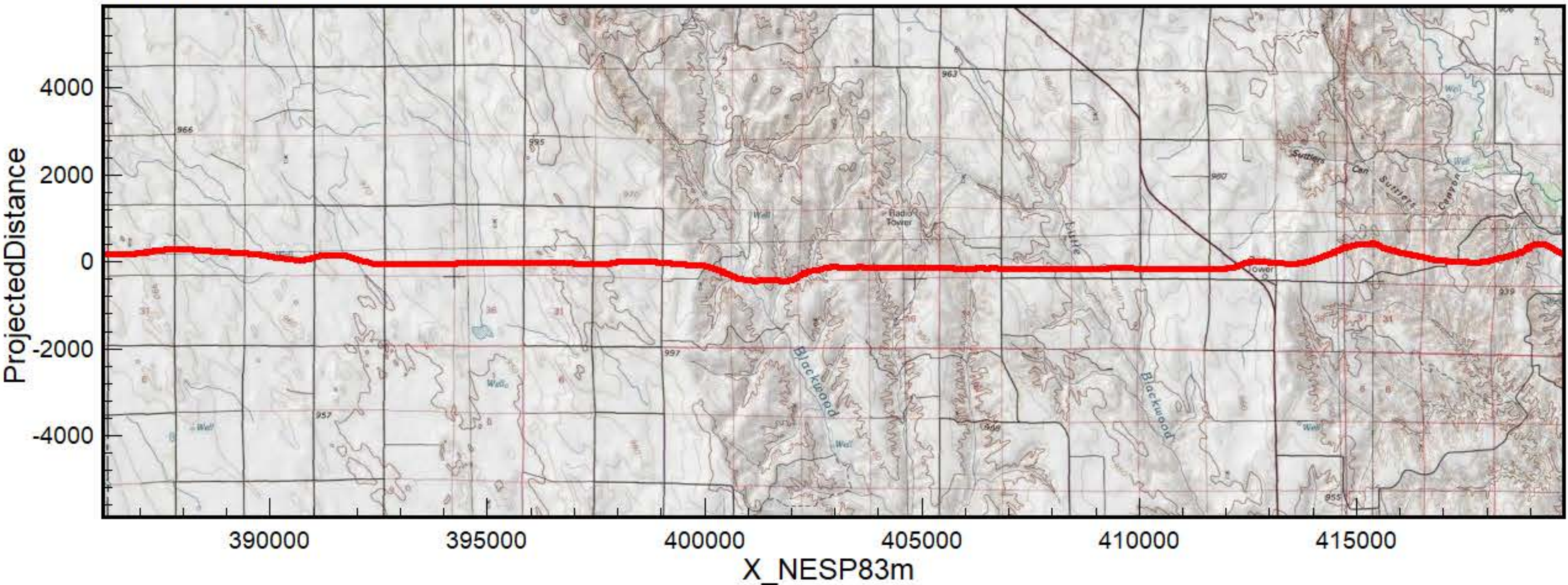
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Grave
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

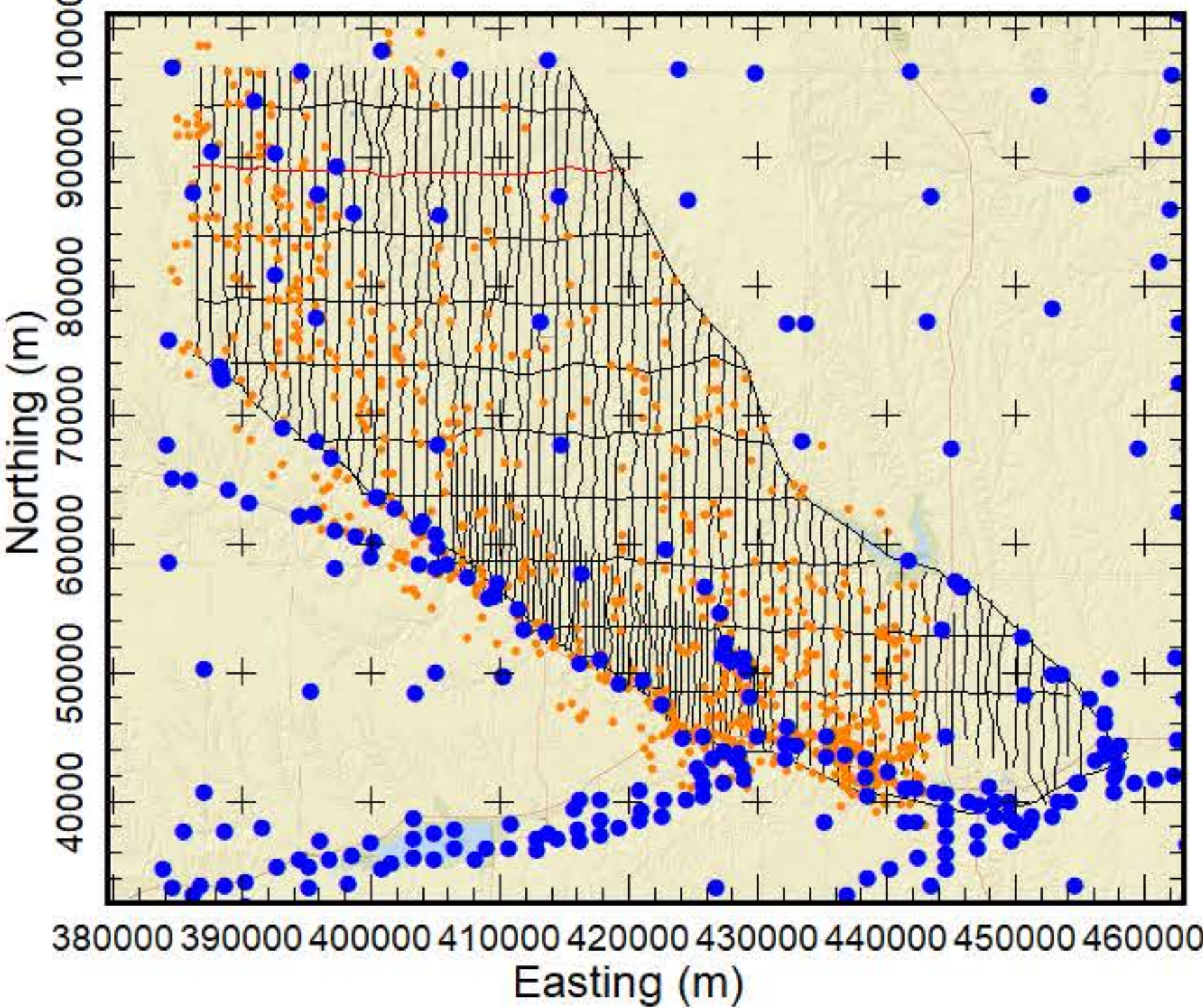




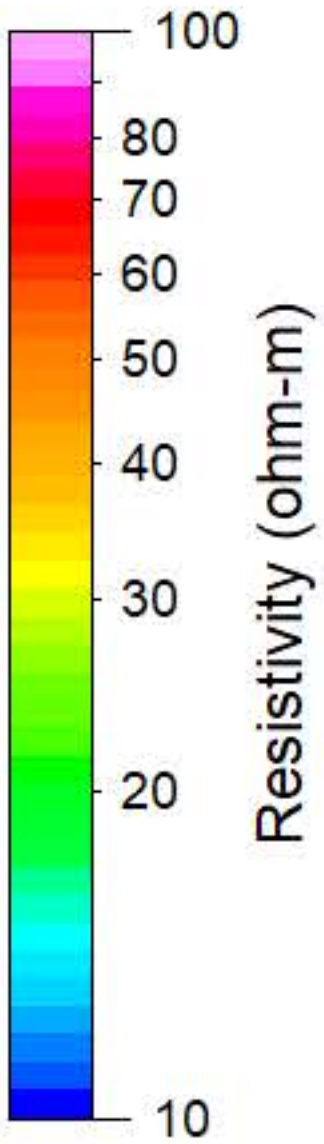
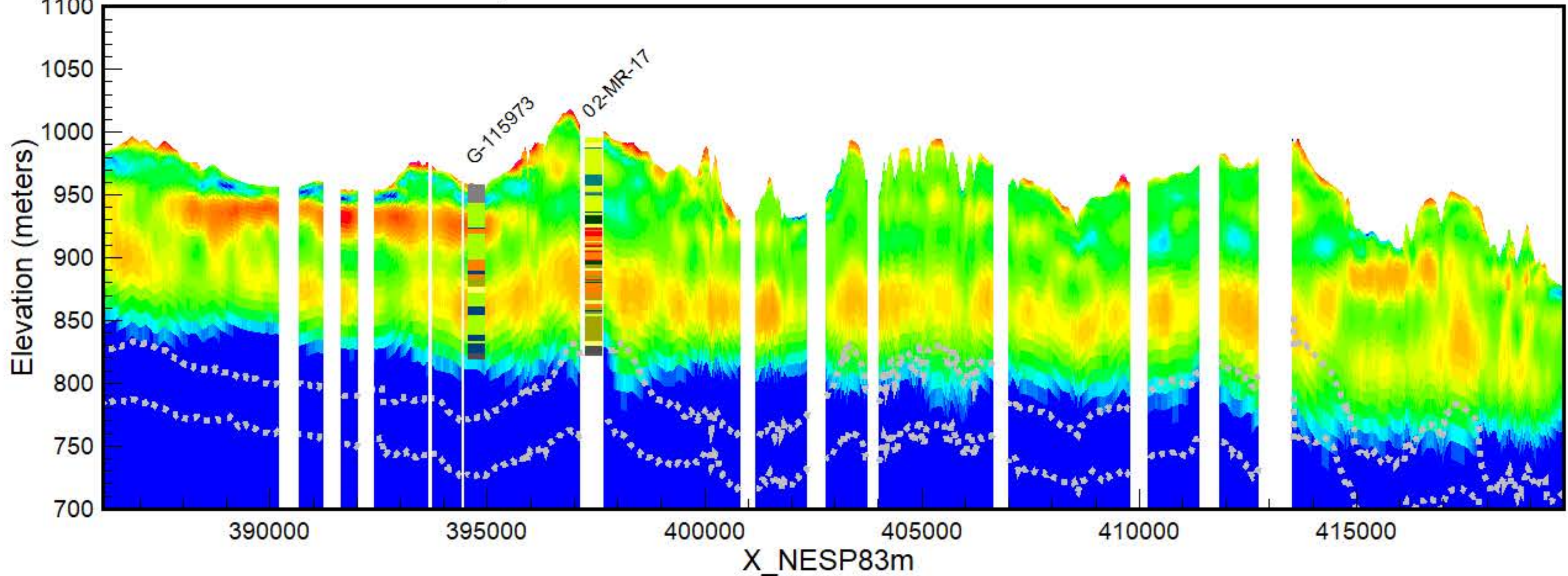
Flight Path Line L200201



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L200201



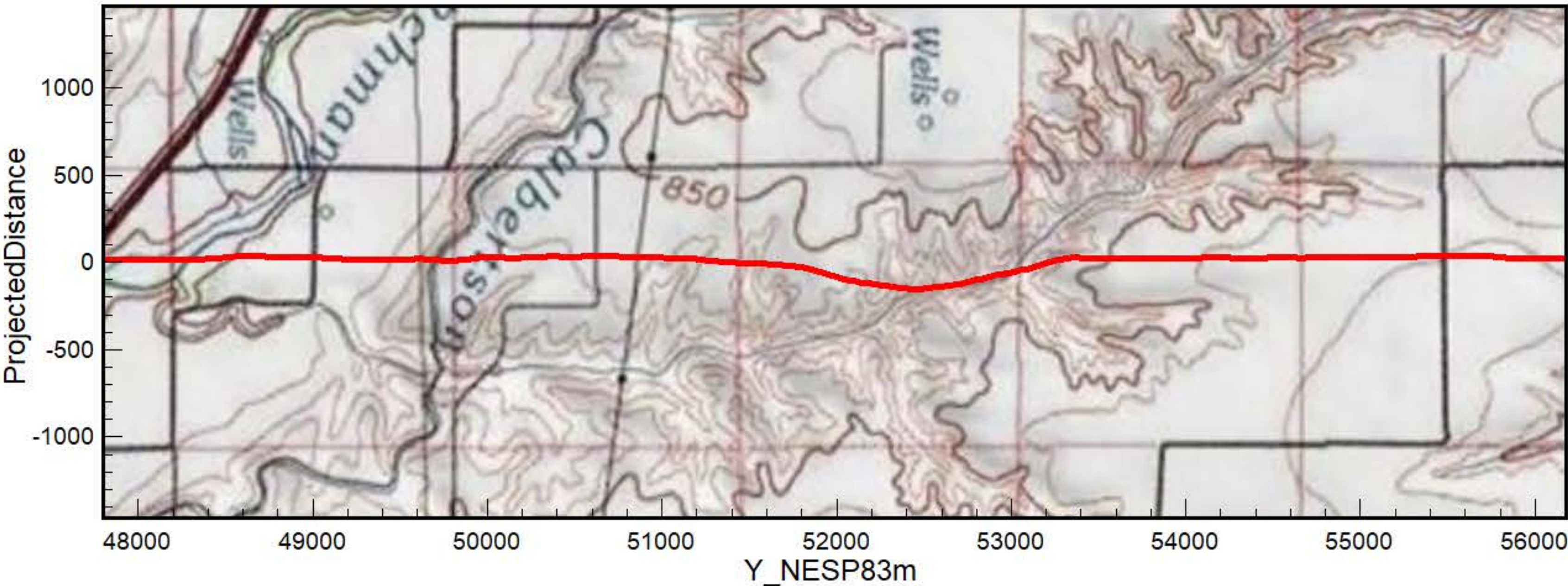
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Grave
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

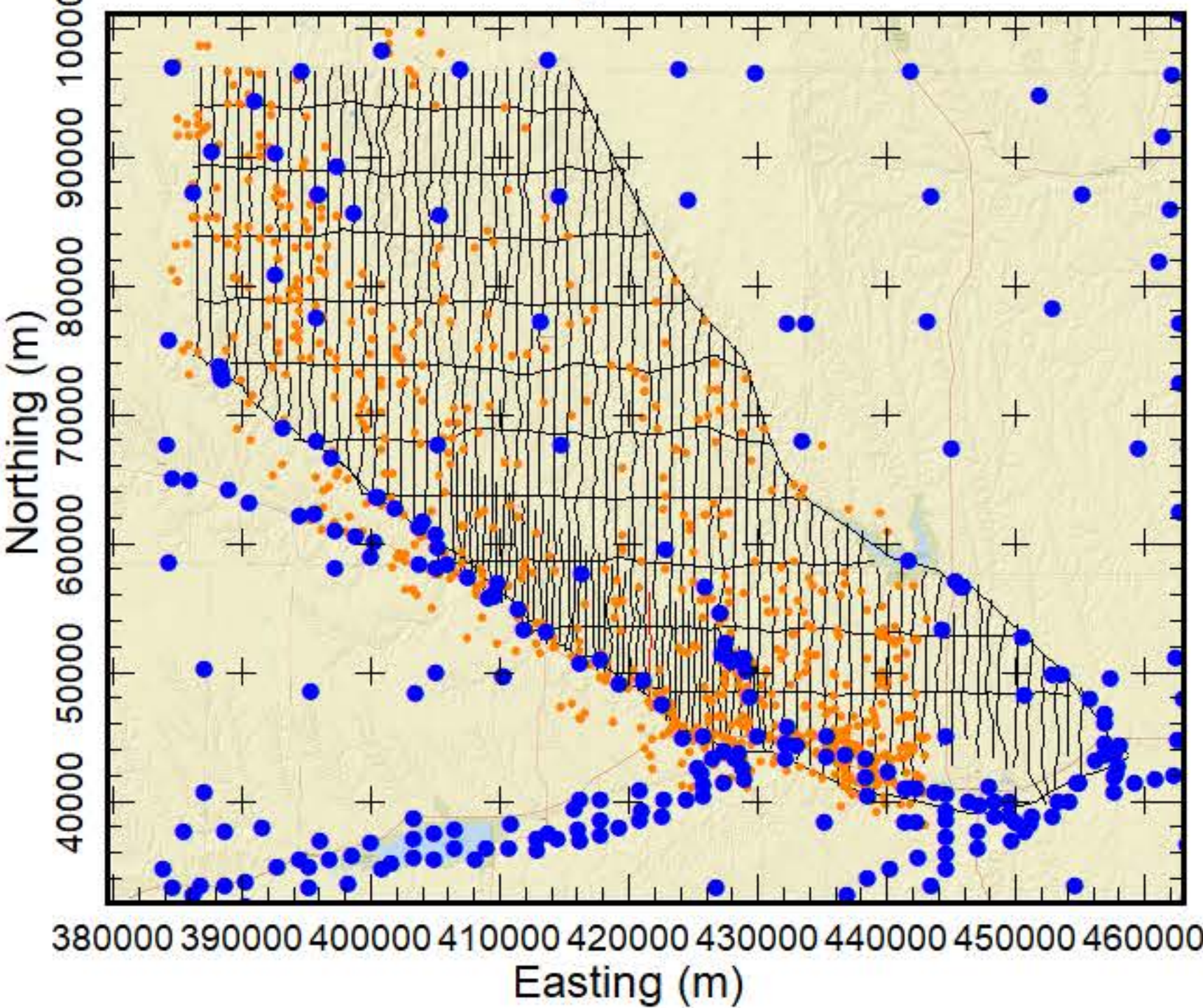




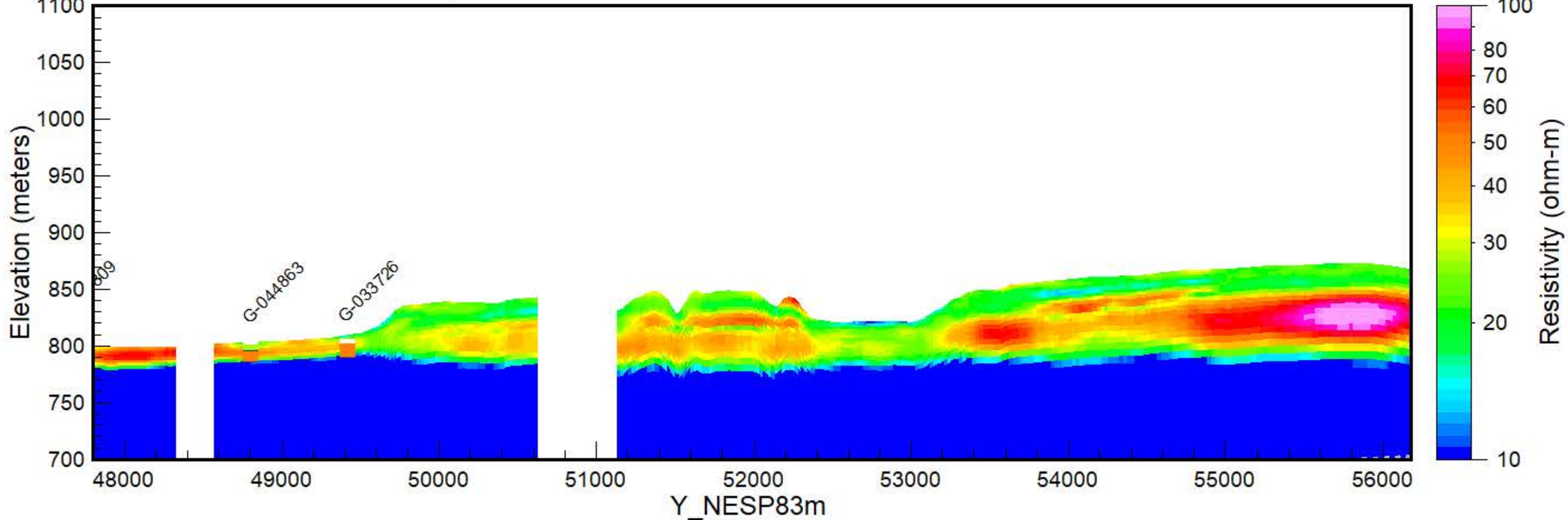
Flight Path Line L200202



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L200202



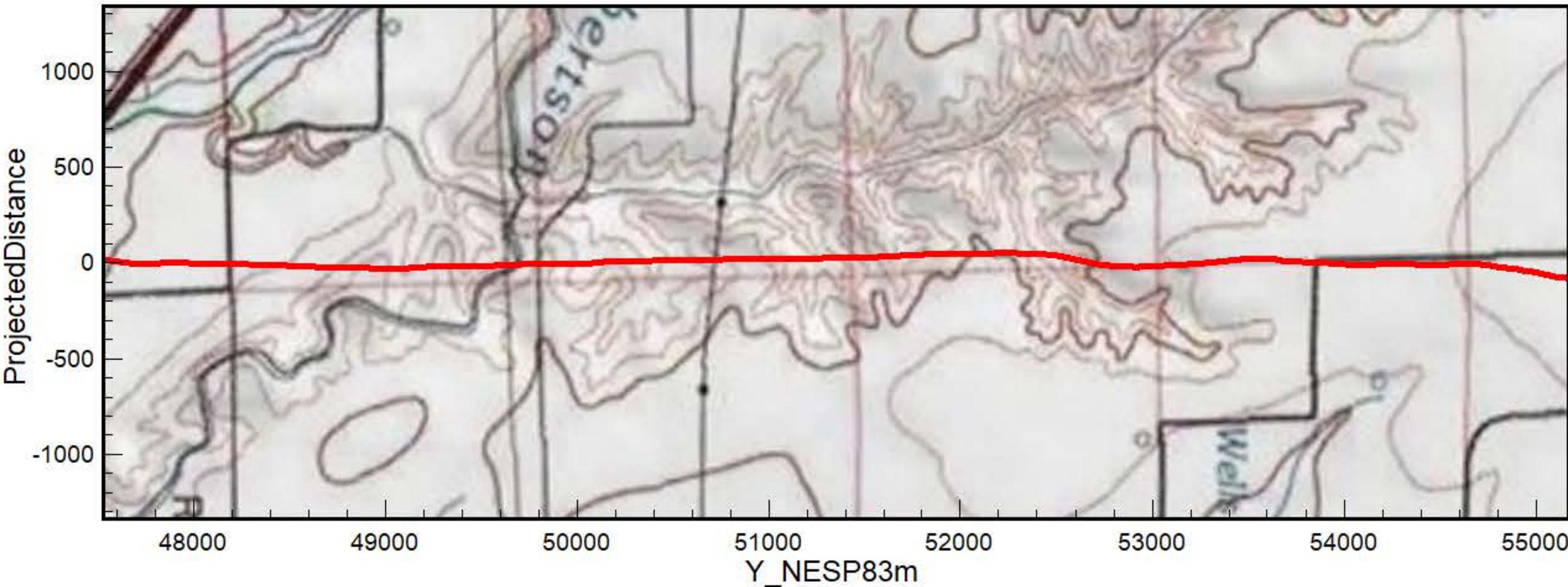
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

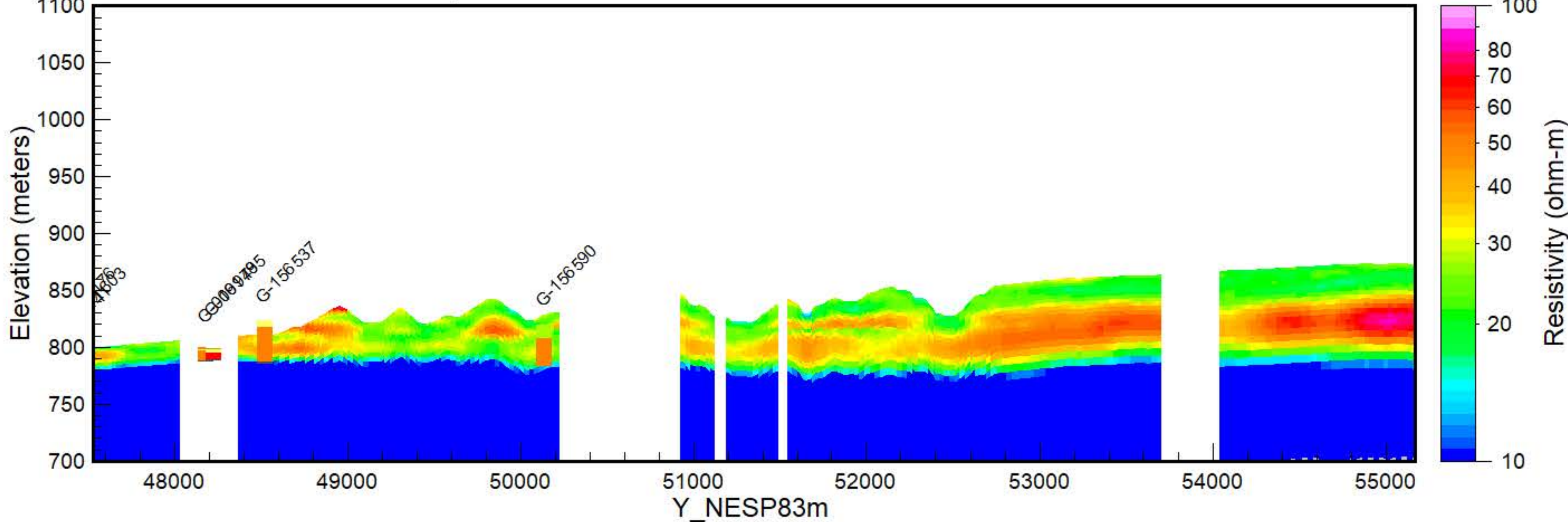




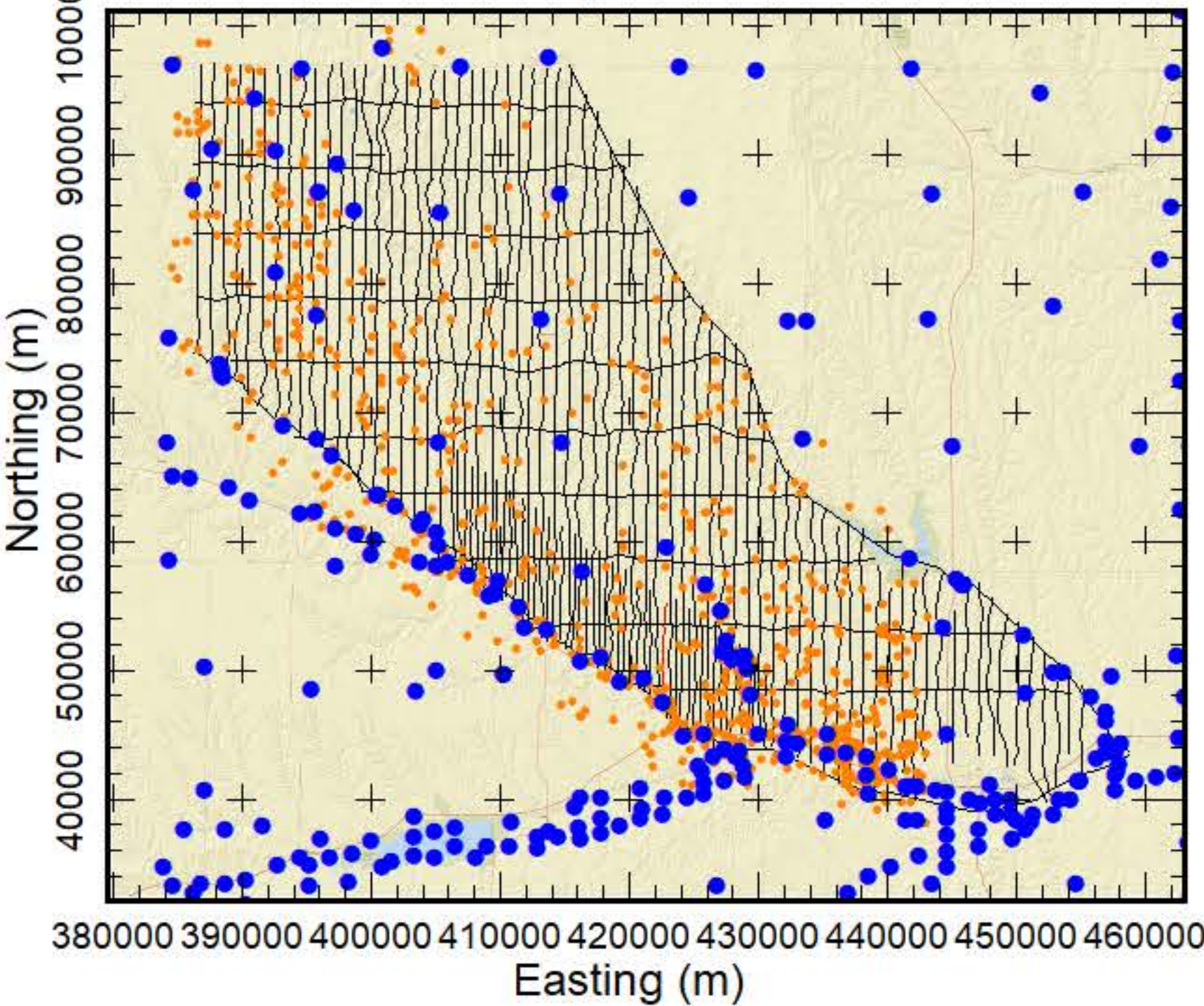
Flight Path Line L200203



AEM Inversion Resistivity Line L200203



MRNRD AEM Survey Area



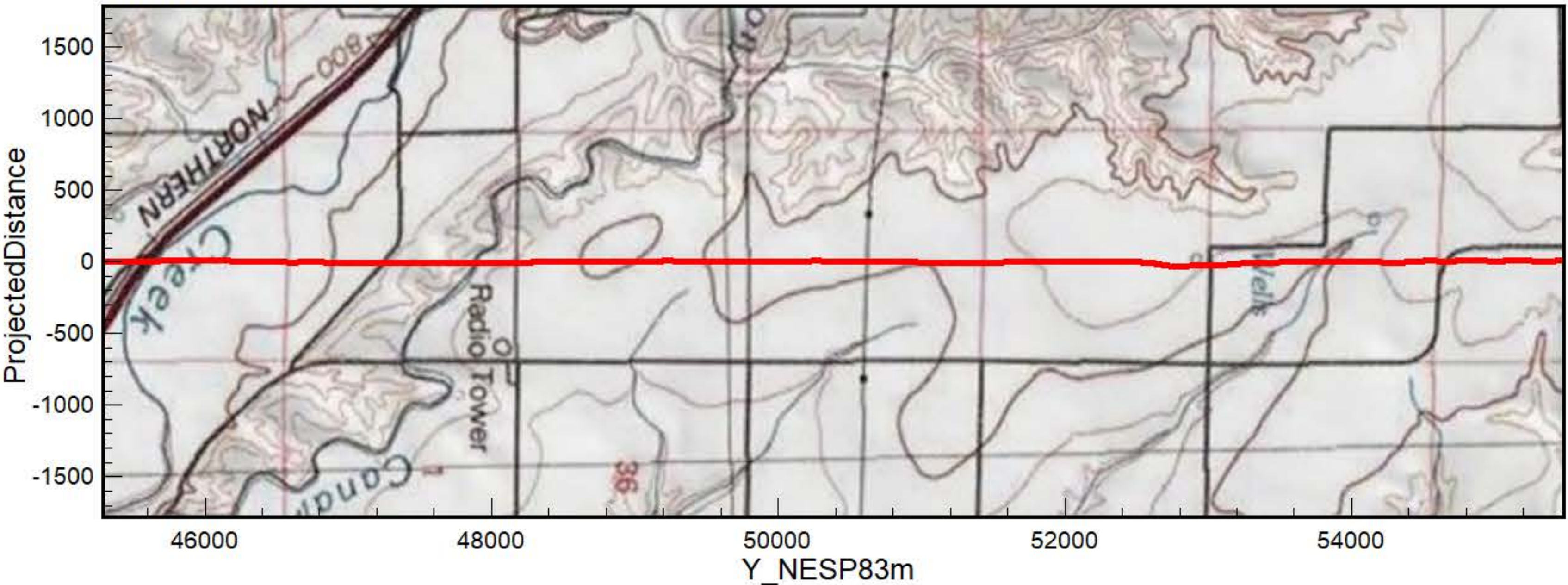
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

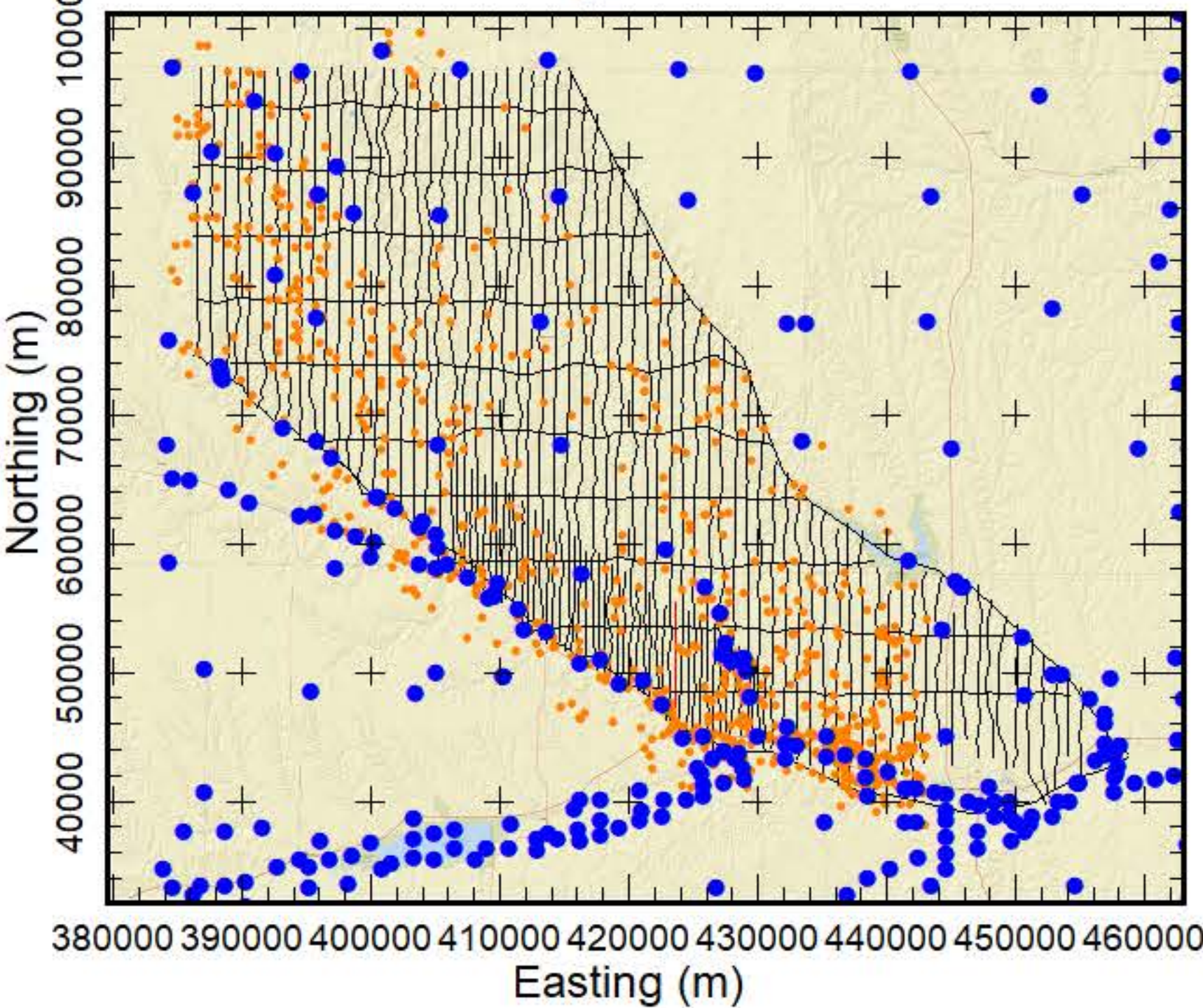




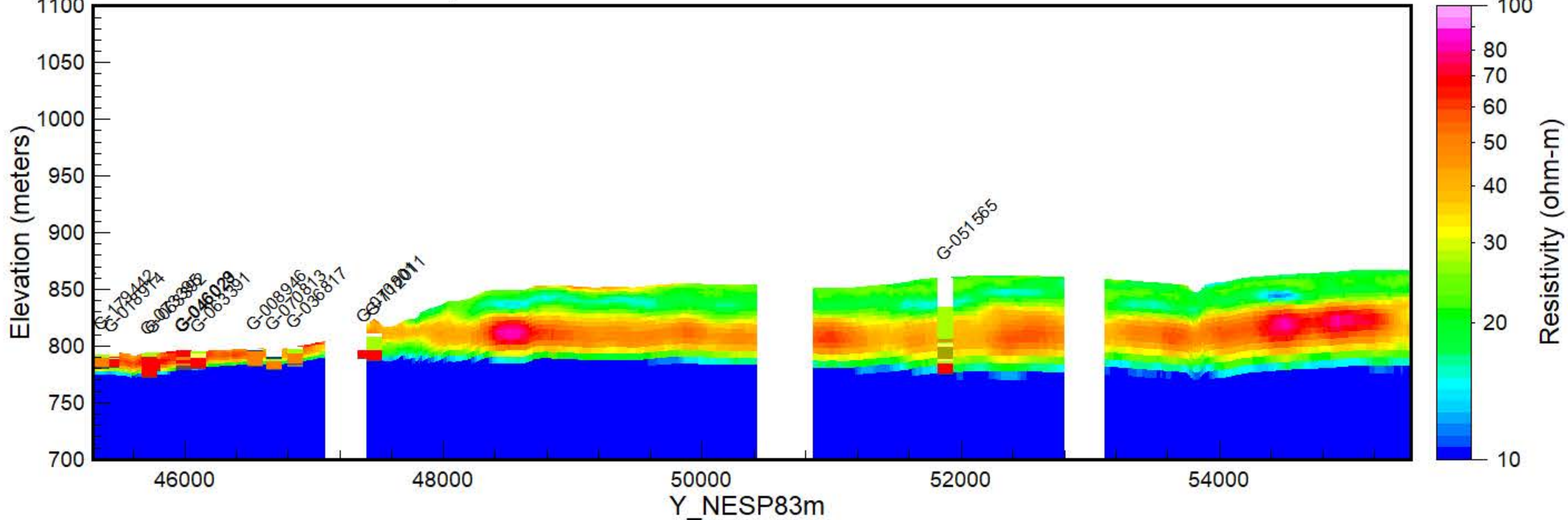
Flight Path Line L200204



MRNRD AEM Survey Area



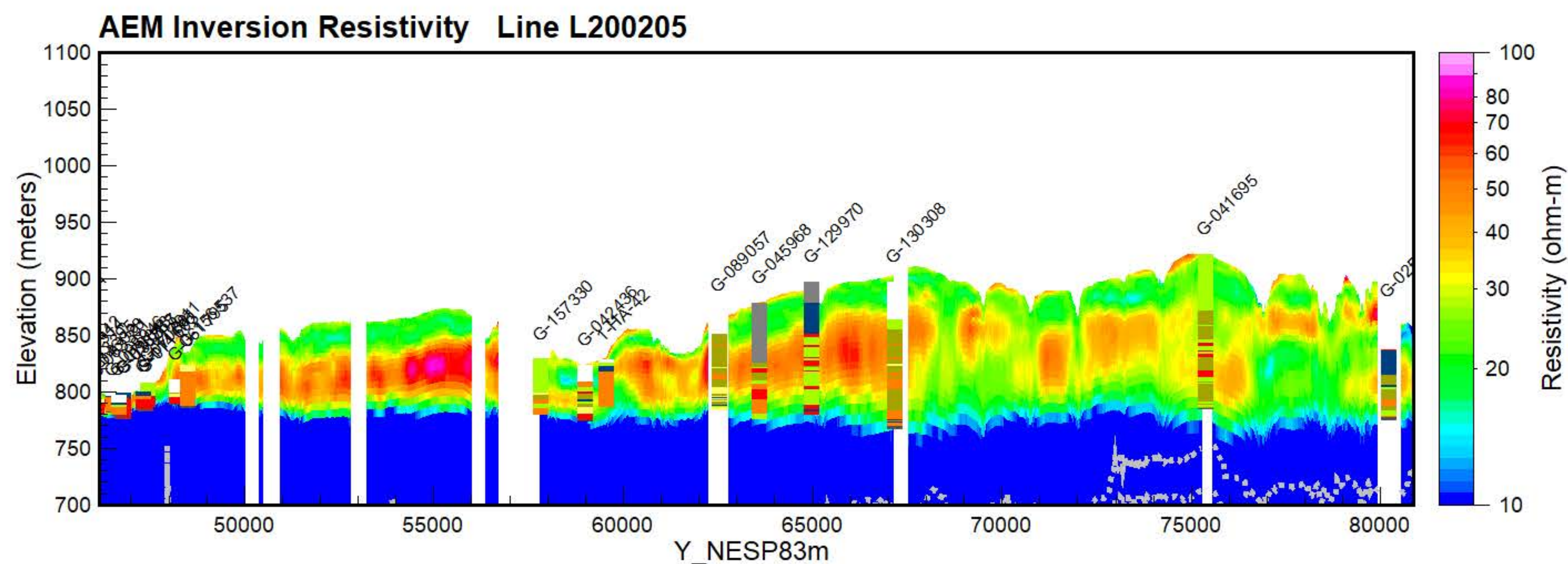
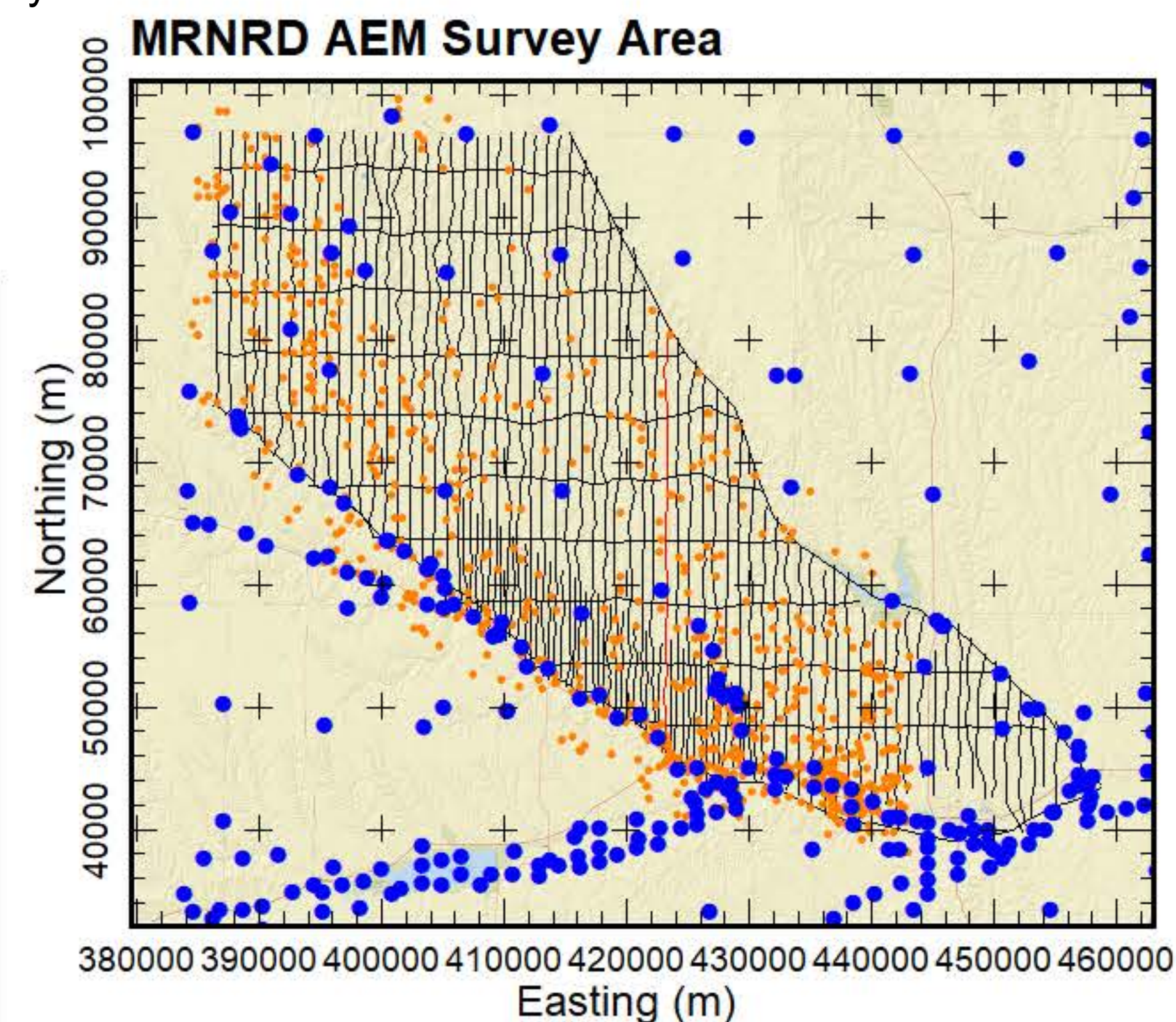
AEM Inversion Resistivity Line L200204



	Limestone
	Sandstone and Sand
	Sandstone and Shale
	Sandstone
	Siltstone
	Mudstone
	Gravel and Shale
	Sand and Shale
	Shale and Sandstone
	Shale and Clay
	Clay and Shale
	Shale
	Clayey Shale/Claystone
	Sandstone and Gravel
	Gravel and Sandstone
	Coarse-Gravel
	Medium-Coarse-Grave
	Fine-Medium-Gravel
	Medium-Gravel
	Gravel/Boulders
	Fine-Medium-Coarse-Gravel
	Fine-Coarse-Gravel
	Fine-Gravel
	Gravel and Sand
	Gravel and Silt
	Sand and Gravel
	Coarse-Sand
	Medium-Coarse-Sand
	Medium-Sand
	Sand
	Fine-Medium-Coarse-Sand
	Fine-Coarse-Sand
	Fine-Medium-Sand
	Fine-Sand
	Sand and Silt
	Silt and Gravel
	Silty Sand
	Silt/Loess
	Till
	Silt and Clay
	Gravel and Clay
	Clay and Gravel
	Sandy Clay
	Clay and Sand
	Clay
	Clay and Silt
	Roadfill and/or Topsoil

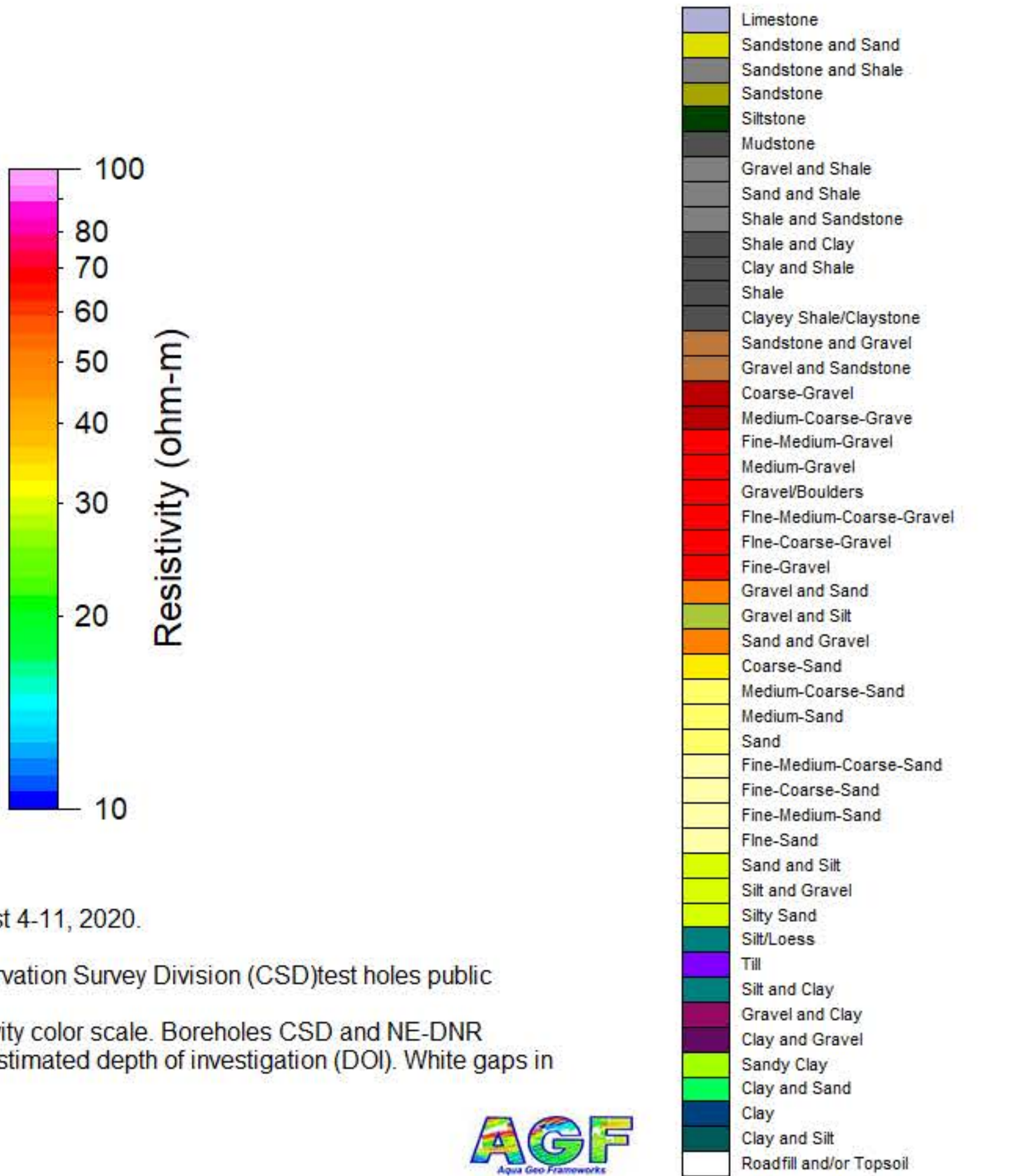
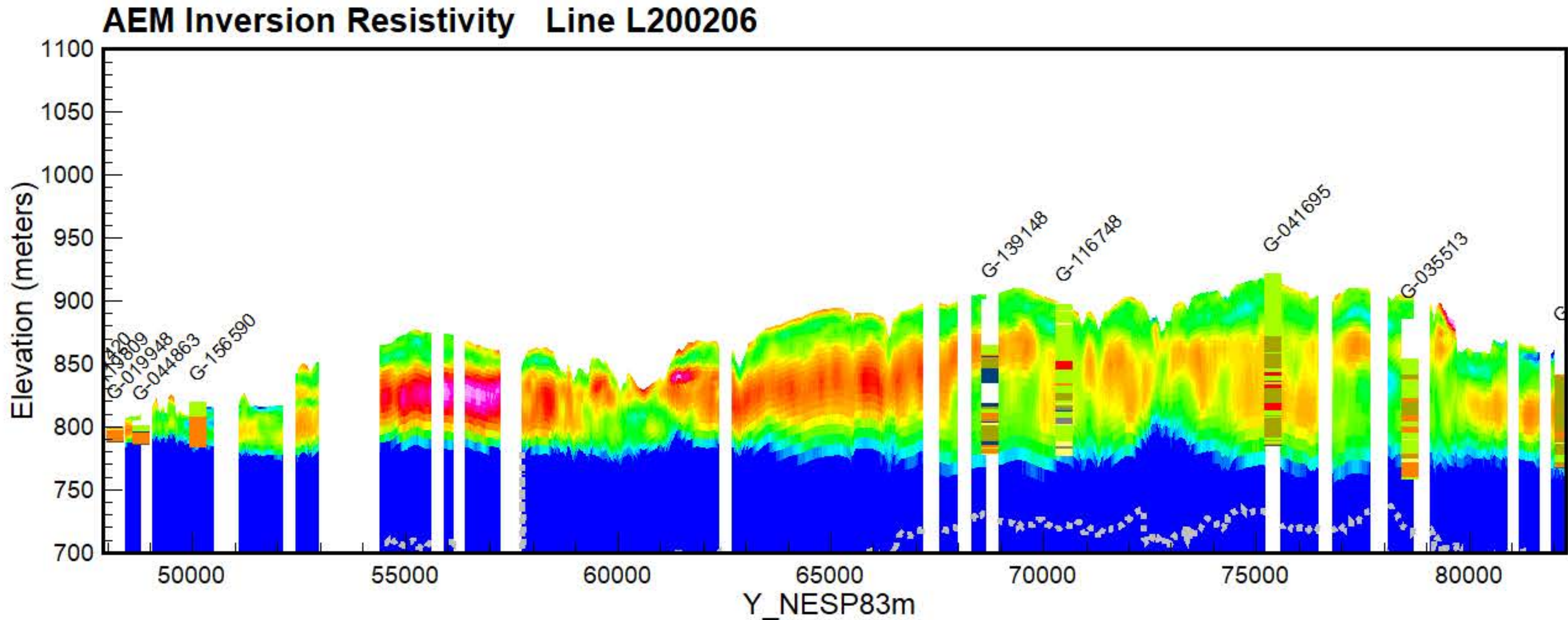
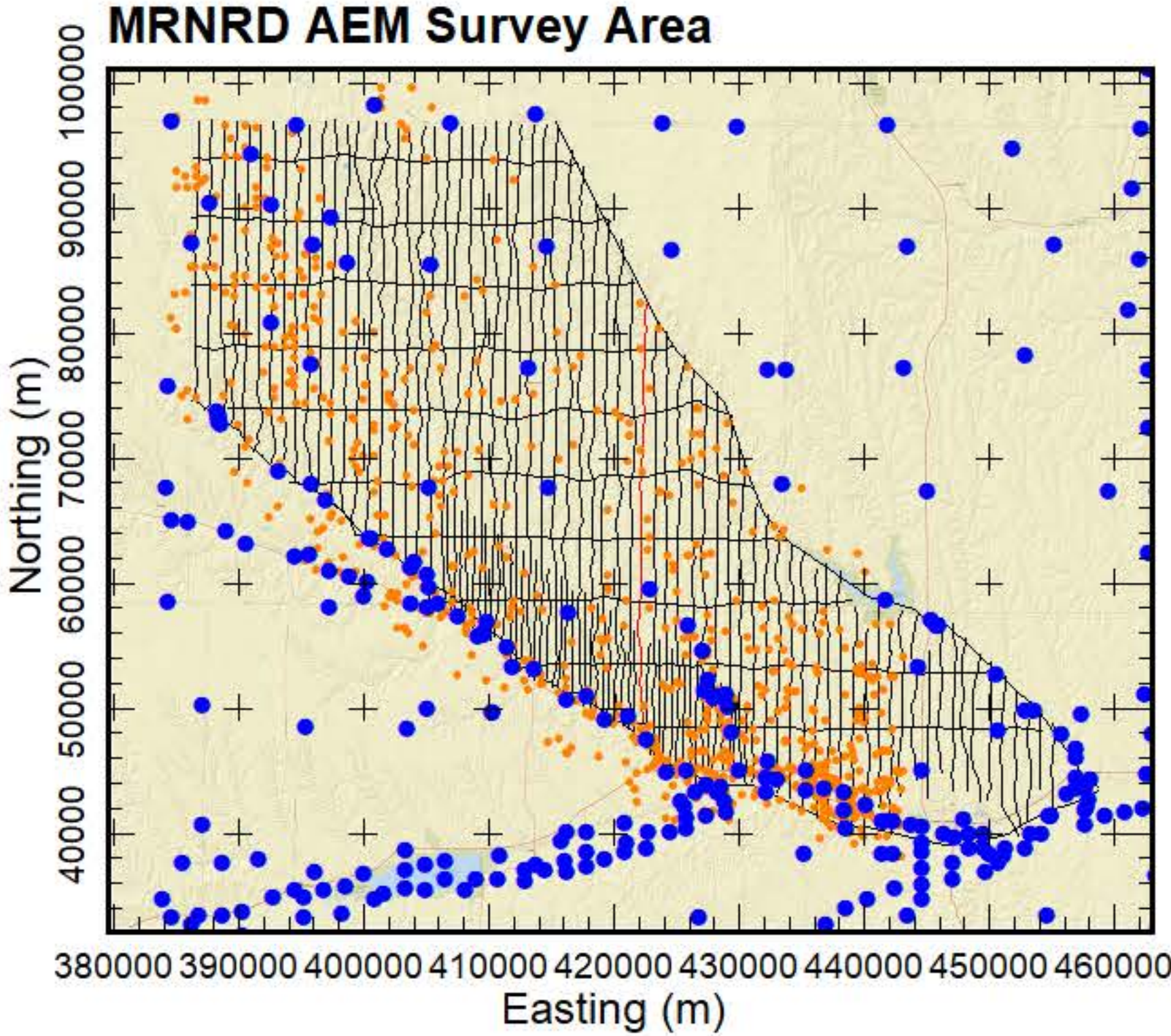
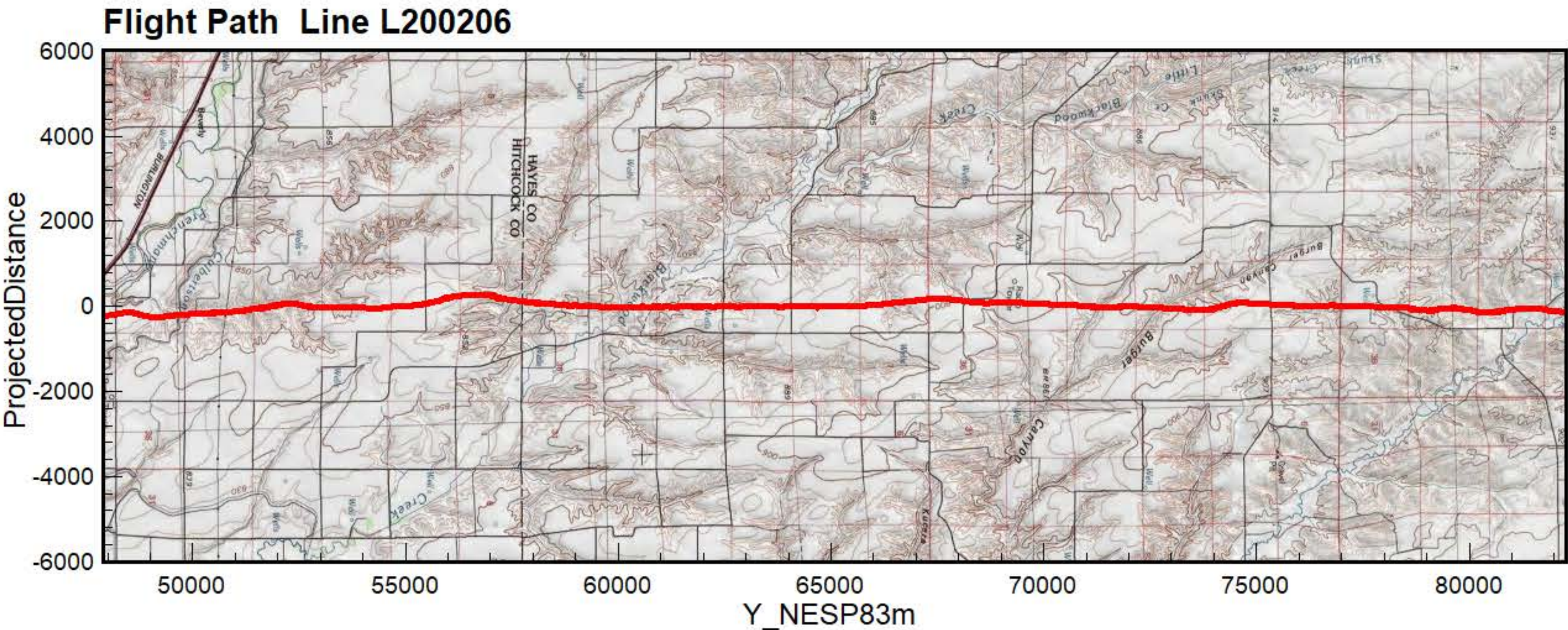
Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).





The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).



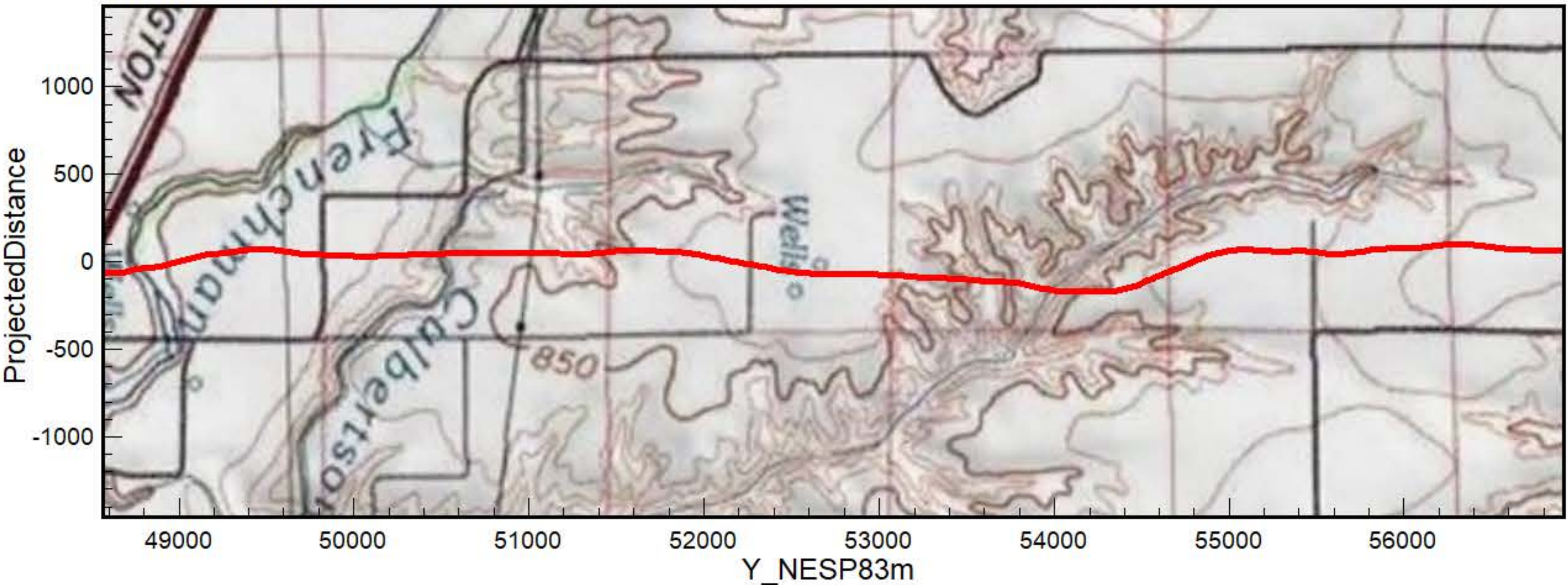


Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

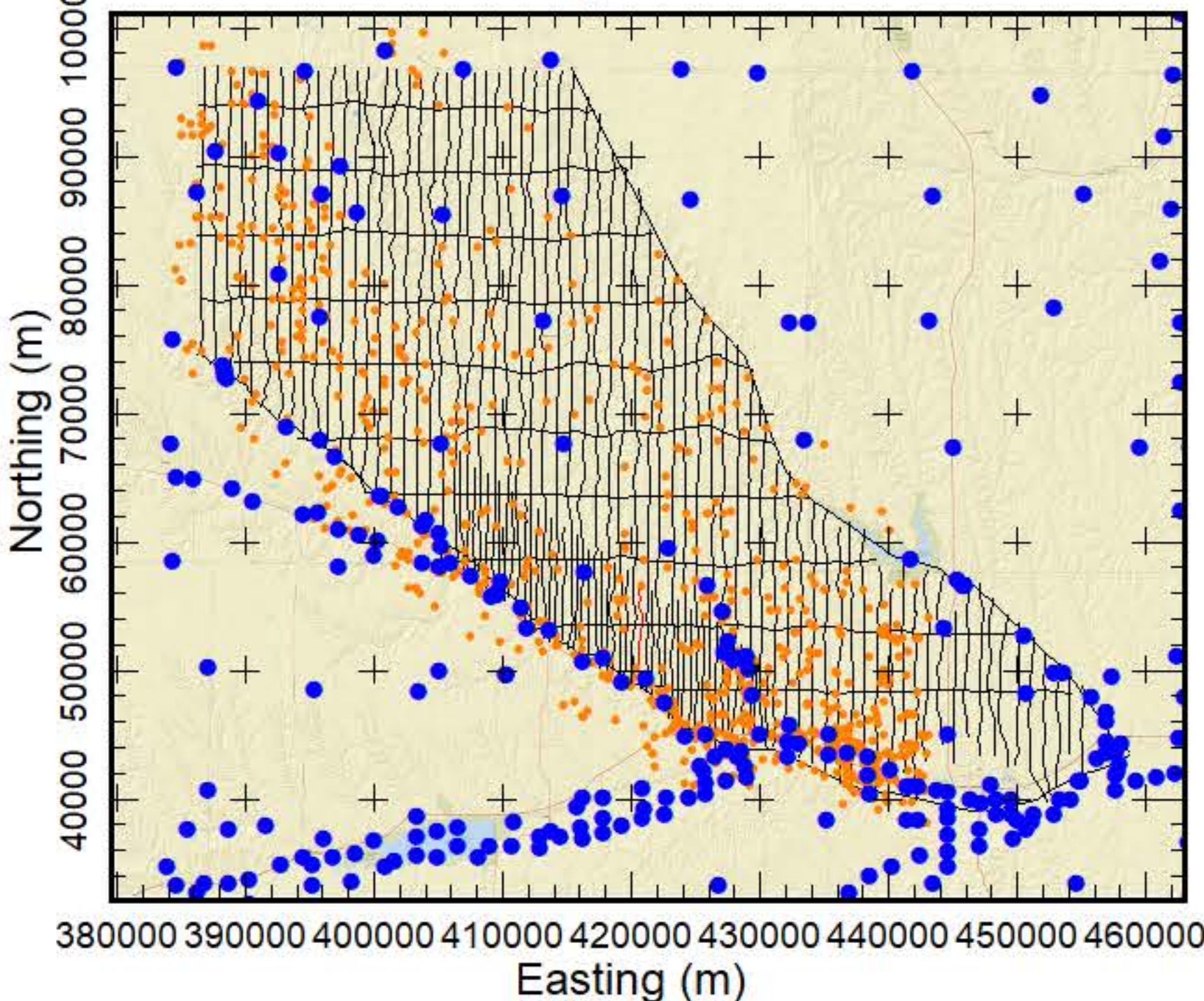




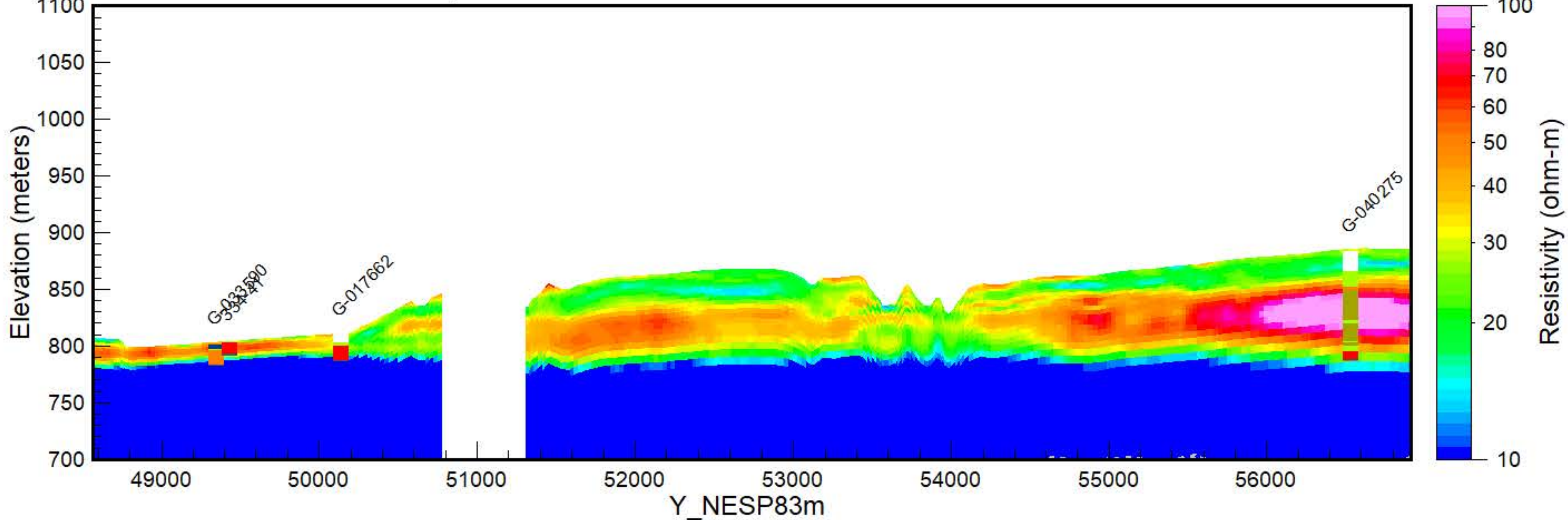
Flight Path Line L200207



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L200207



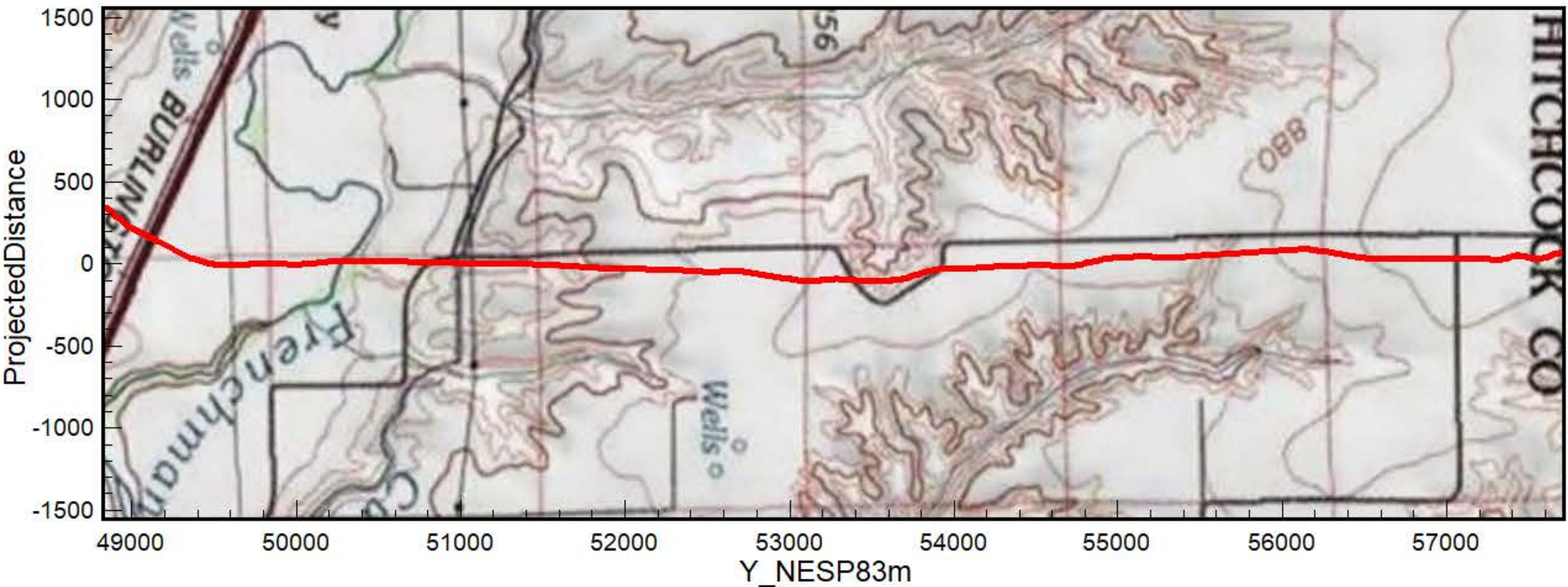
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

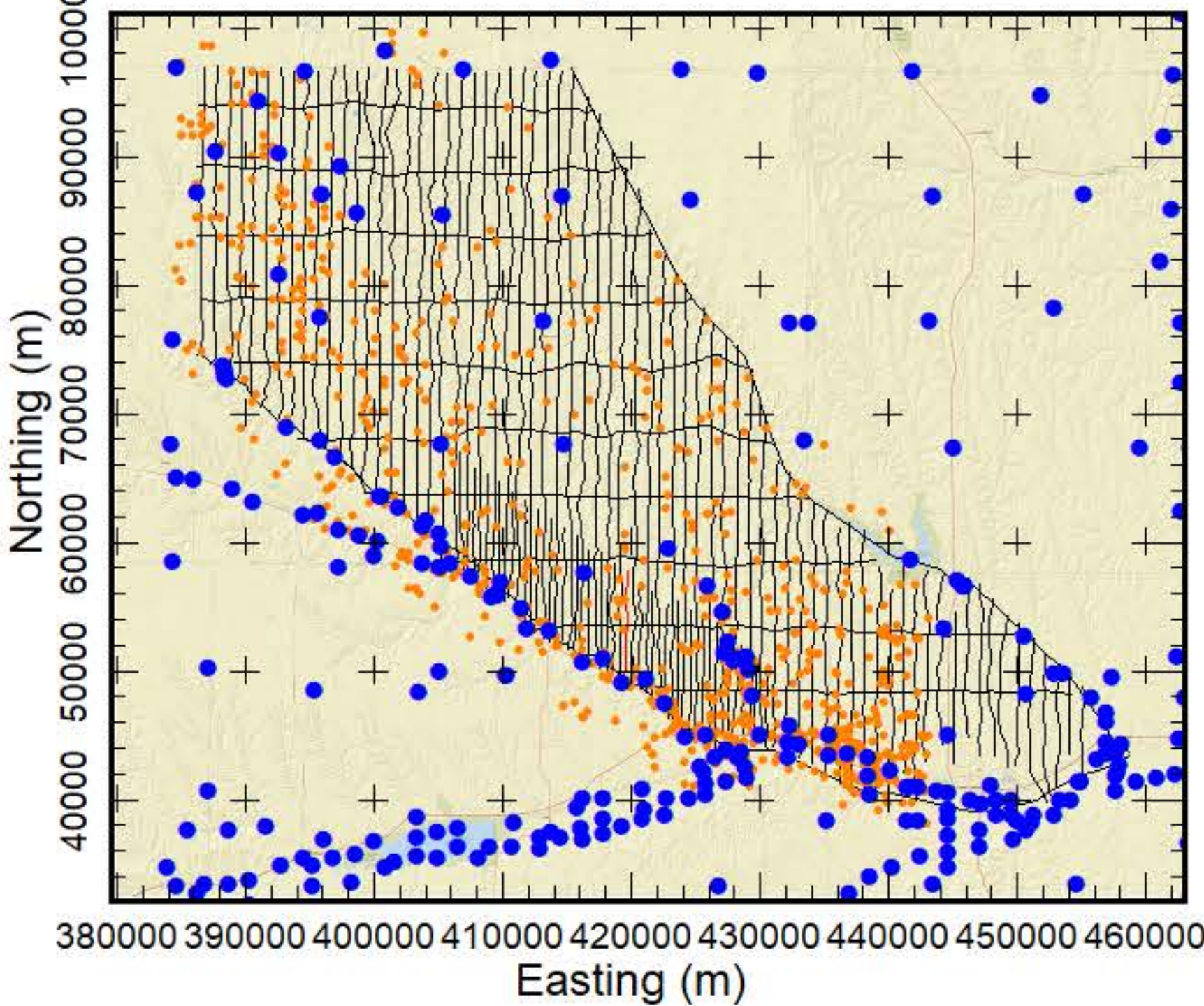




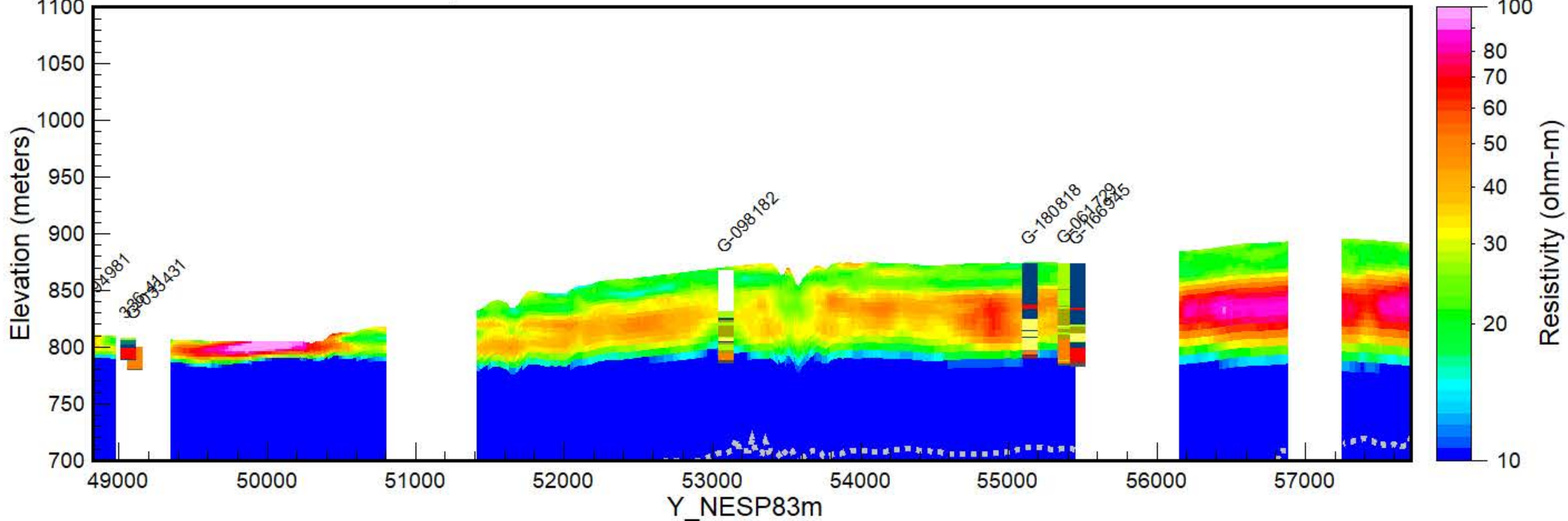
Flight Path Line L200208



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L200208



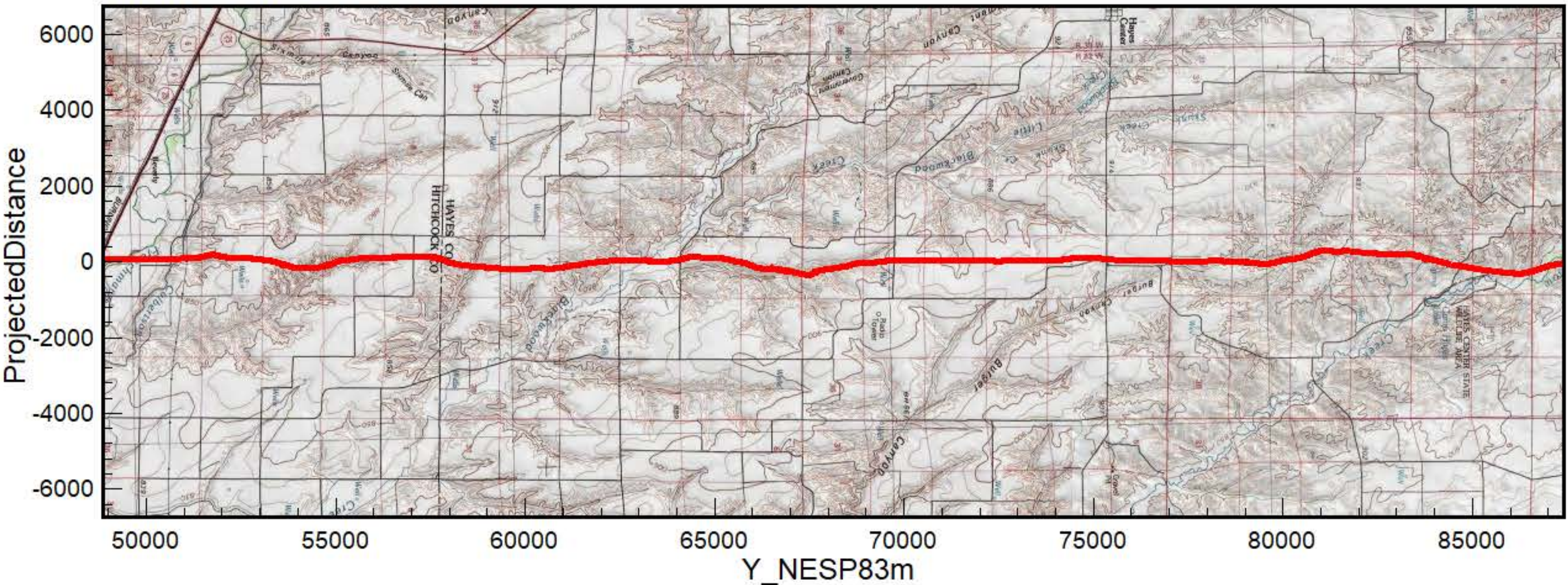
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

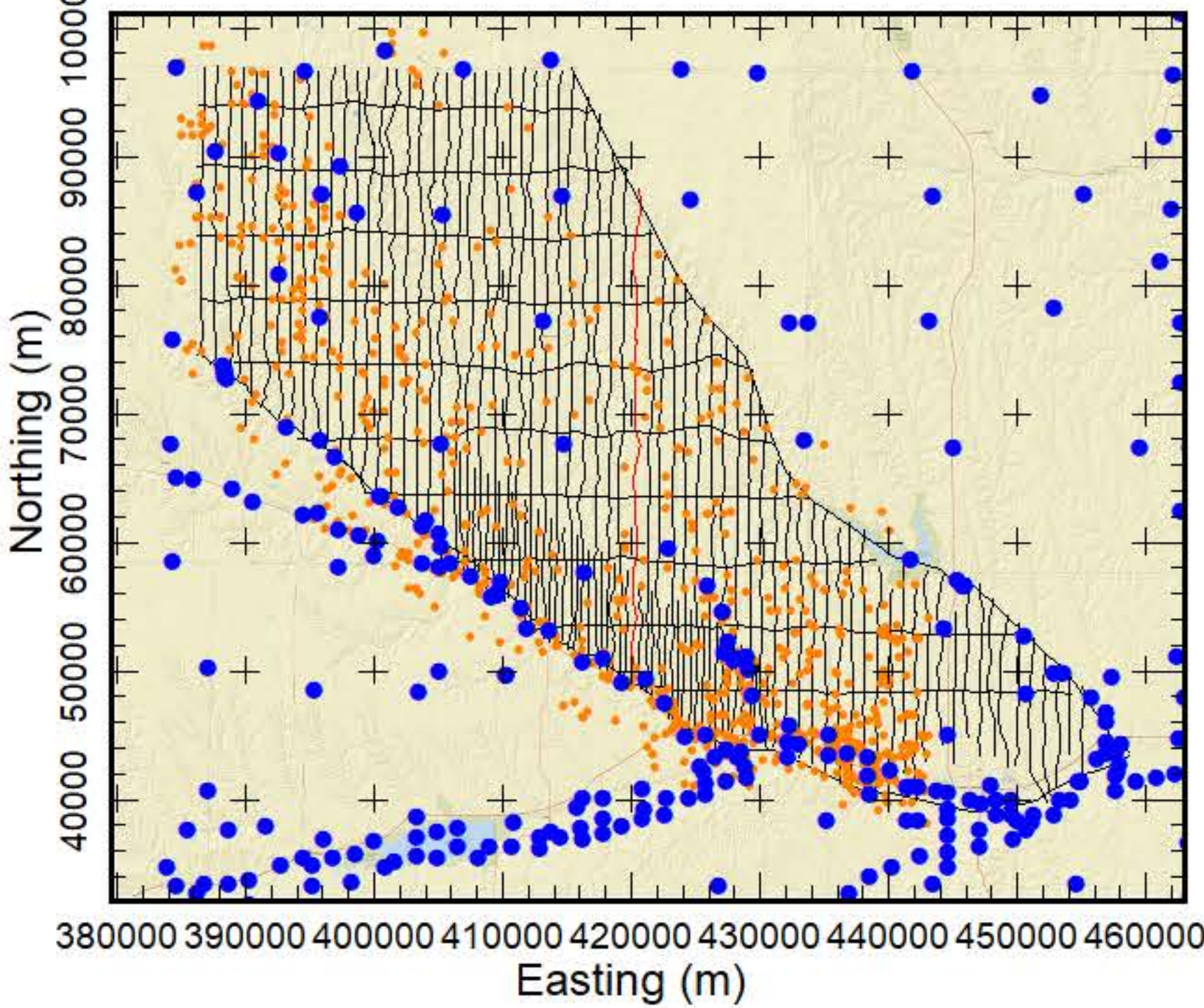




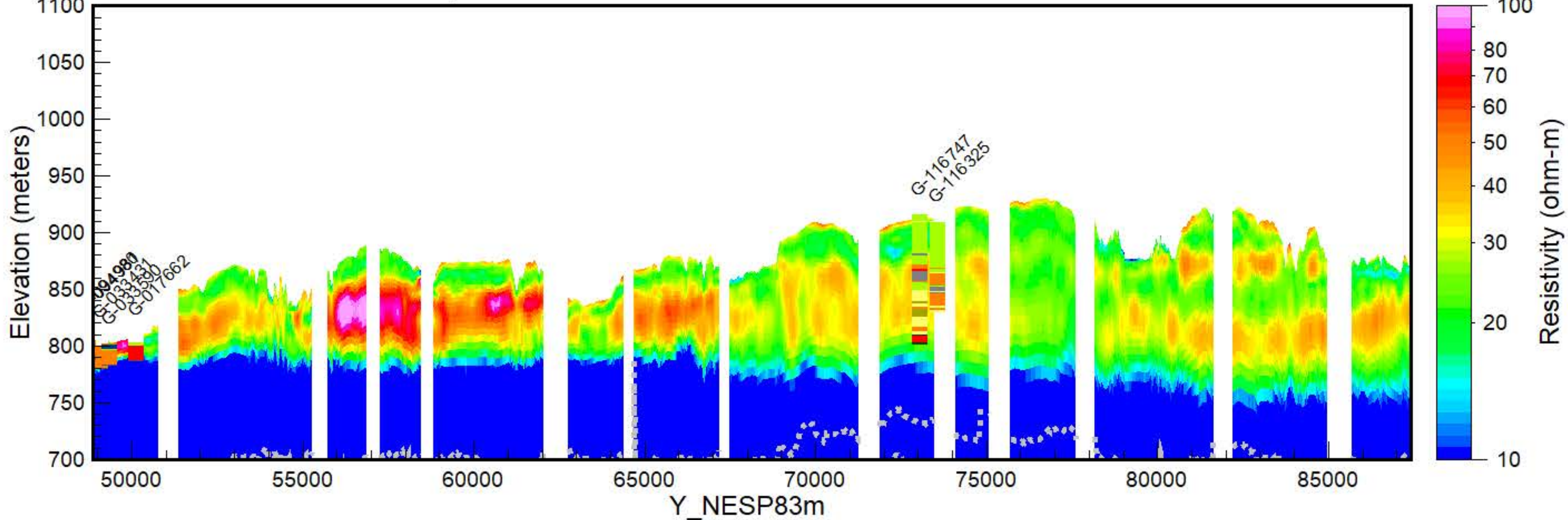
Flight Path Line L200209



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L200209



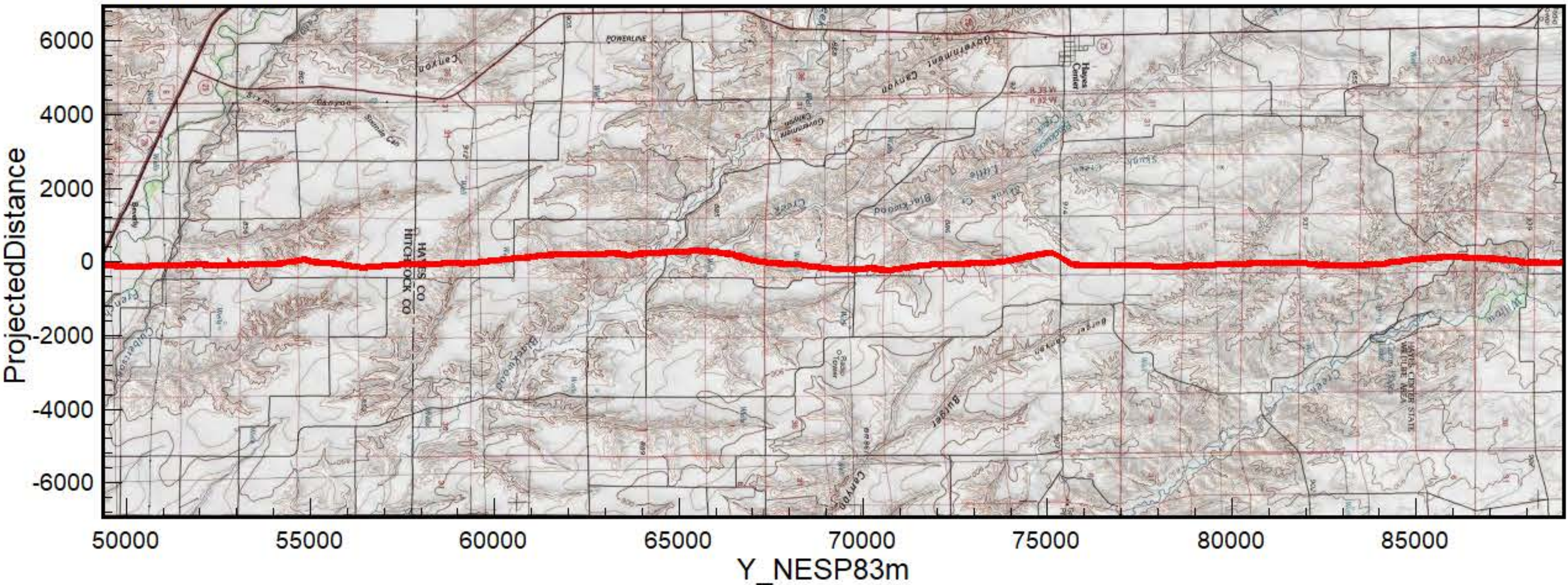
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Grave
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

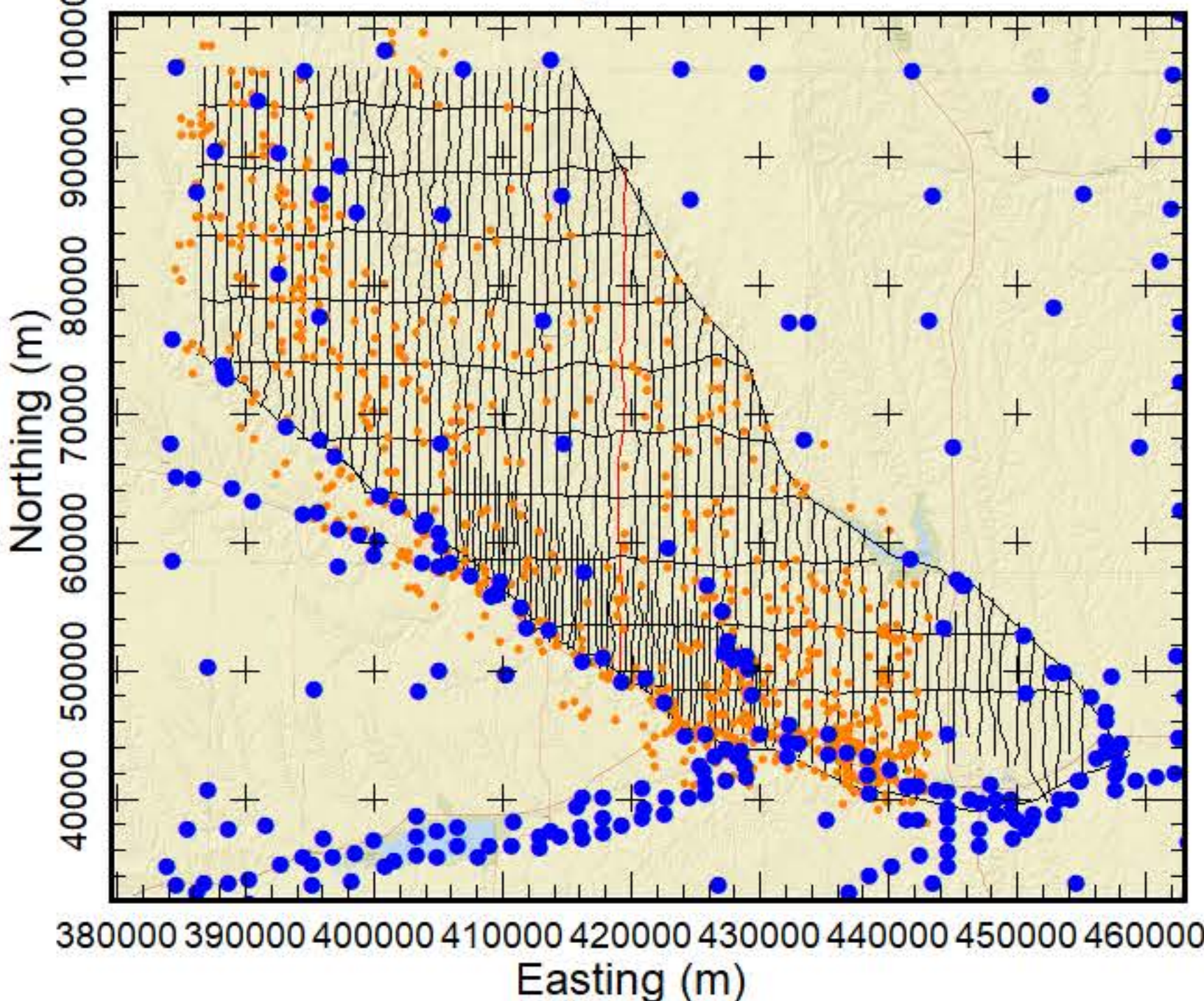




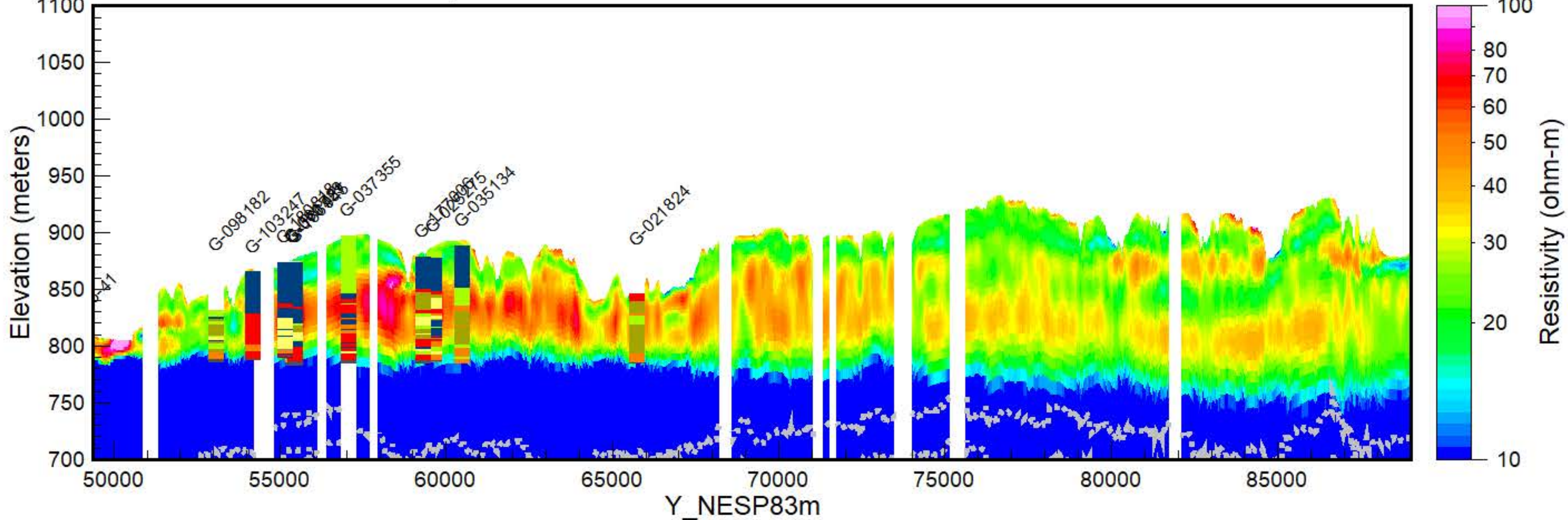
Flight Path Line L200210



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L200210



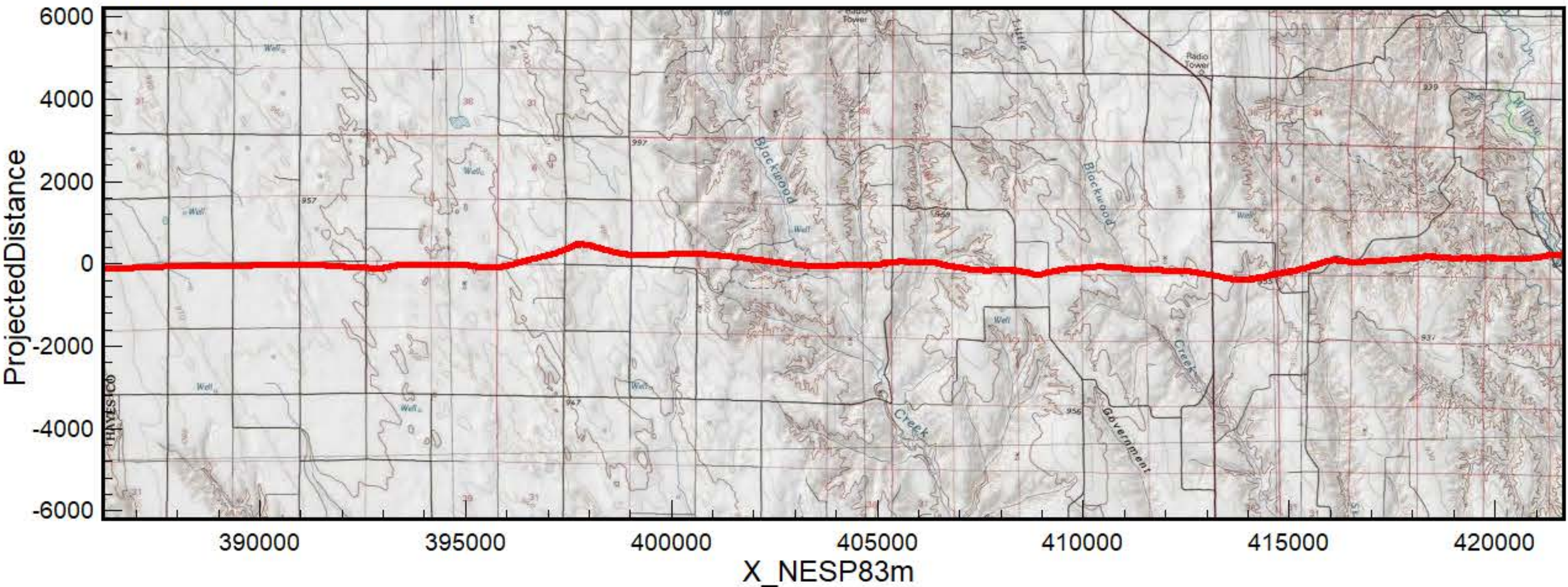
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

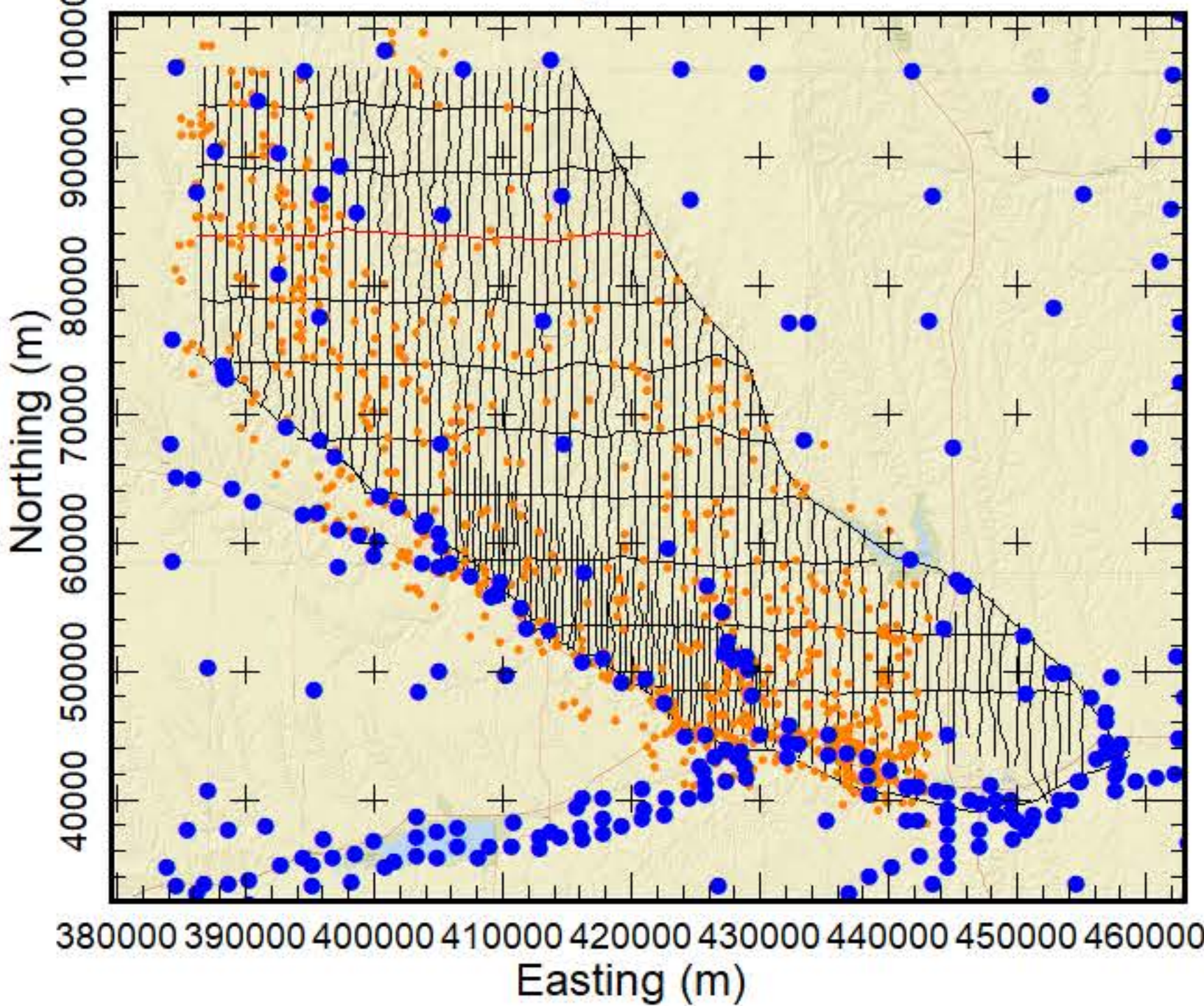




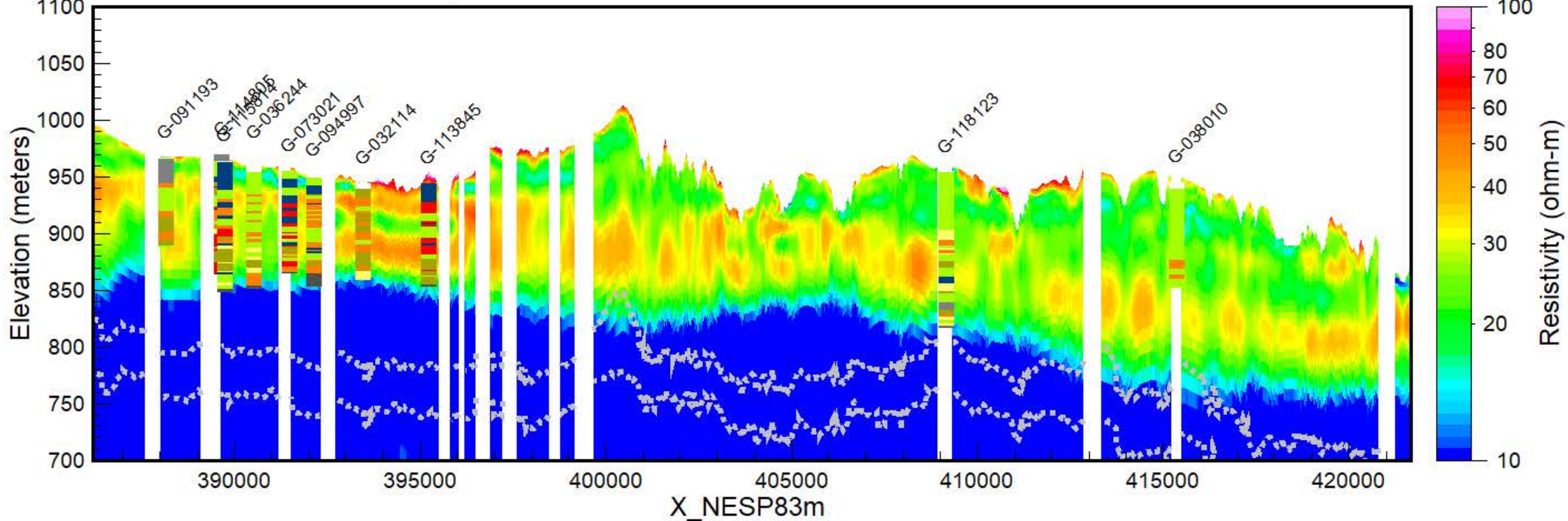
Flight Path Line L200301



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L200301



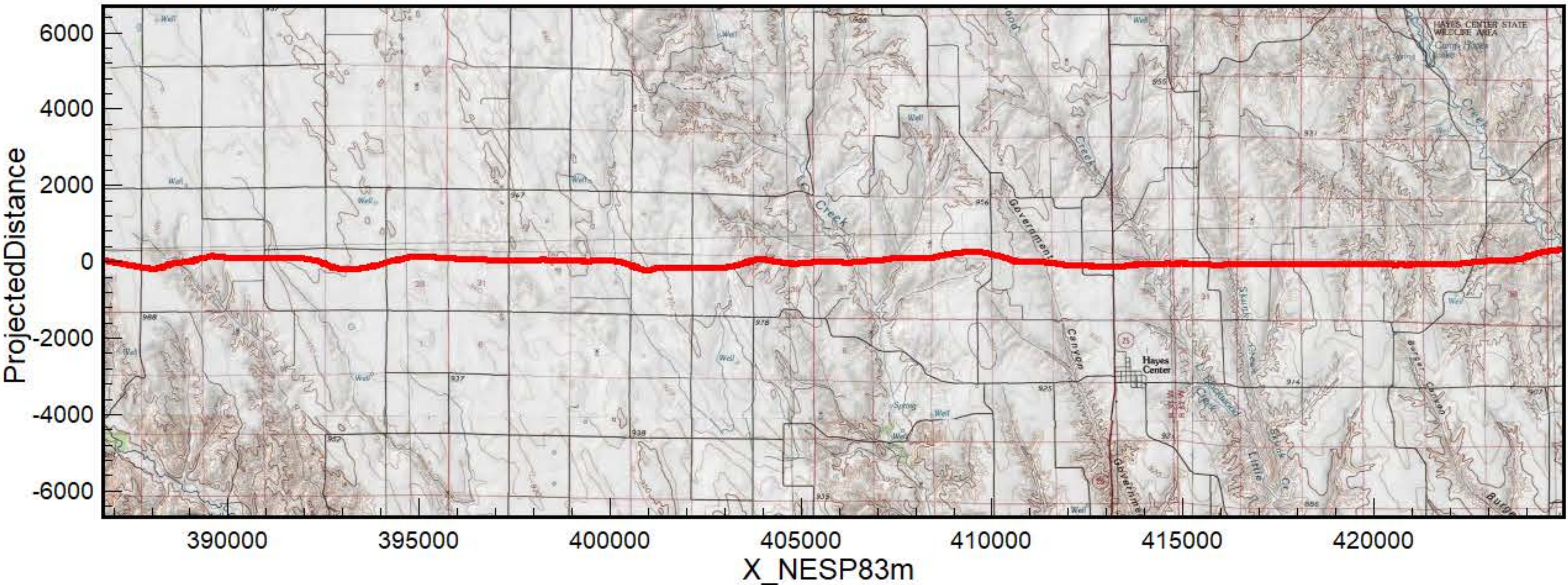
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Grave
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

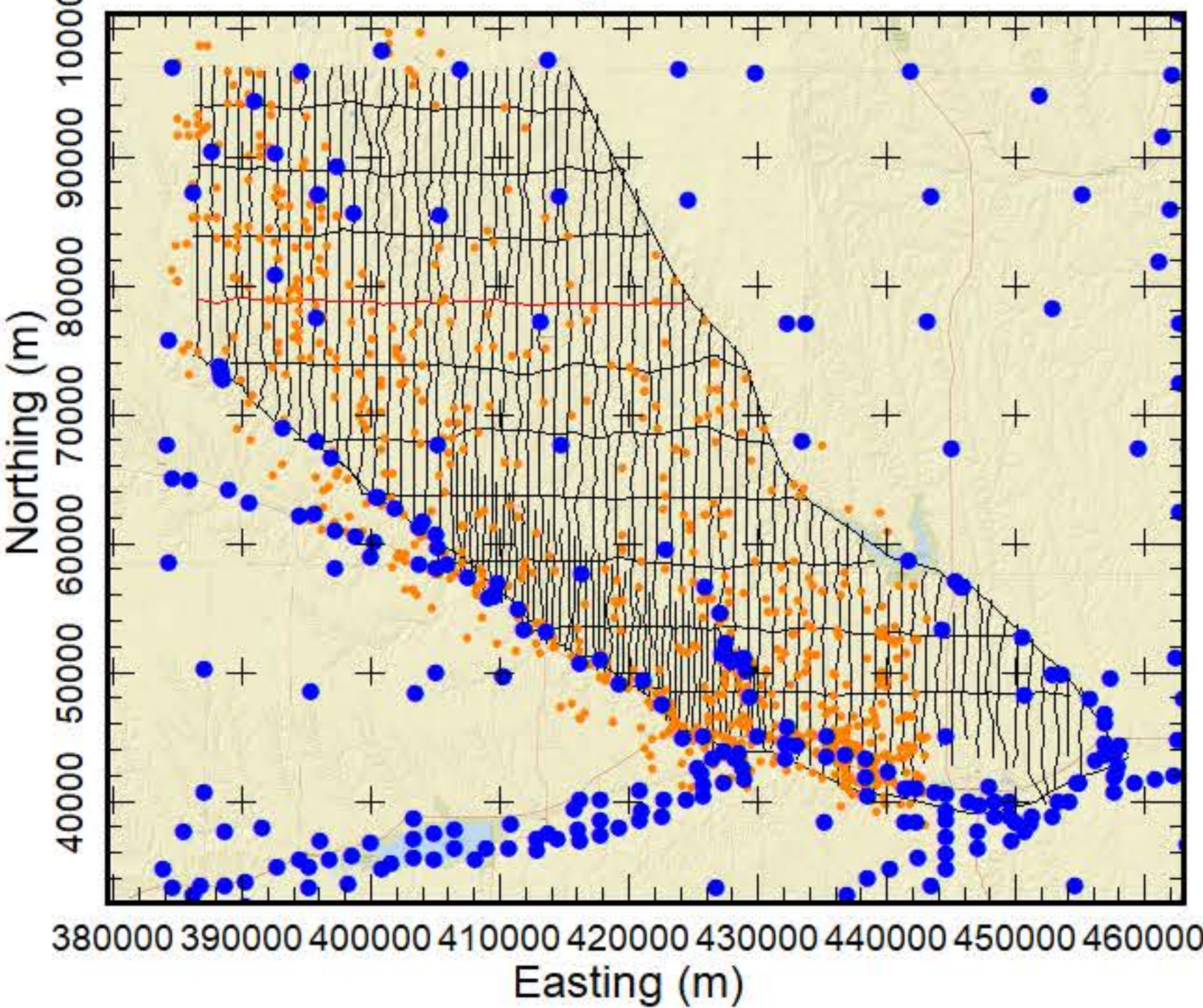




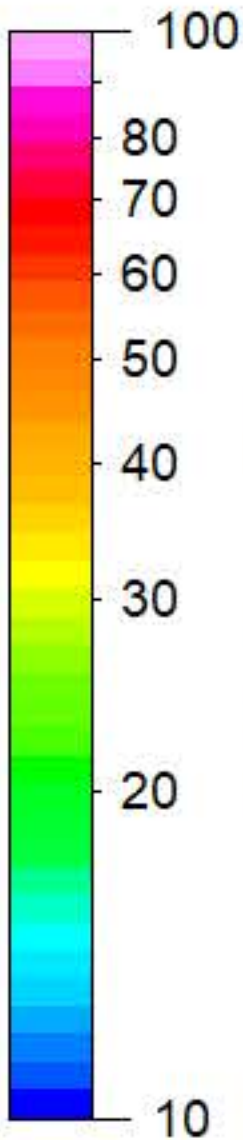
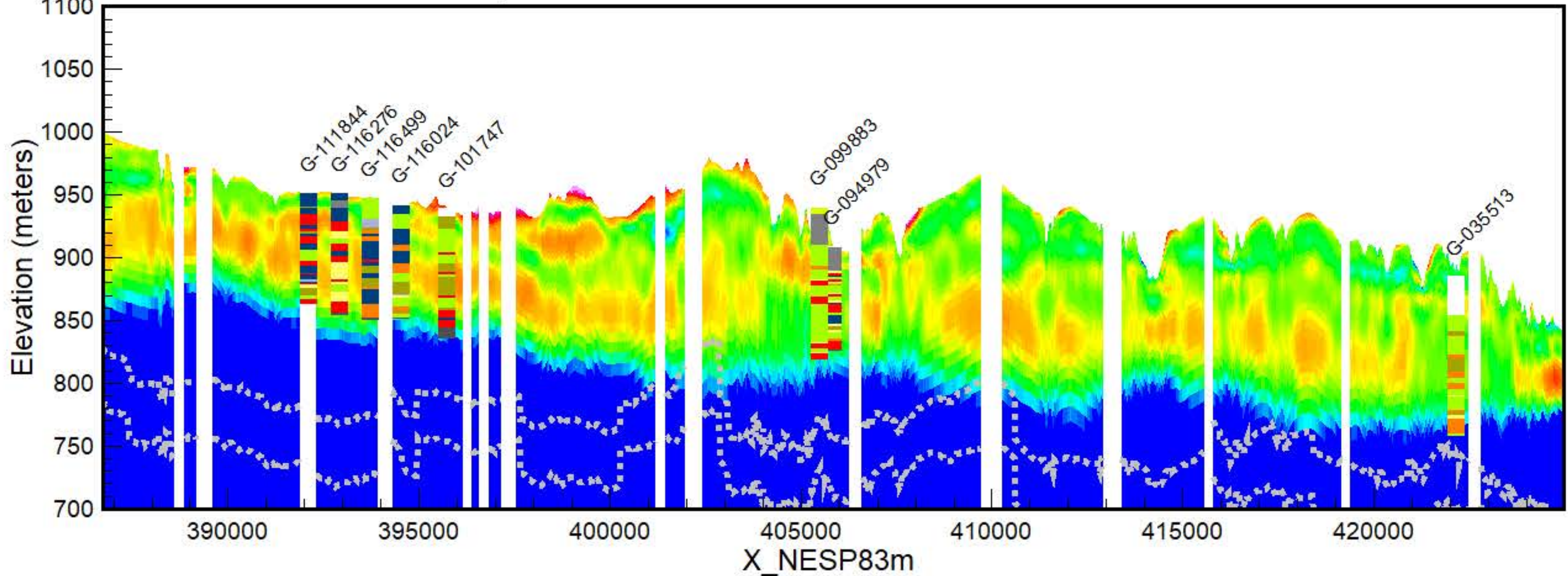
Flight Path Line L200401



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L200401



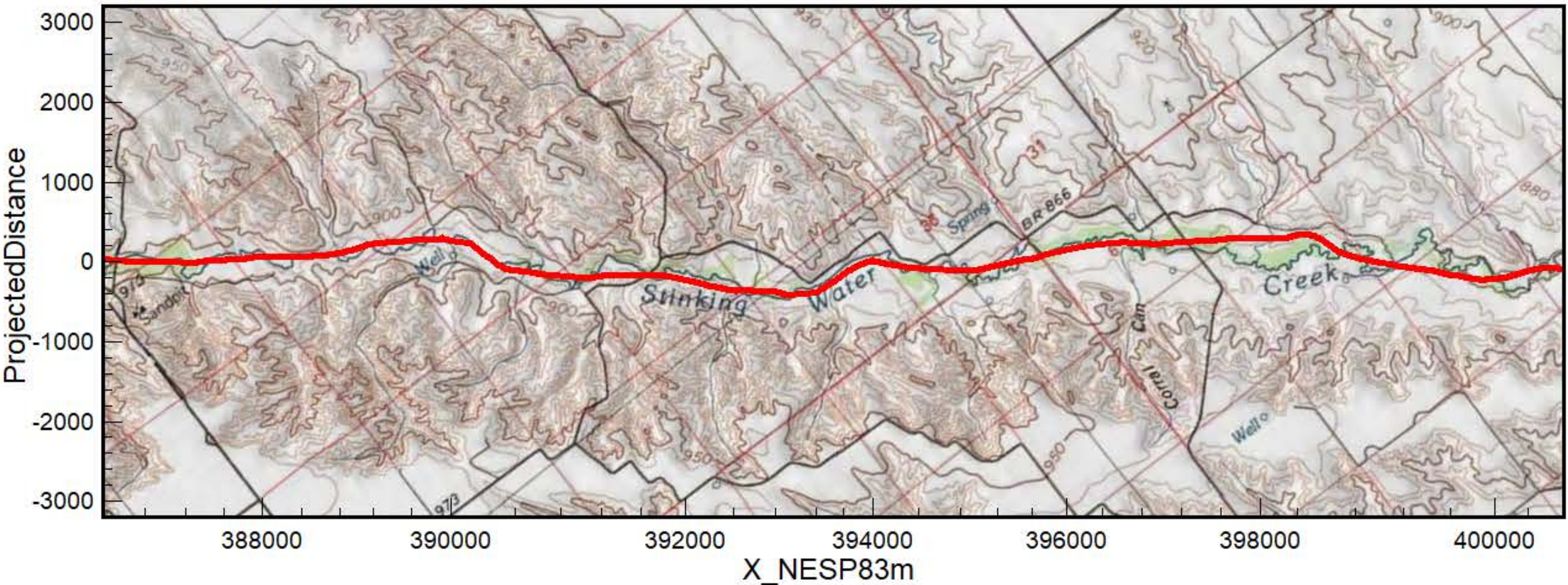
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Grave
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

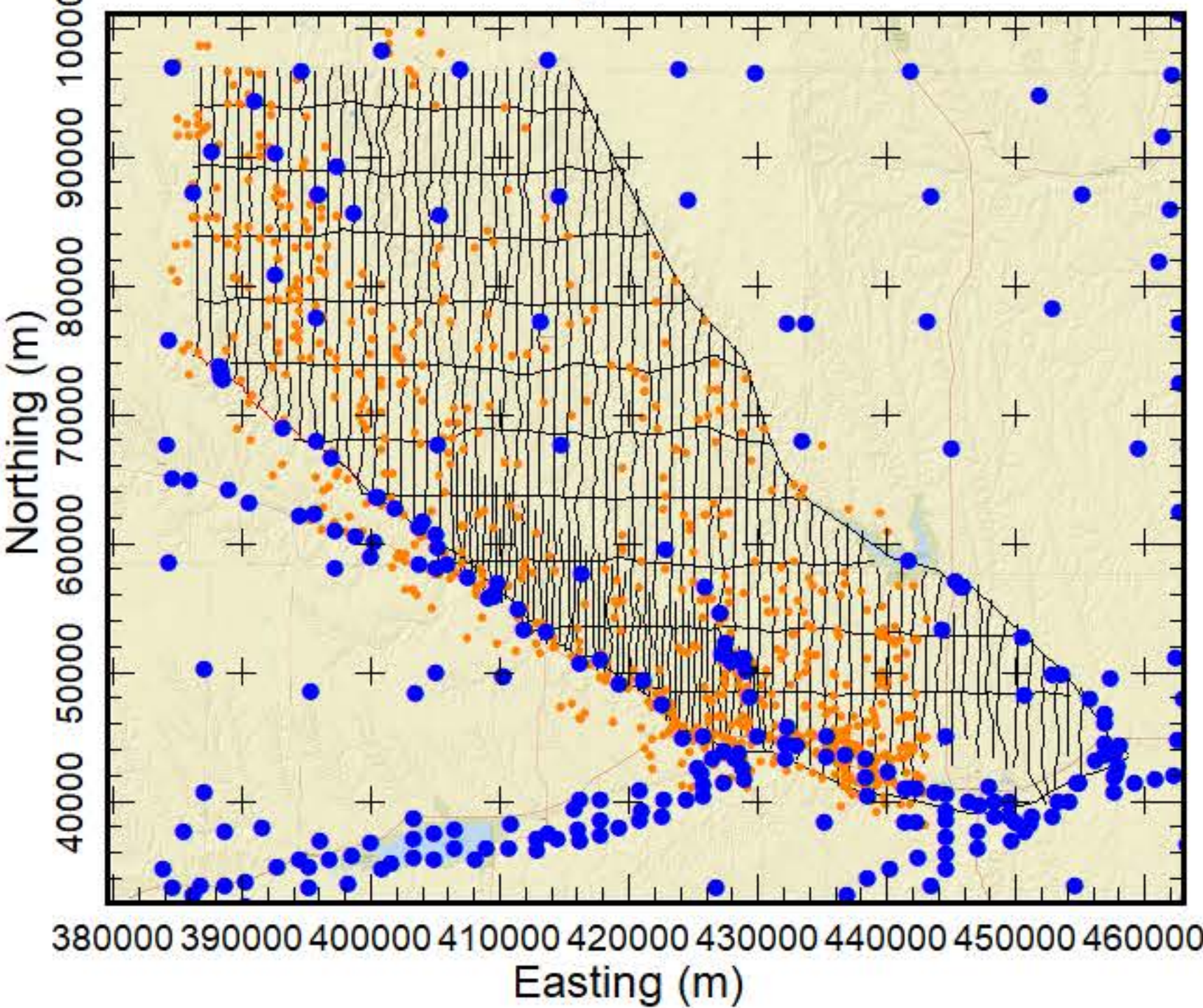




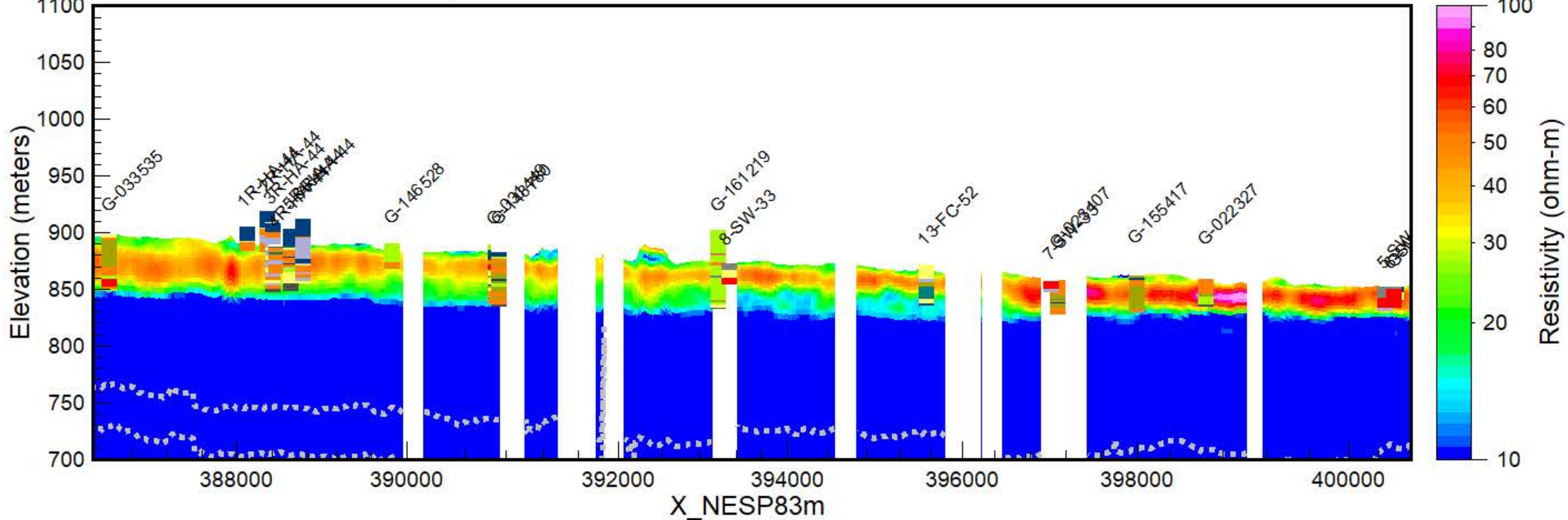
Flight Path Line L200403



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L200403



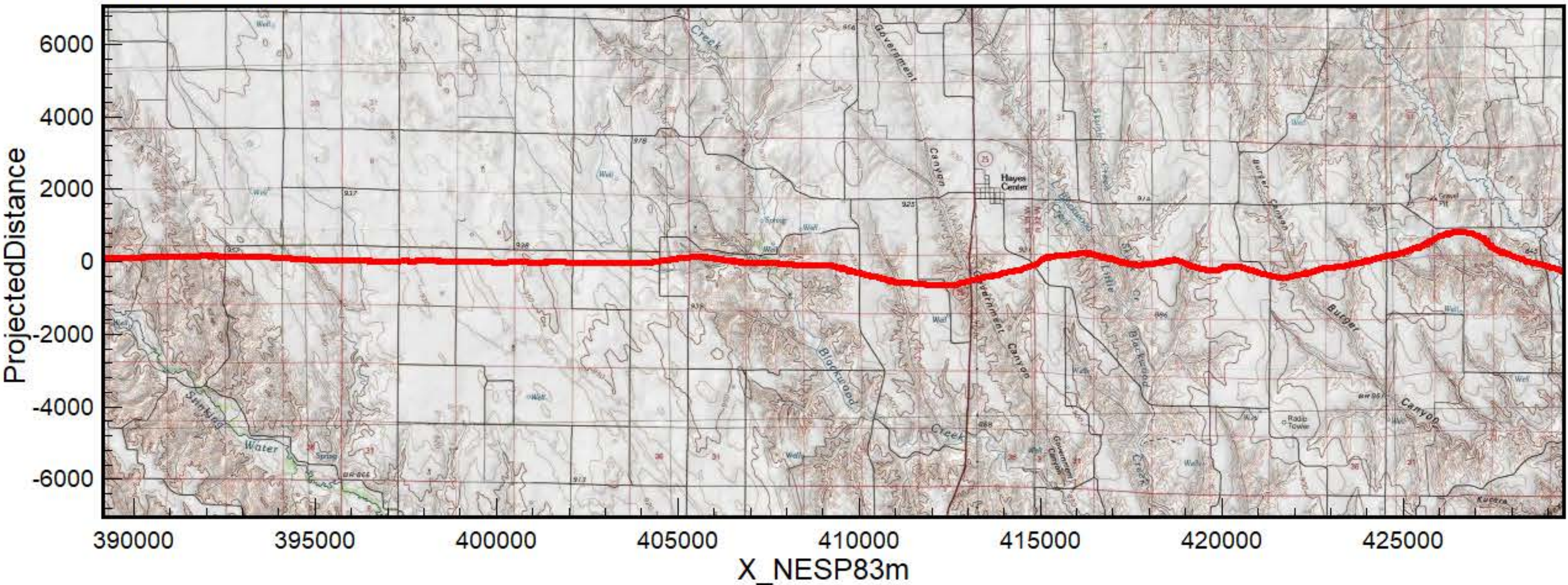
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Grave
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

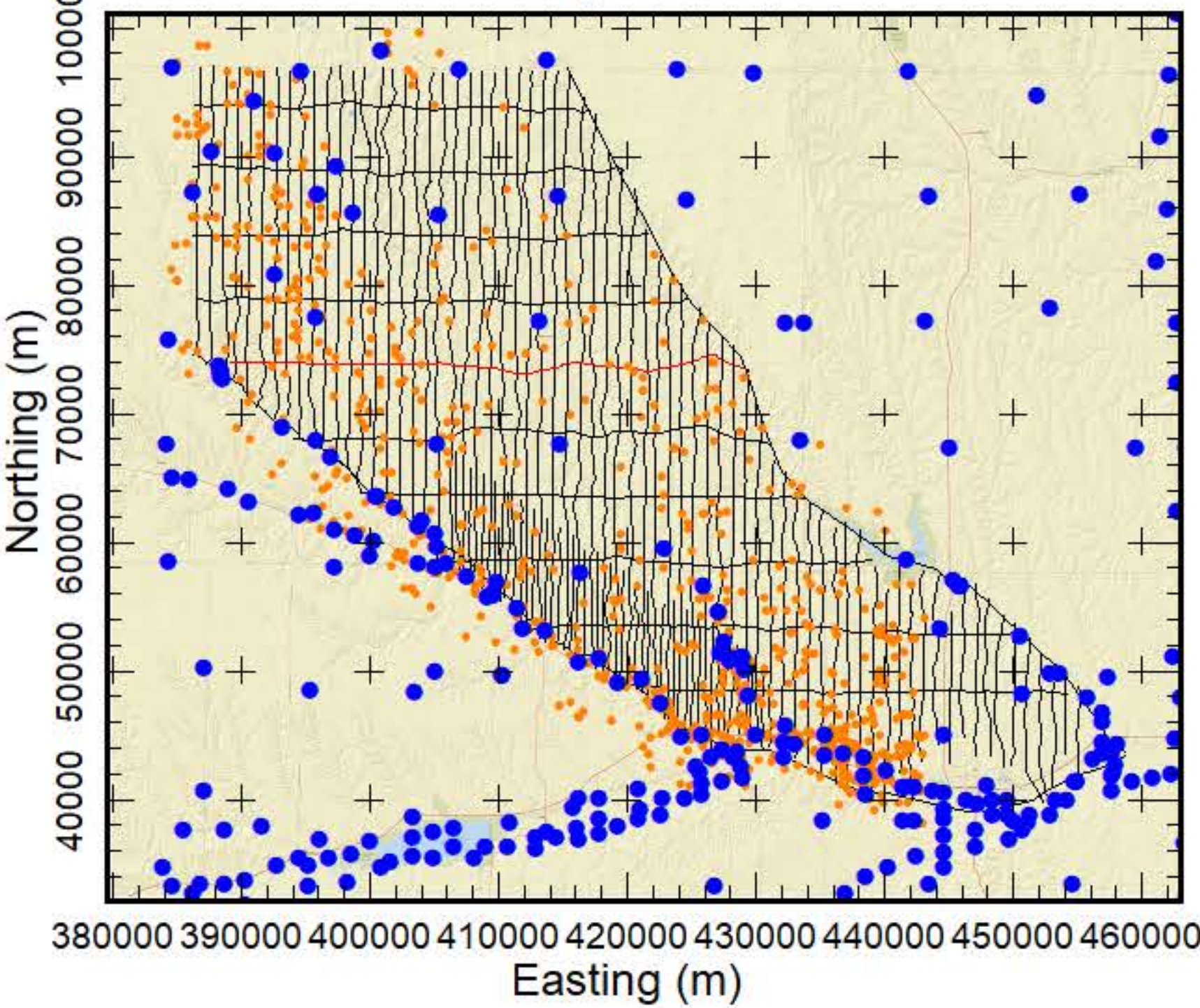




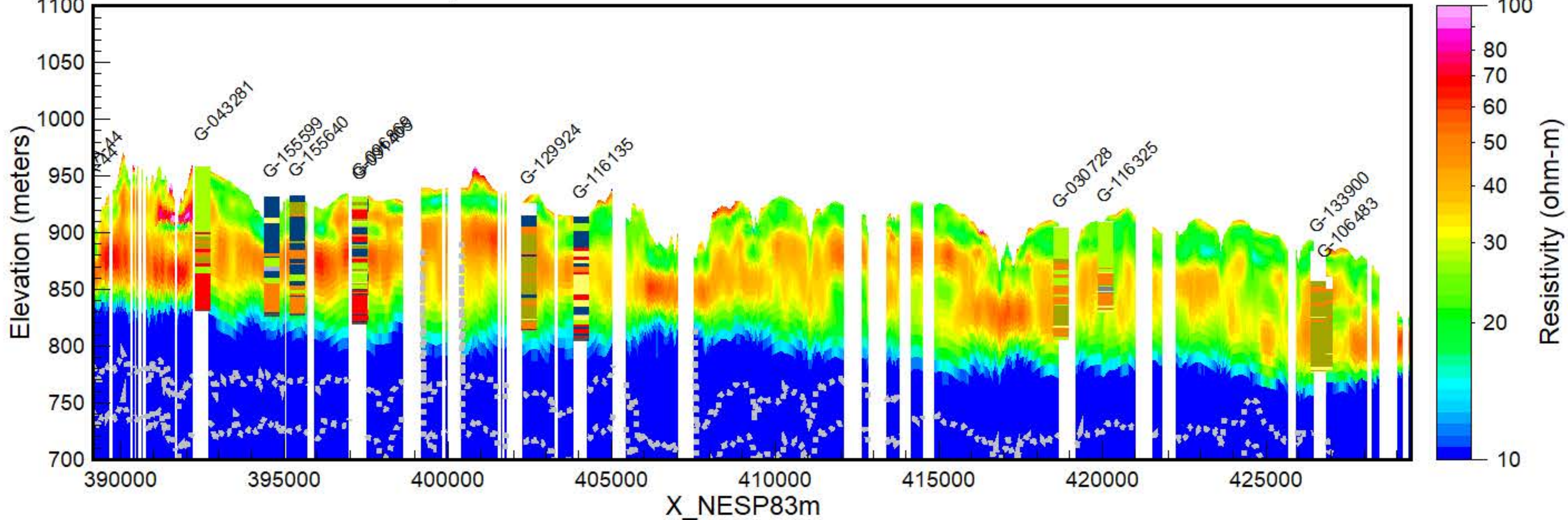
Flight Path Line L200404



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L200404

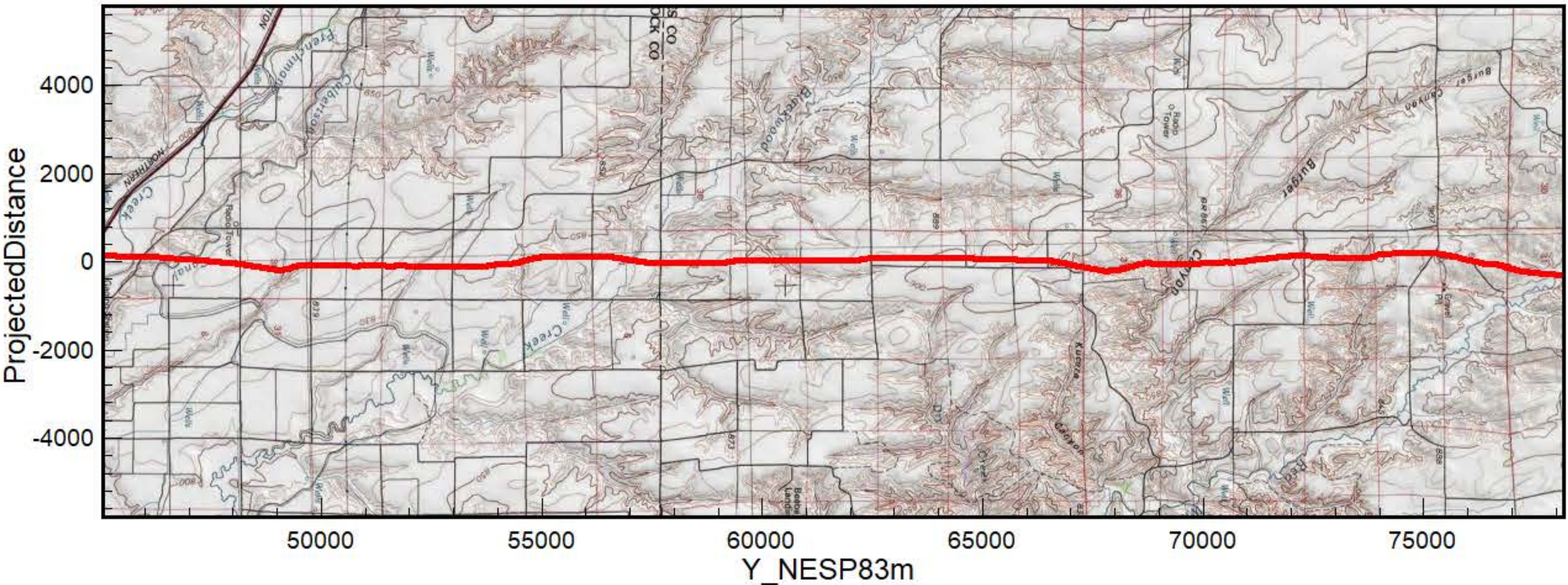


Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

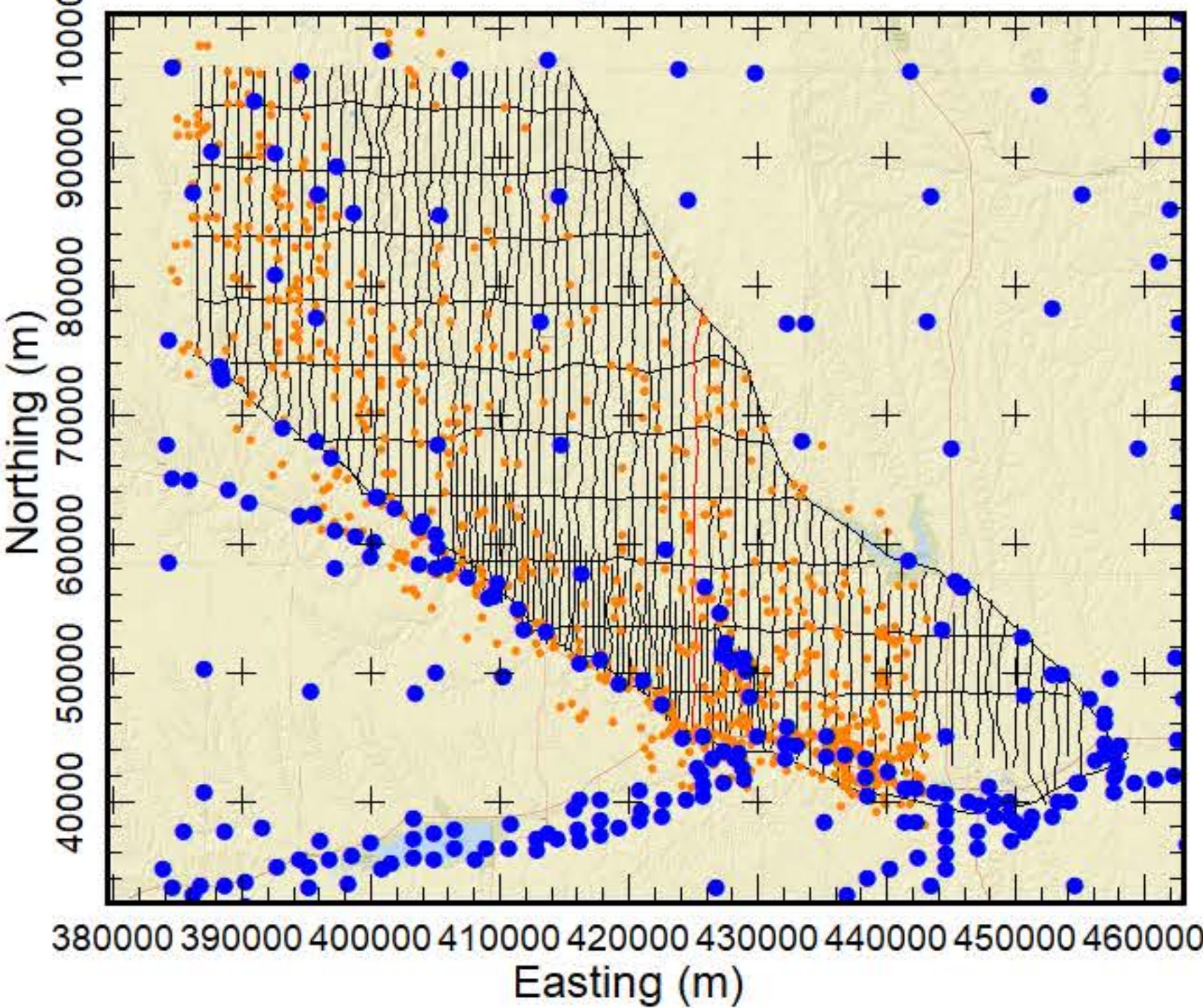




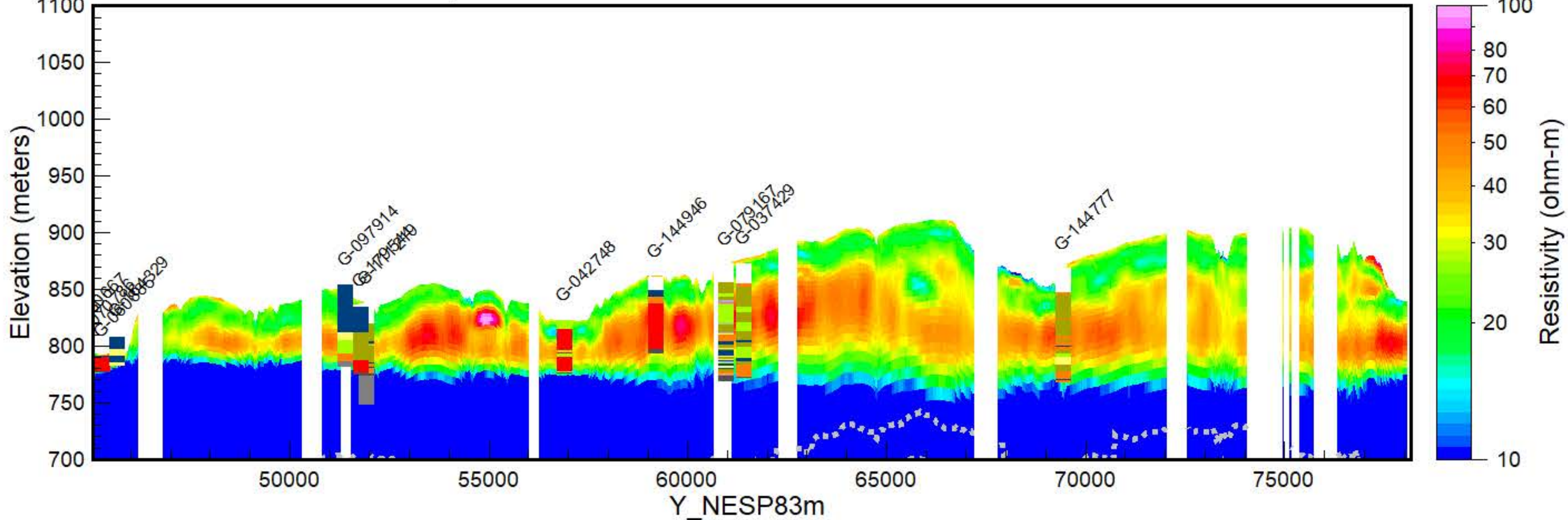
Flight Path Line L200405



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L200405



- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Grave
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

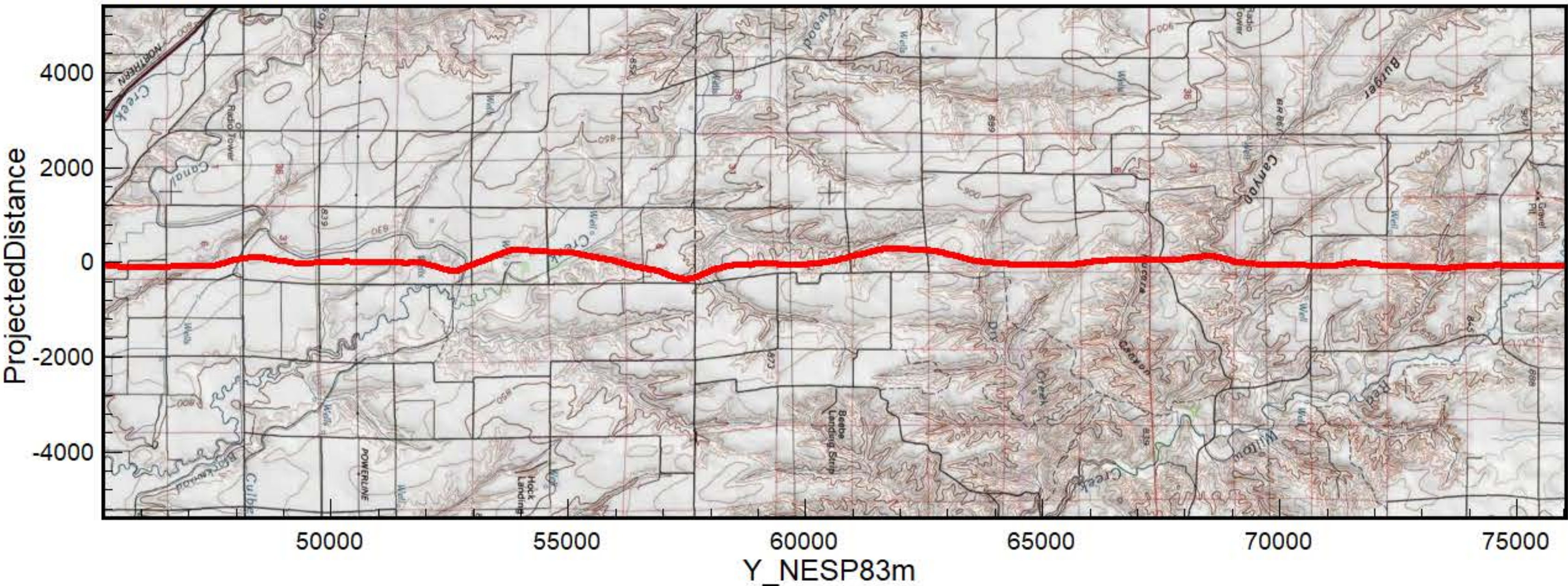


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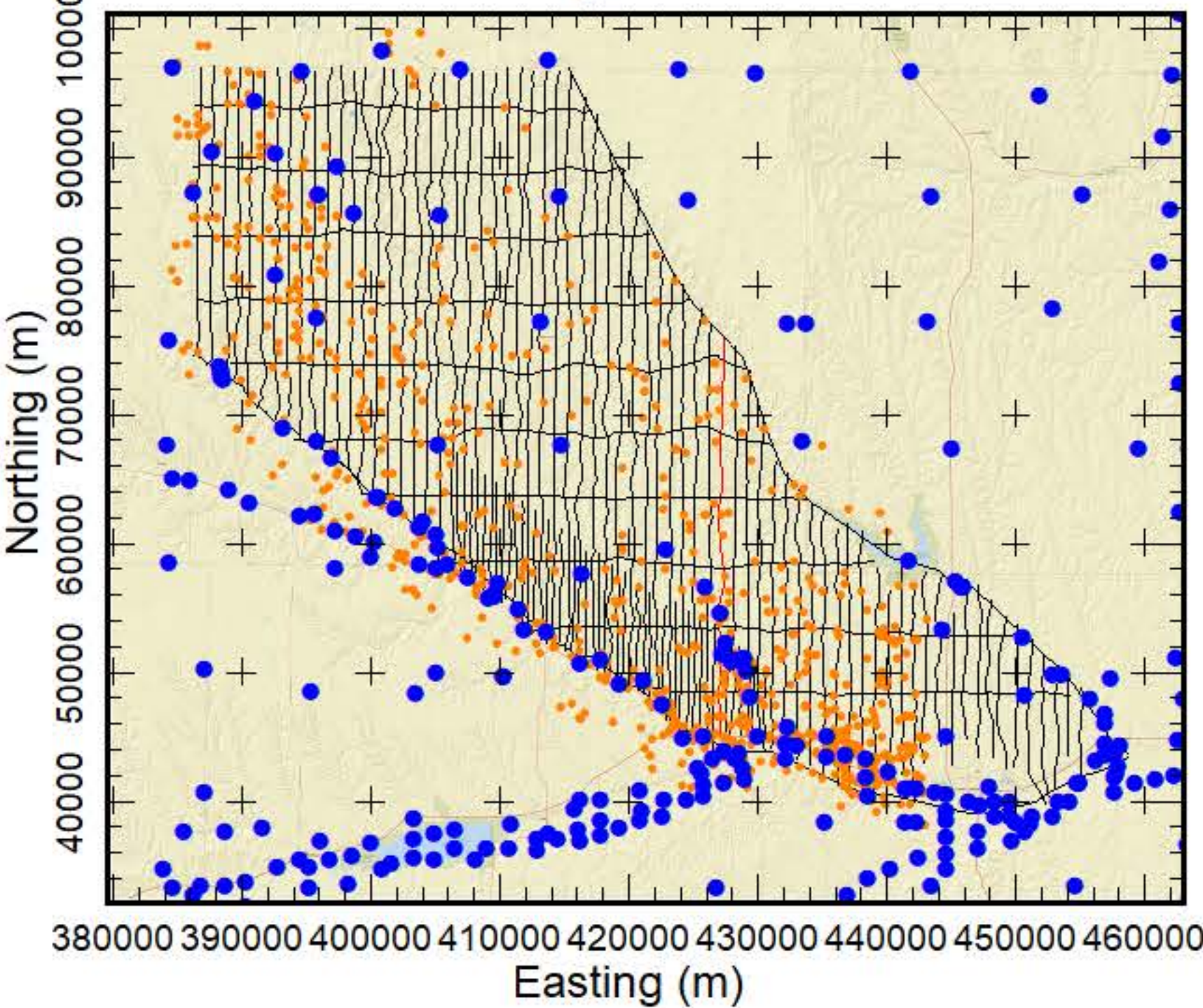
- | | |
|--|---------------------------|
| | Limestone |
| | Sandstone and Sand |
| | Sandstone and Shale |
| | Sandstone |
| | Siltstone |
| | Mudstone |
| | Gravel and Shale |
| | Sand and Shale |
| | Shale and Sandstone |
| | Shale and Clay |
| | Clay and Shale |
| | Shale |
| | Clayey Shale/Claystone |
| | Sandstone and Gravel |
| | Gravel and Sandstone |
| | Coarse-Gravel |
| | Medium-Coarse-Grave |
| | Fine-Medium-Gravel |
| | Medium-Gravel |
| | Gravel/Boulders |
| | Fine-Medium-Coarse-Gravel |
| | Fine-Coarse-Gravel |
| | Fine-Gravel |
| | Gravel and Sand |
| | Gravel and Silt |
| | Sand and Gravel |
| | Coarse-Sand |
| | Medium-Coarse-Sand |
| | Medium-Sand |
| | Sand |
| | Fine-Medium-Coarse-Sand |
| | Fine-Coarse-Sand |
| | Fine-Medium-Sand |
| | Fine-Sand |
| | Sand and Silt |
| | Silt and Gravel |
| | Silty Sand |
| | Silt/Loess |
| | Till |
| | Silt and Clay |
| | Gravel and Clay |
| | Clay and Gravel |
| | Sandy Clay |
| | Clay and Sand |
| | Clay |
| | Clay and Silt |
| | Roadfill and/or Topsoil |



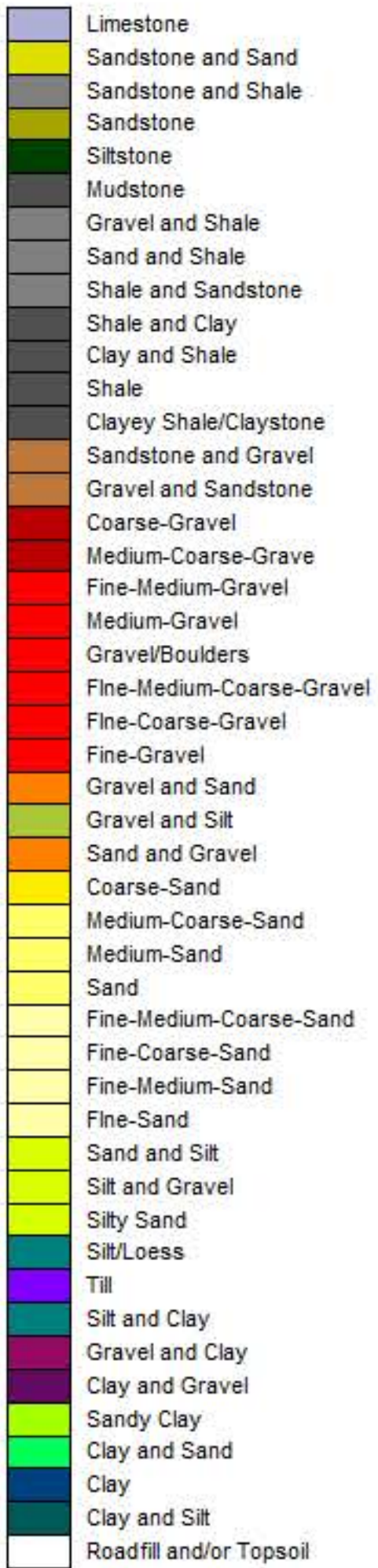
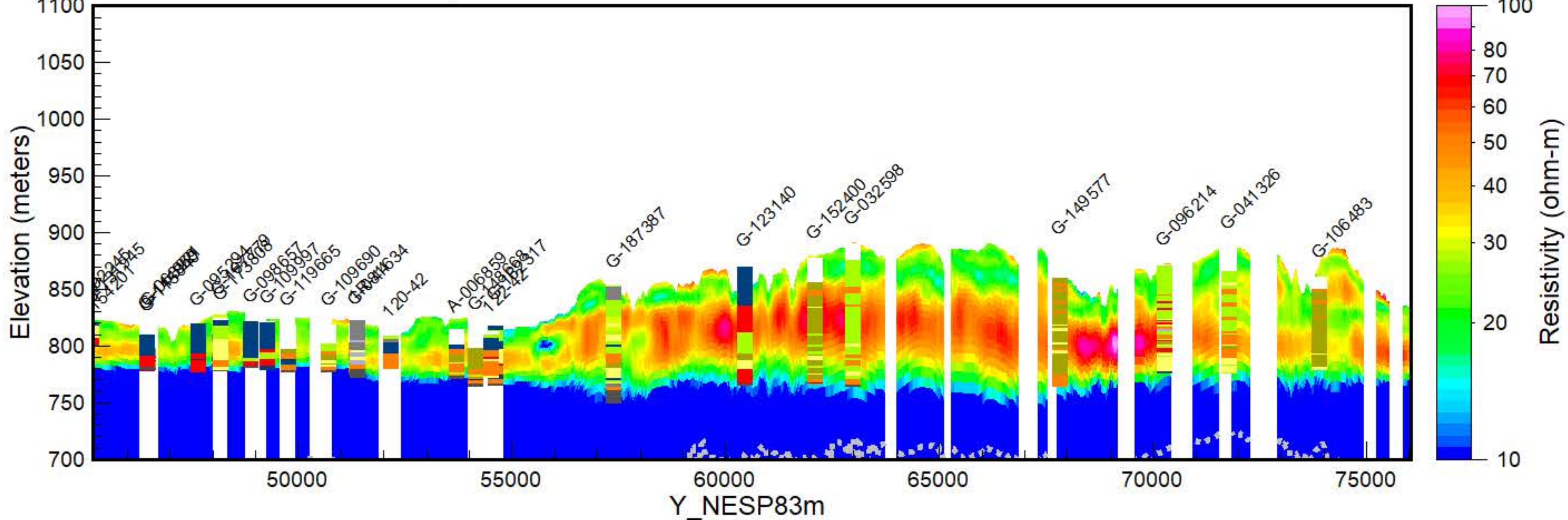
Flight Path Line L200407



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L200407

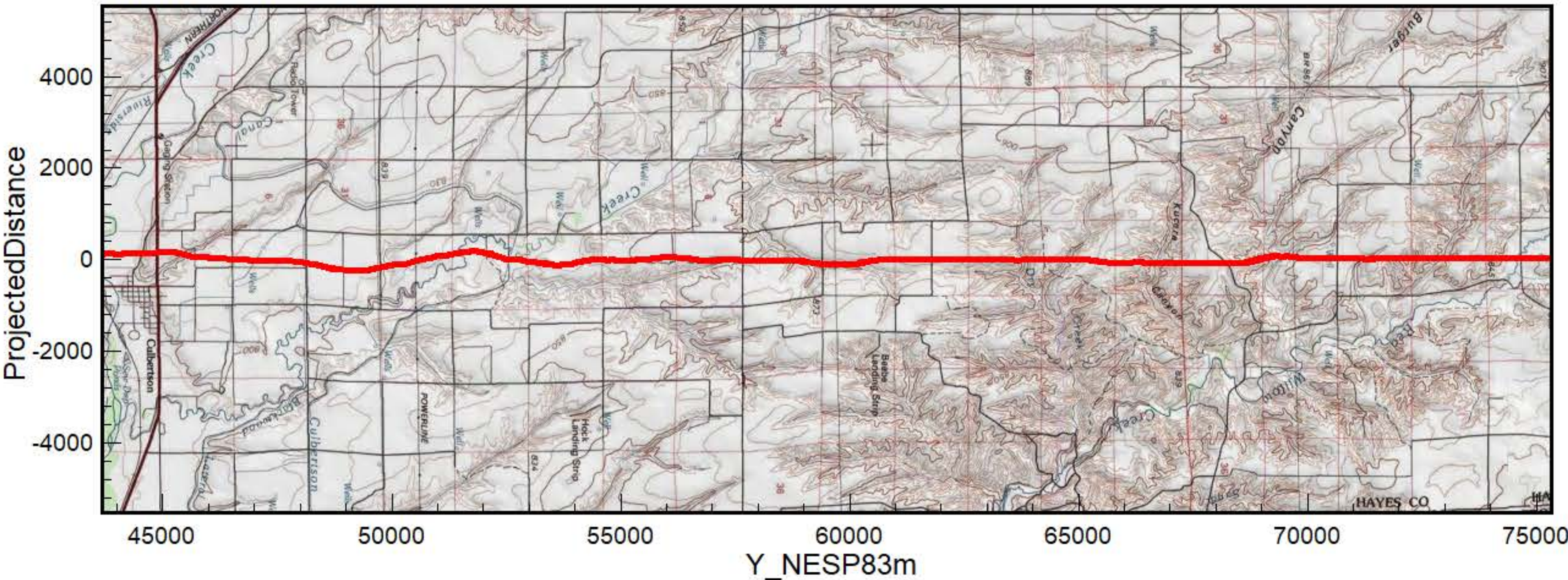


Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

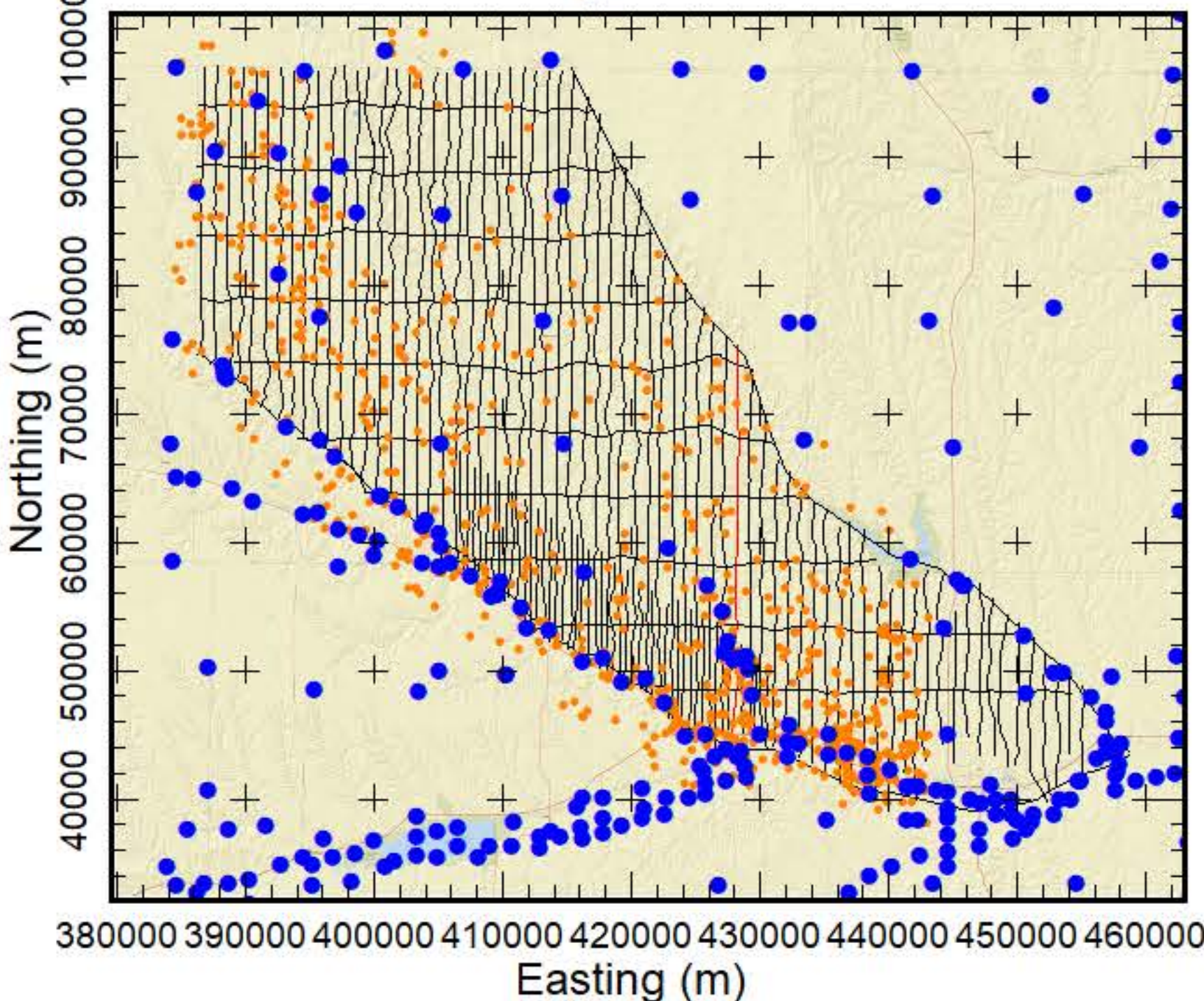




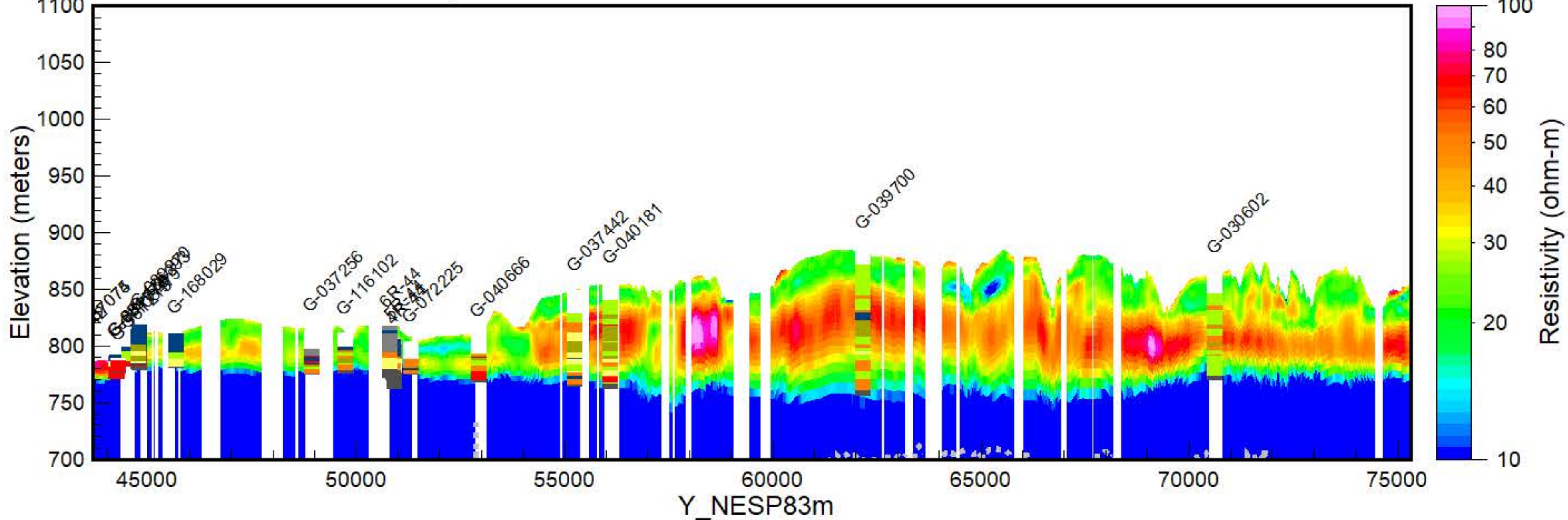
Flight Path Line L200408



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L200408



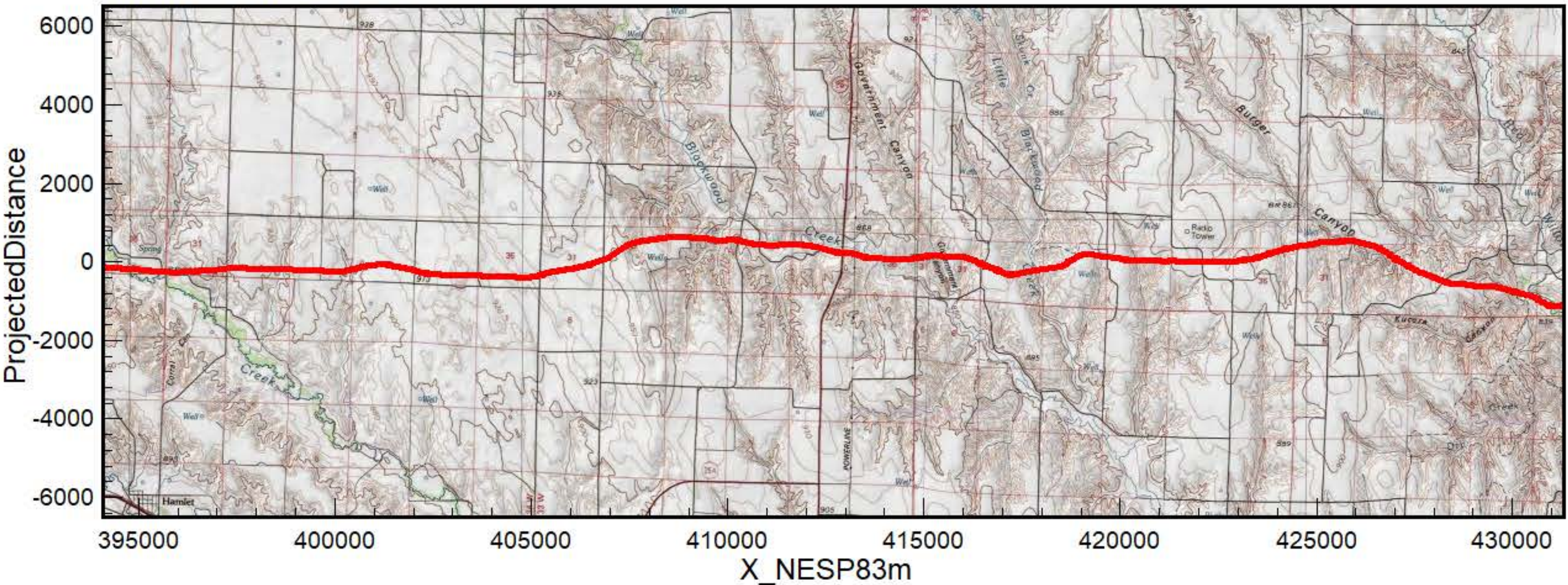
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

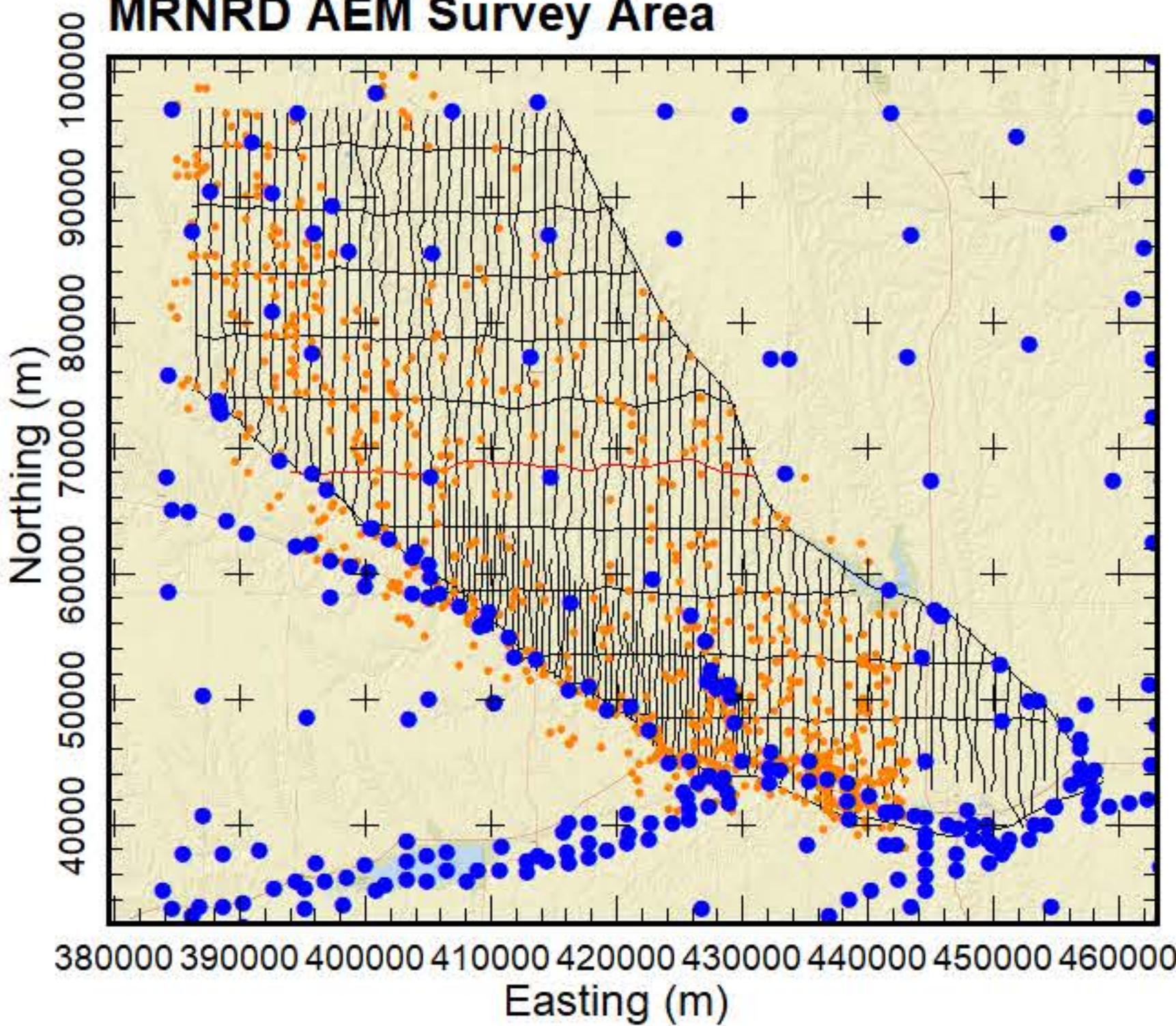




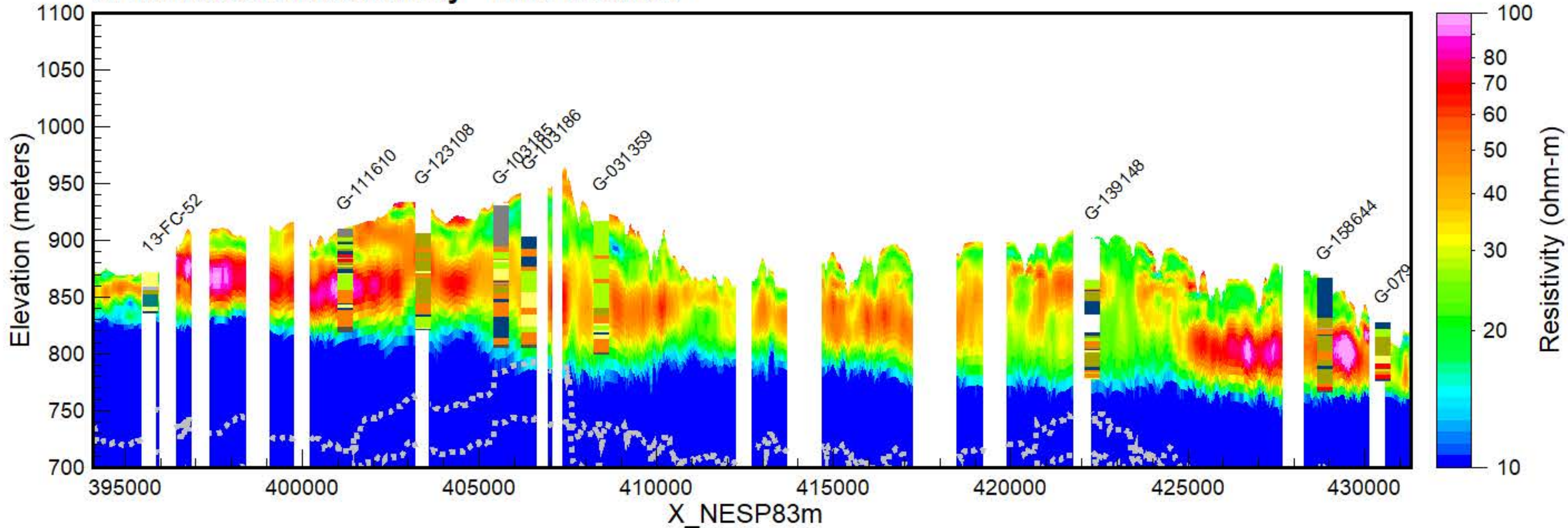
Flight Path Line L200409



MRNRD AEM Survey Area



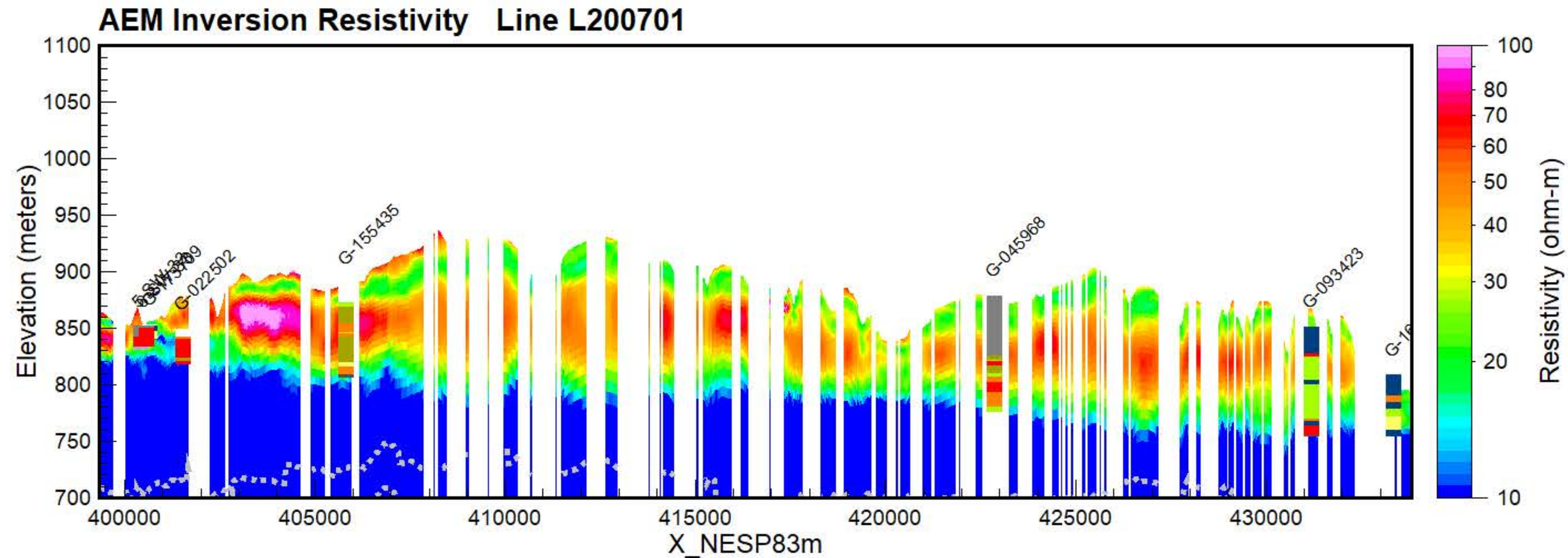
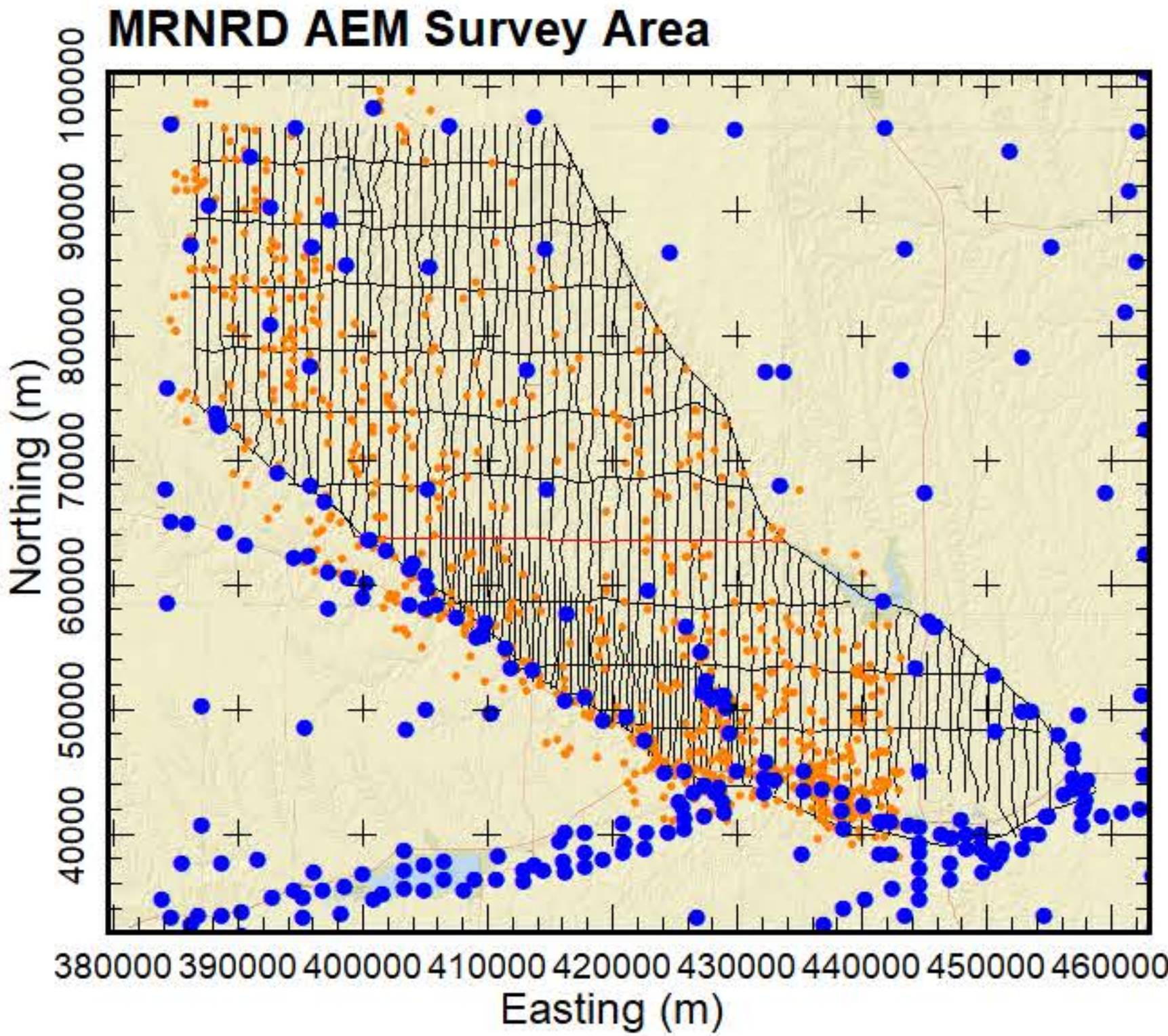
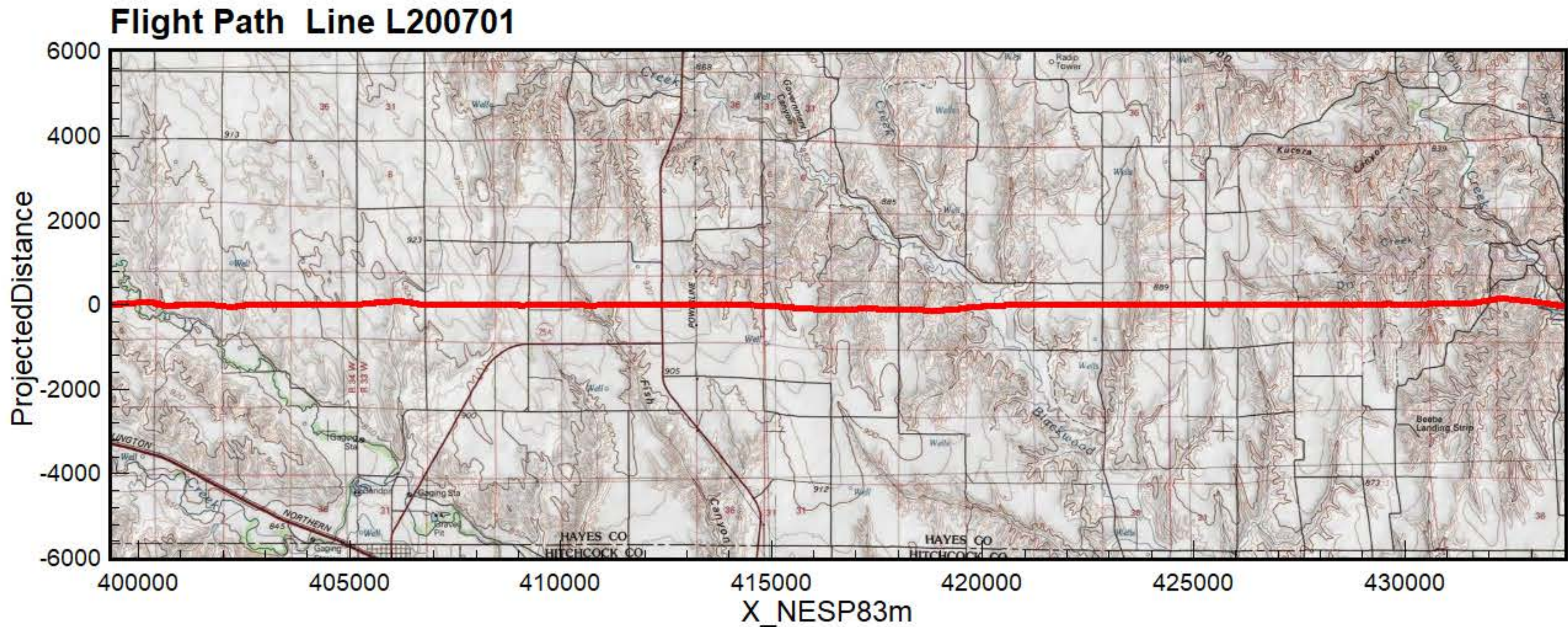
AEM Inversion Resistivity Line L200409



- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).





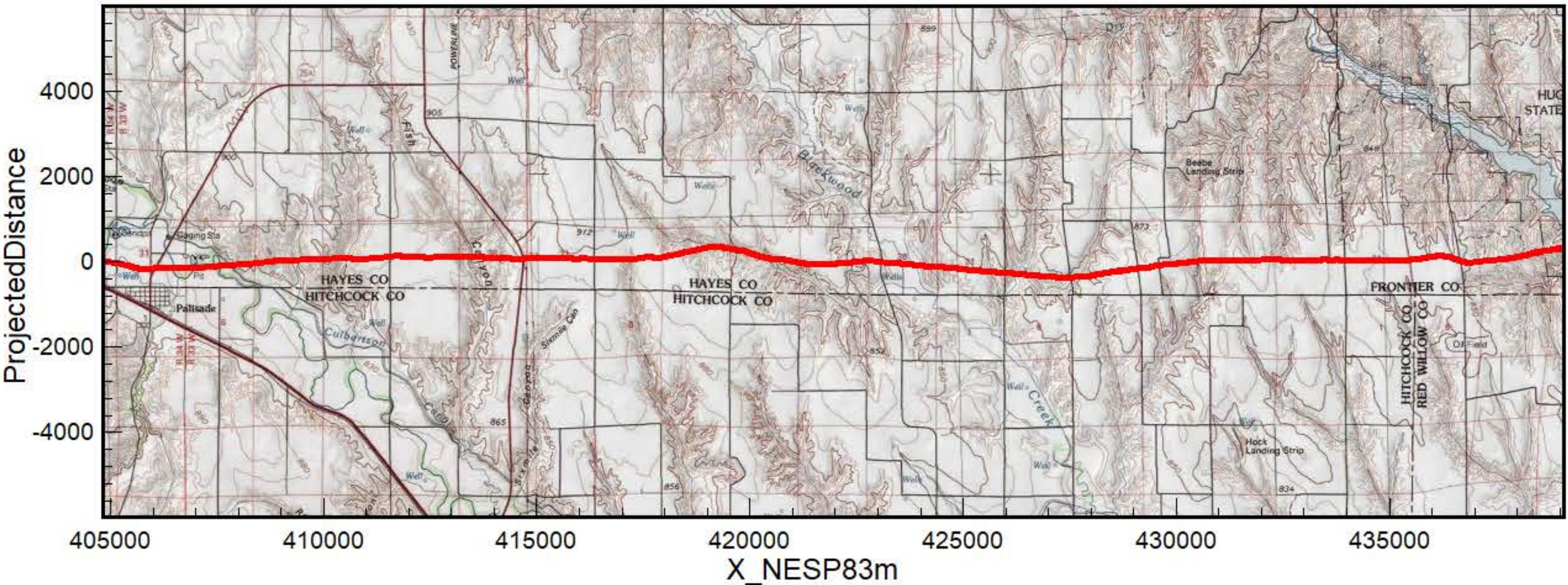
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

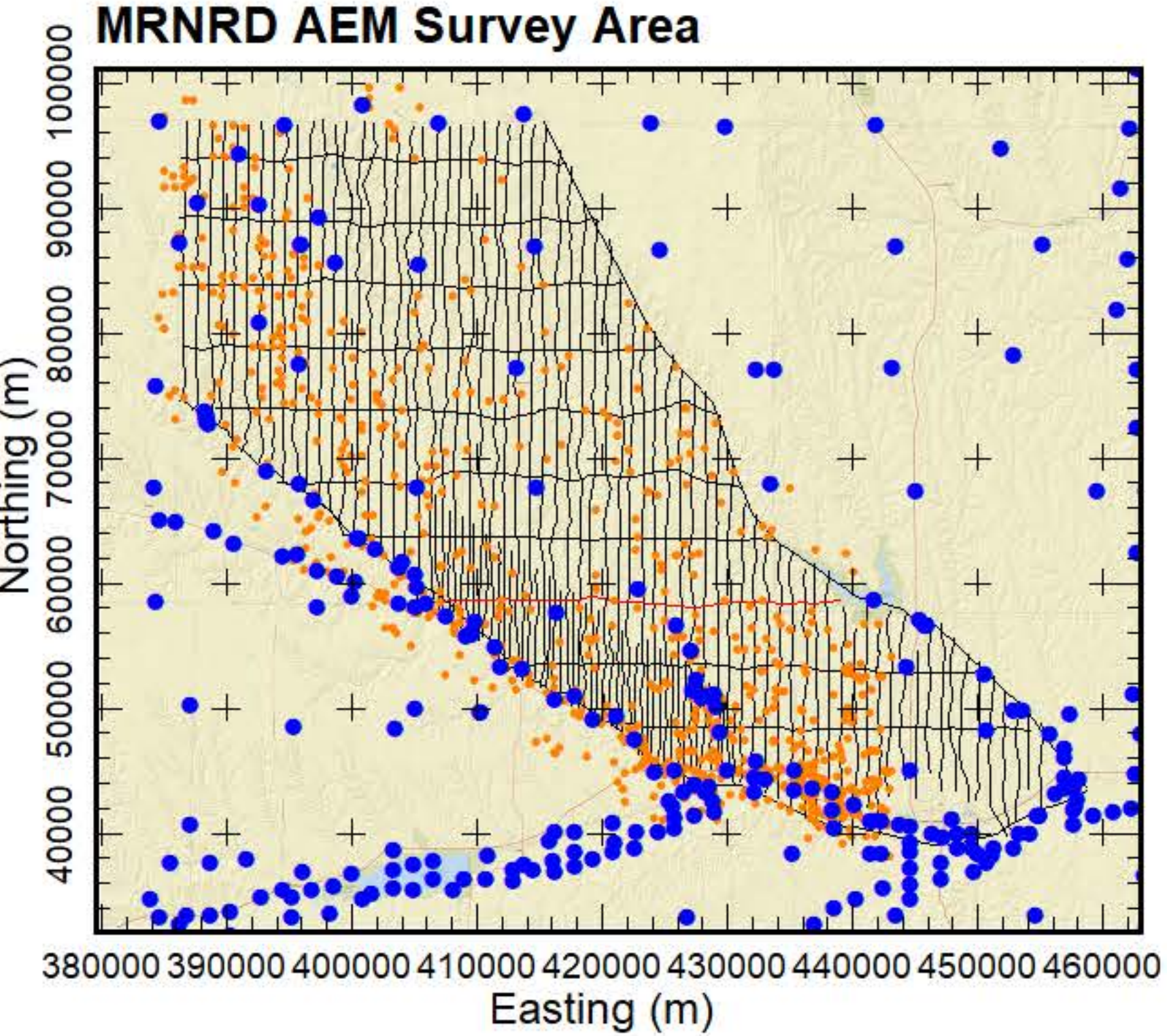
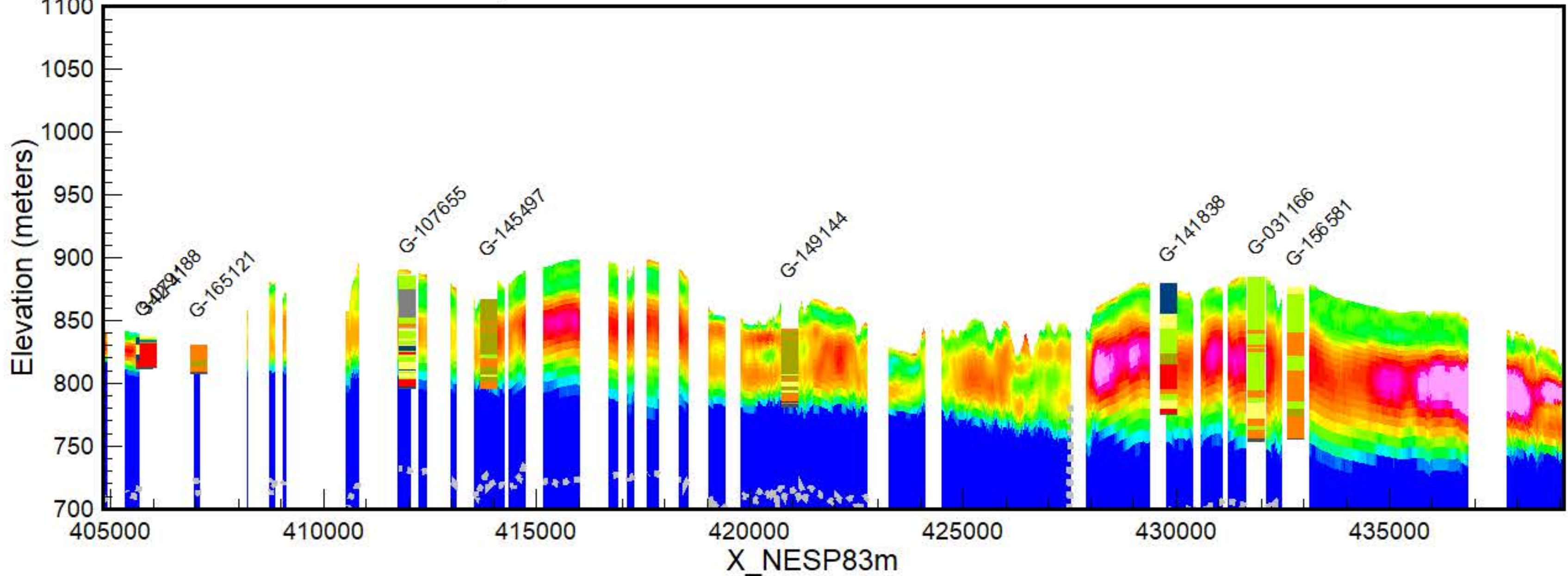




Flight Path Line L200801



AEM Inversion Resistivity Line L200801



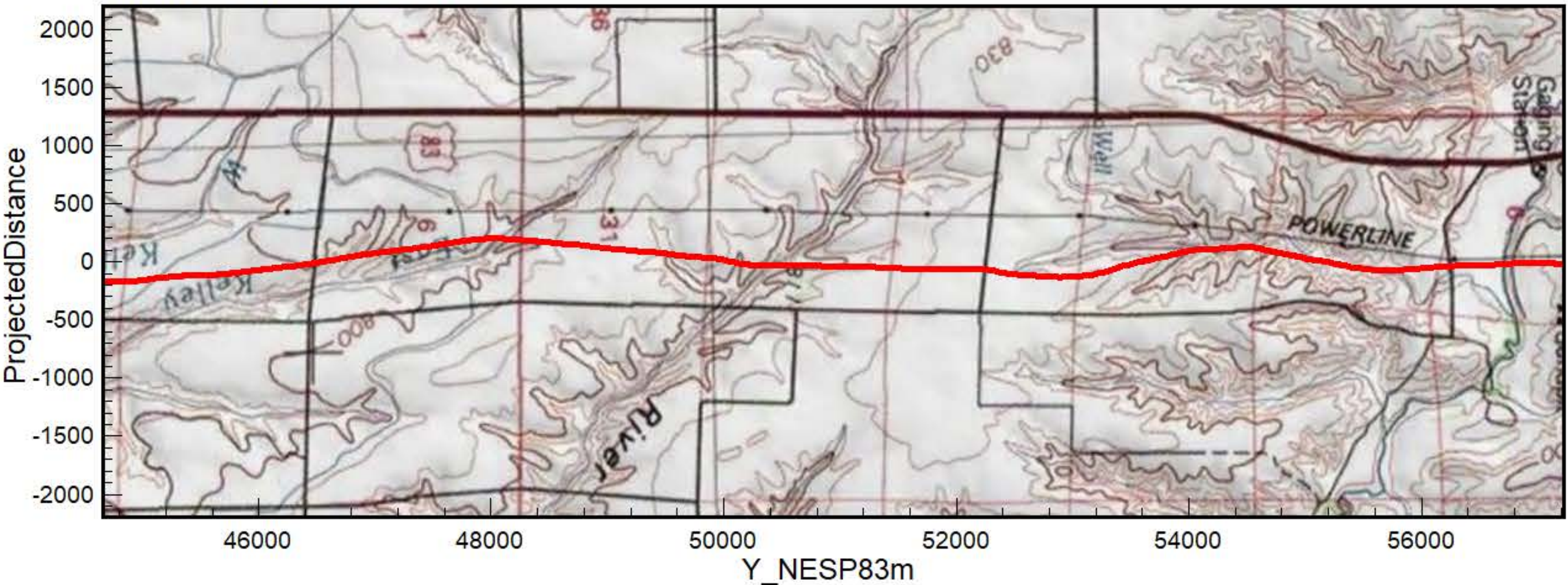
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

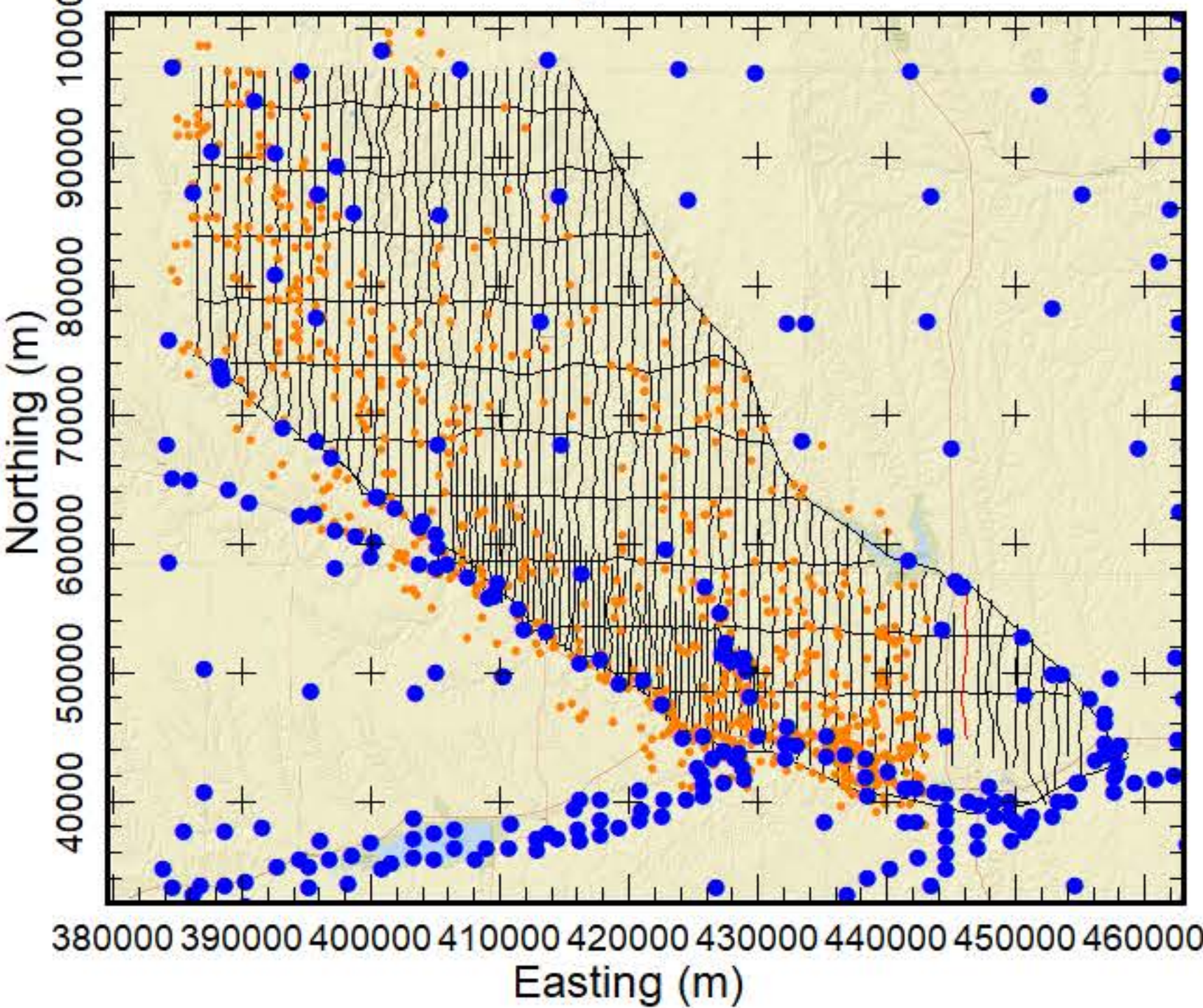




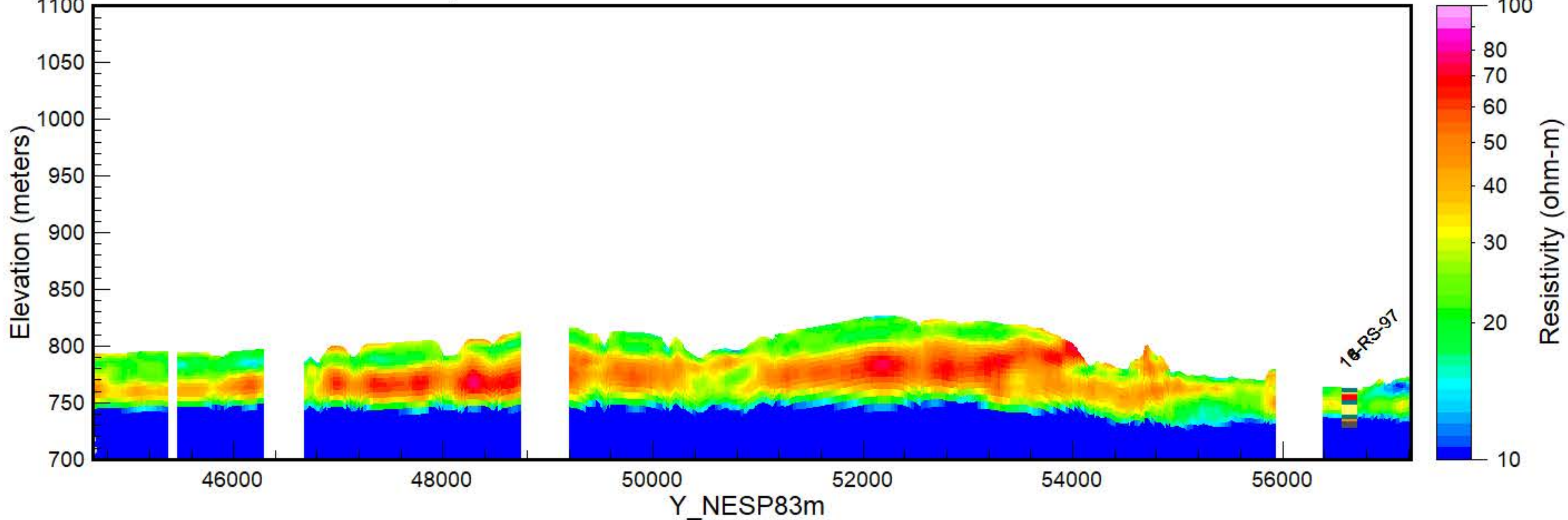
Flight Path Line L201203



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L201203



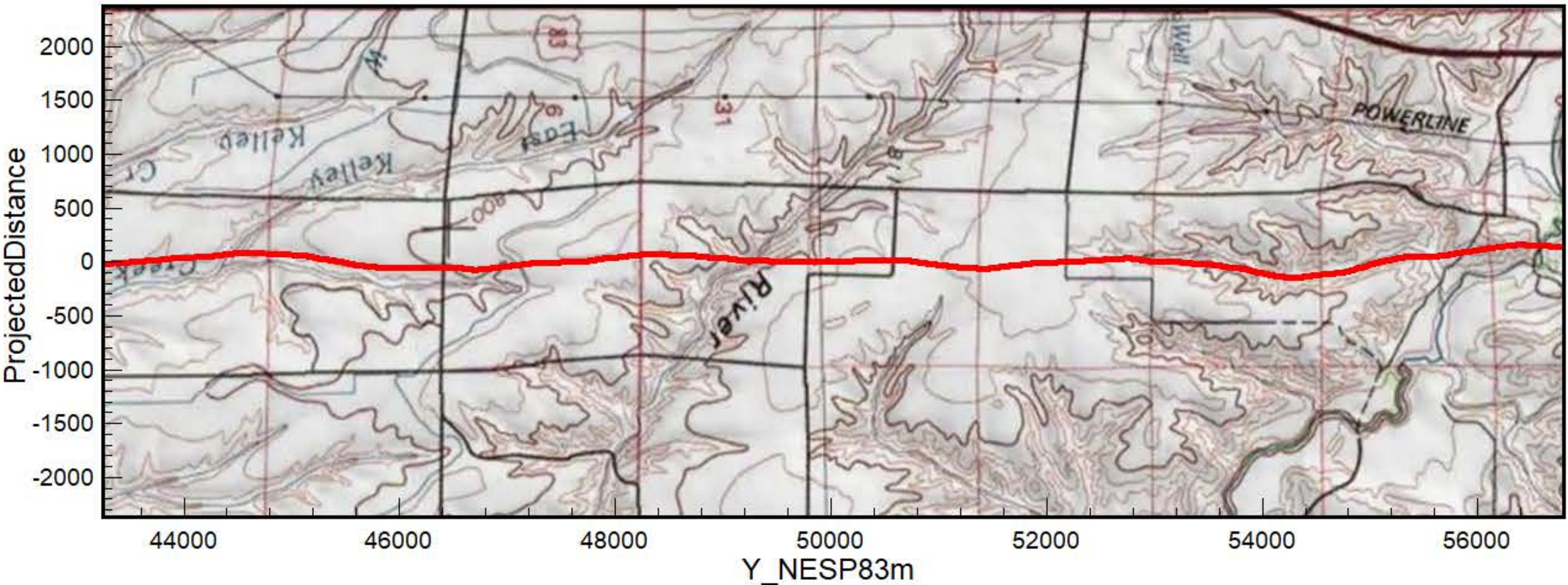
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

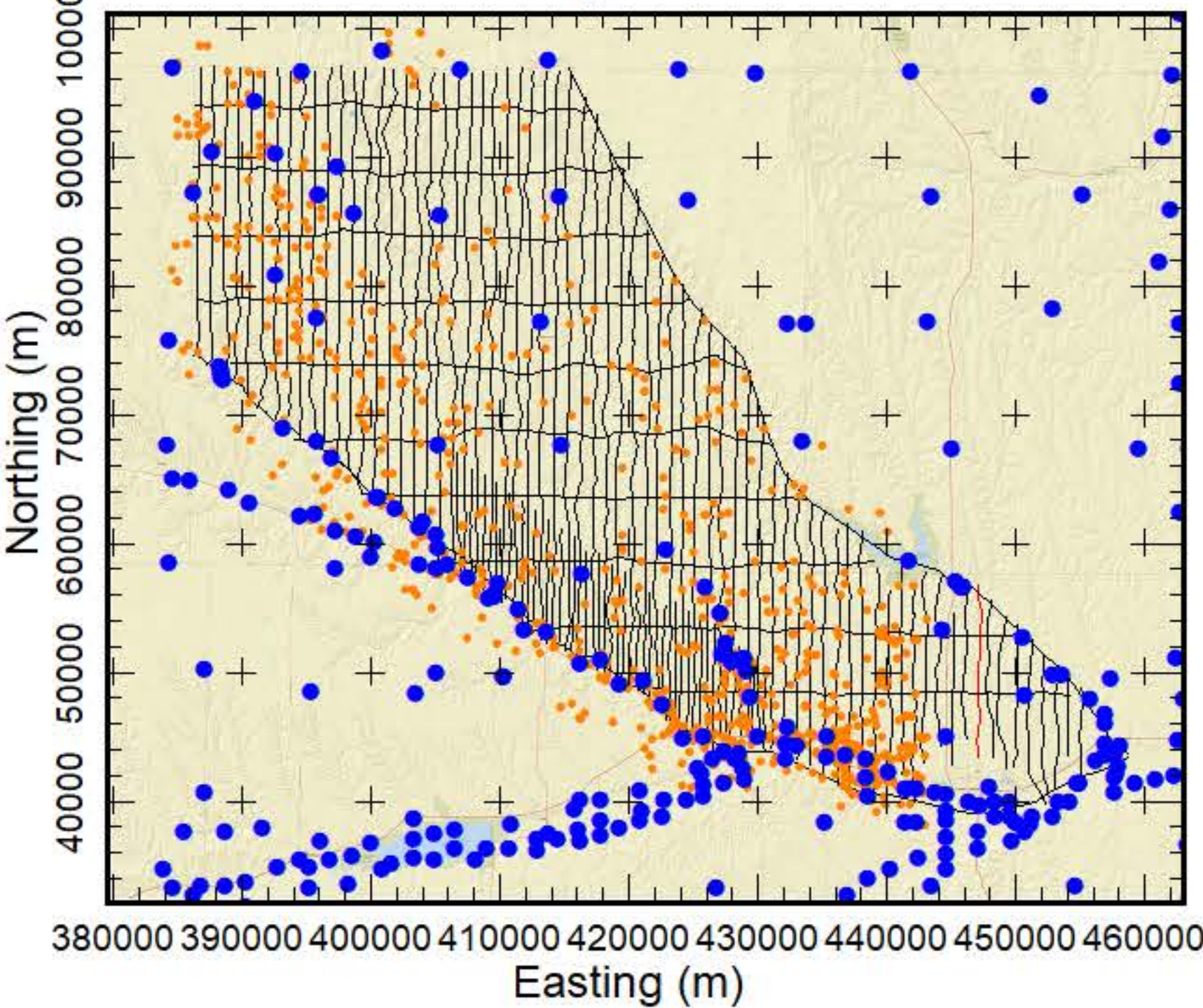




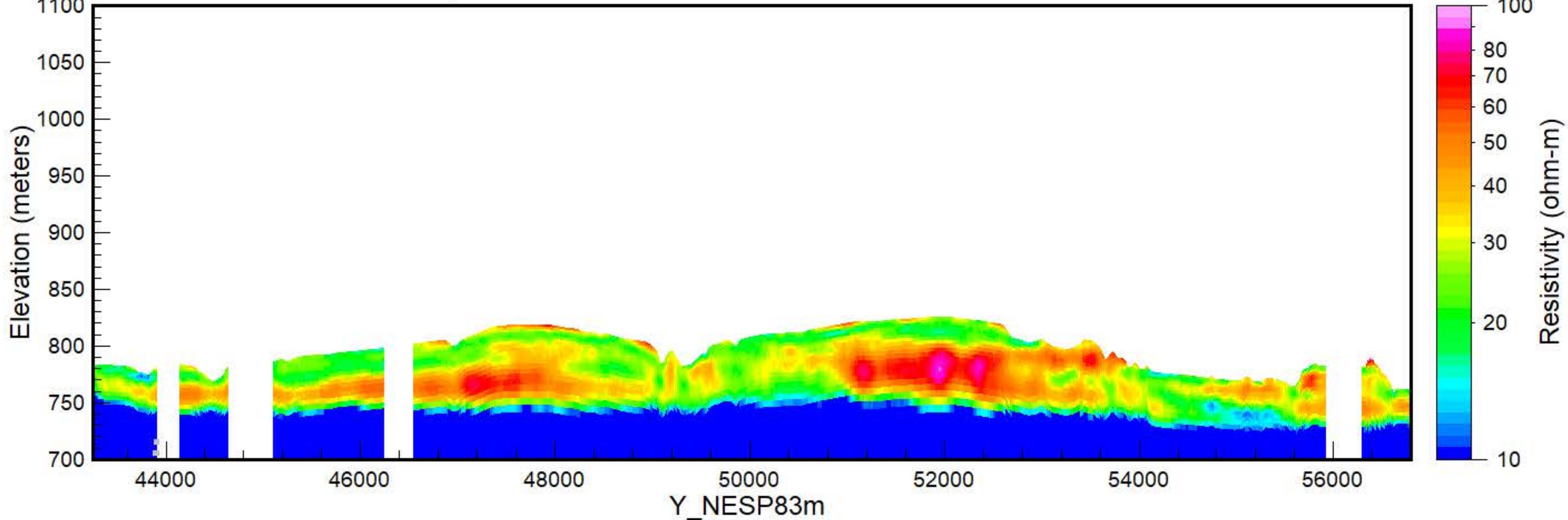
Flight Path Line L201204



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L201204



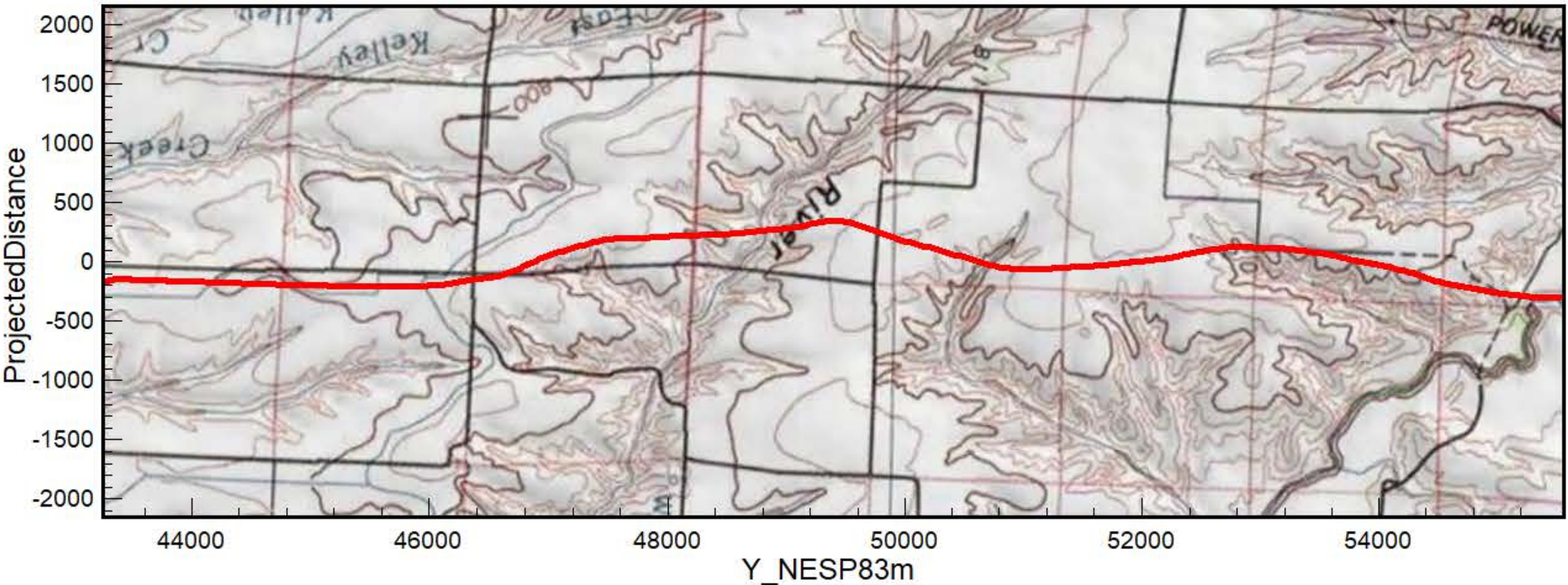
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

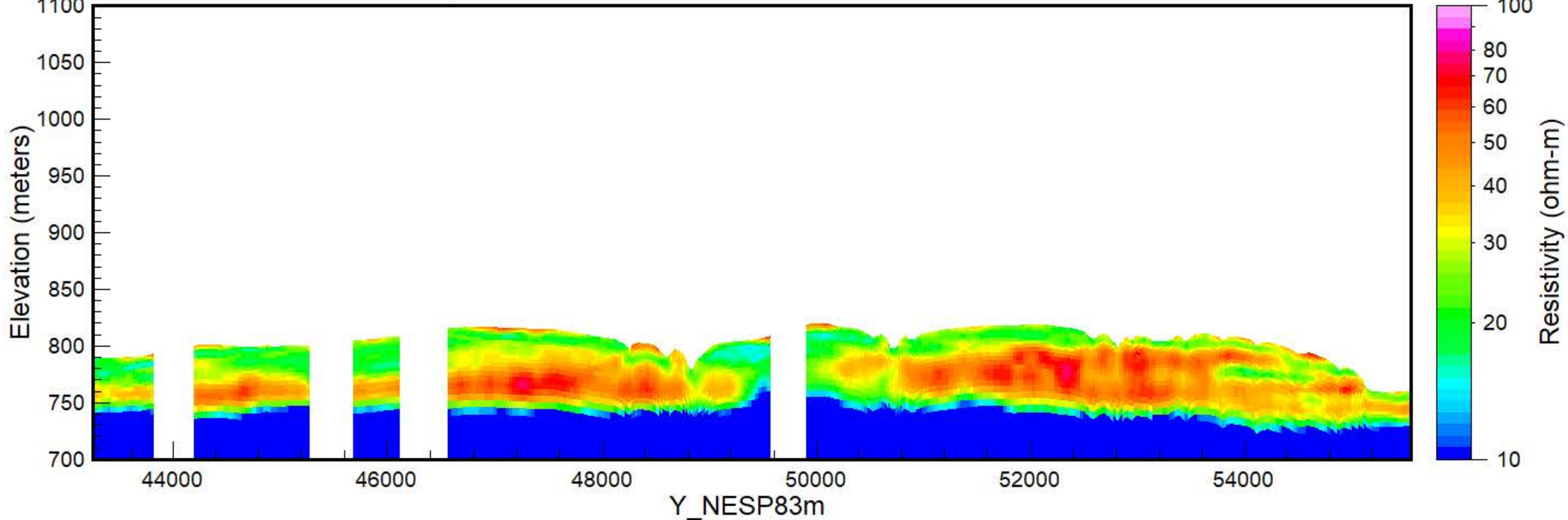




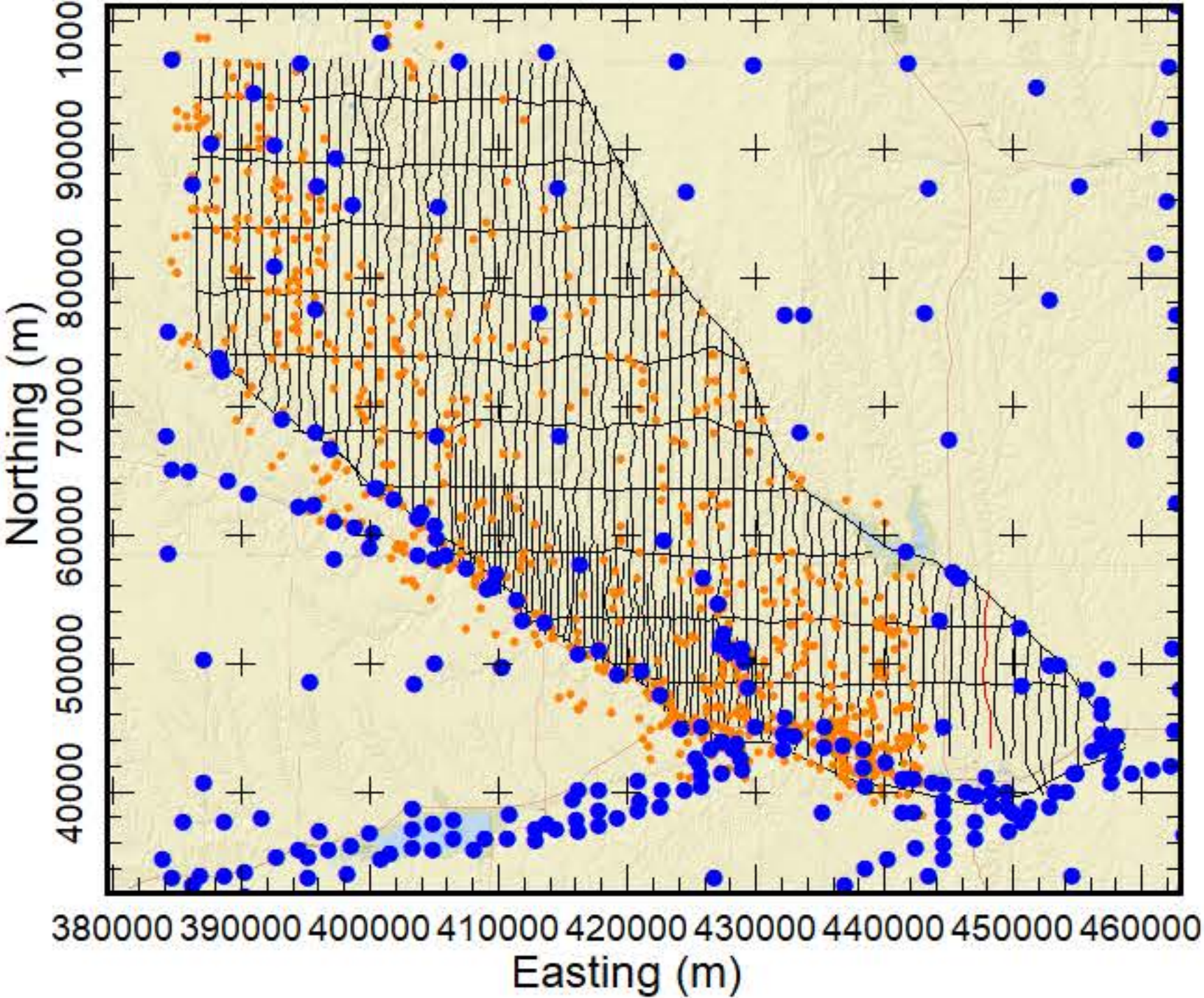
Flight Path Line L201205



AEM Inversion Resistivity Line L201205



MRNRD AEM Survey Area



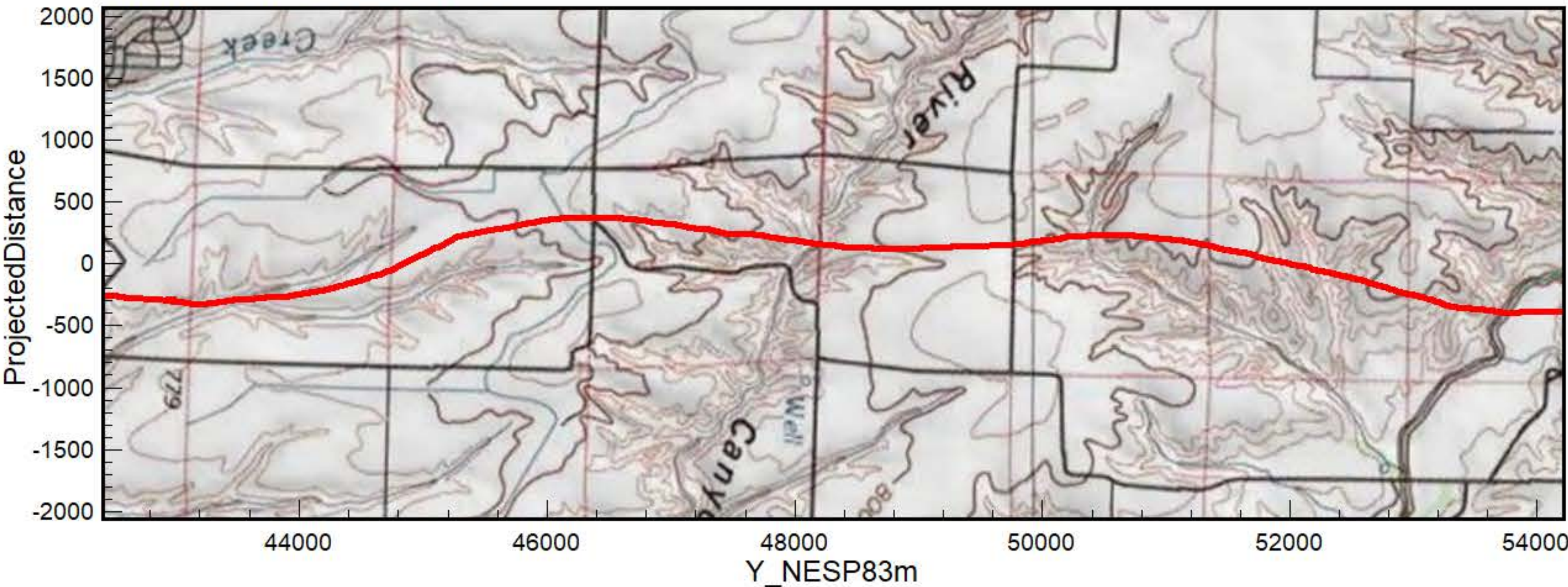
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

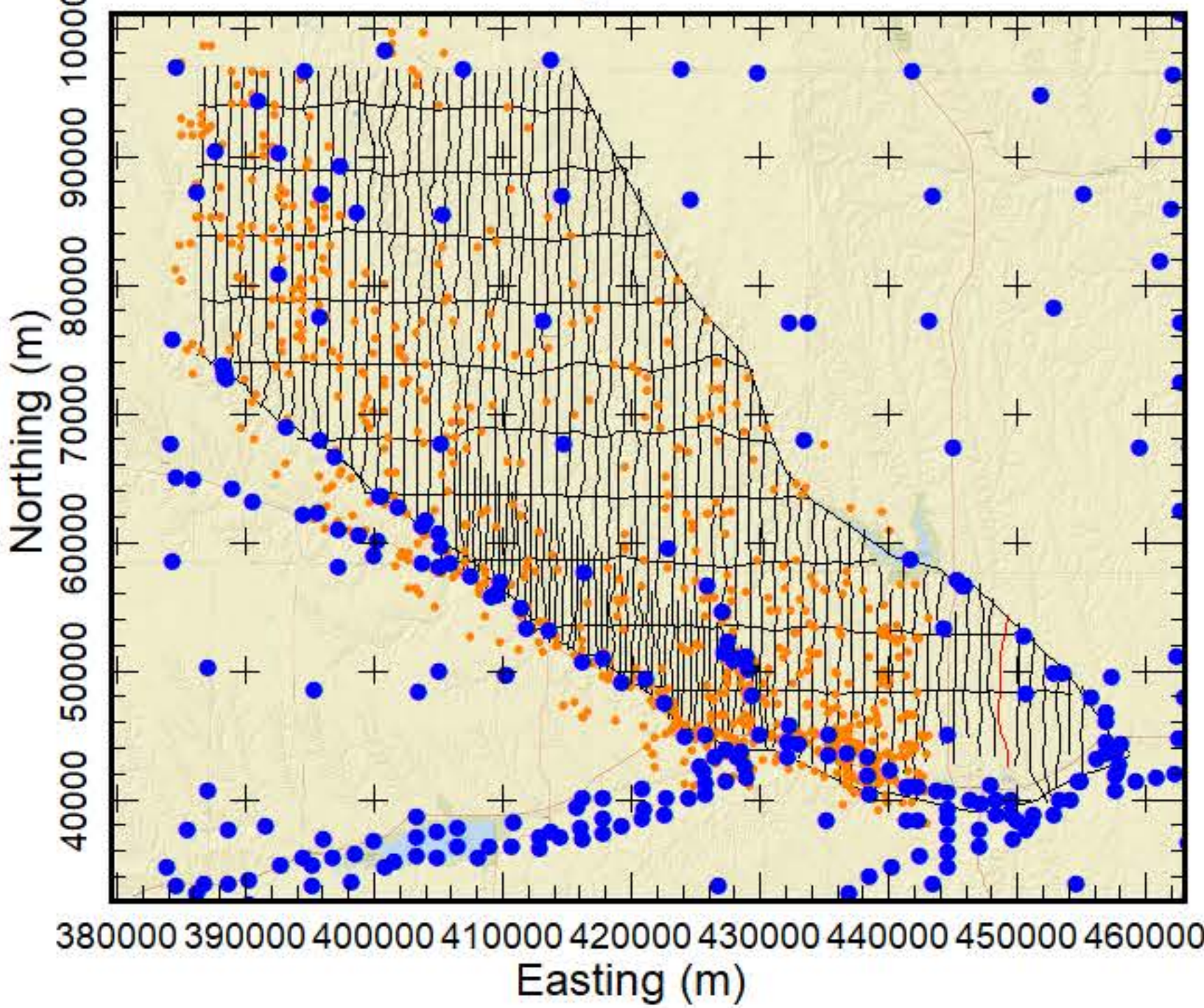




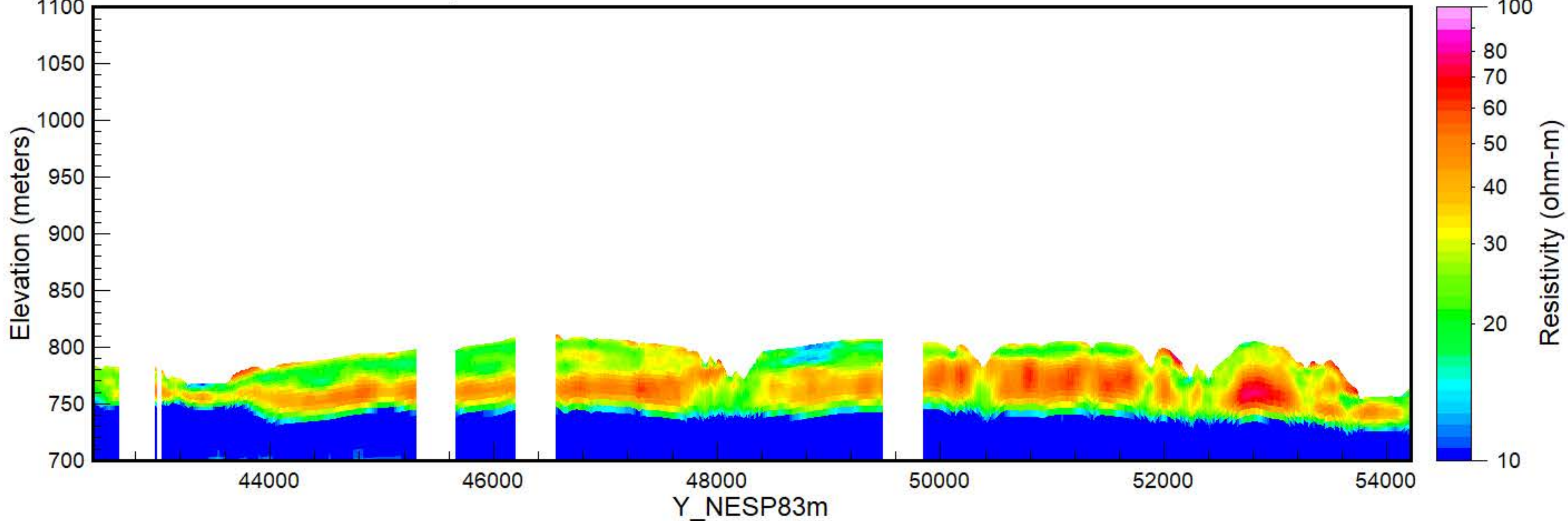
Flight Path Line L201206



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L201206



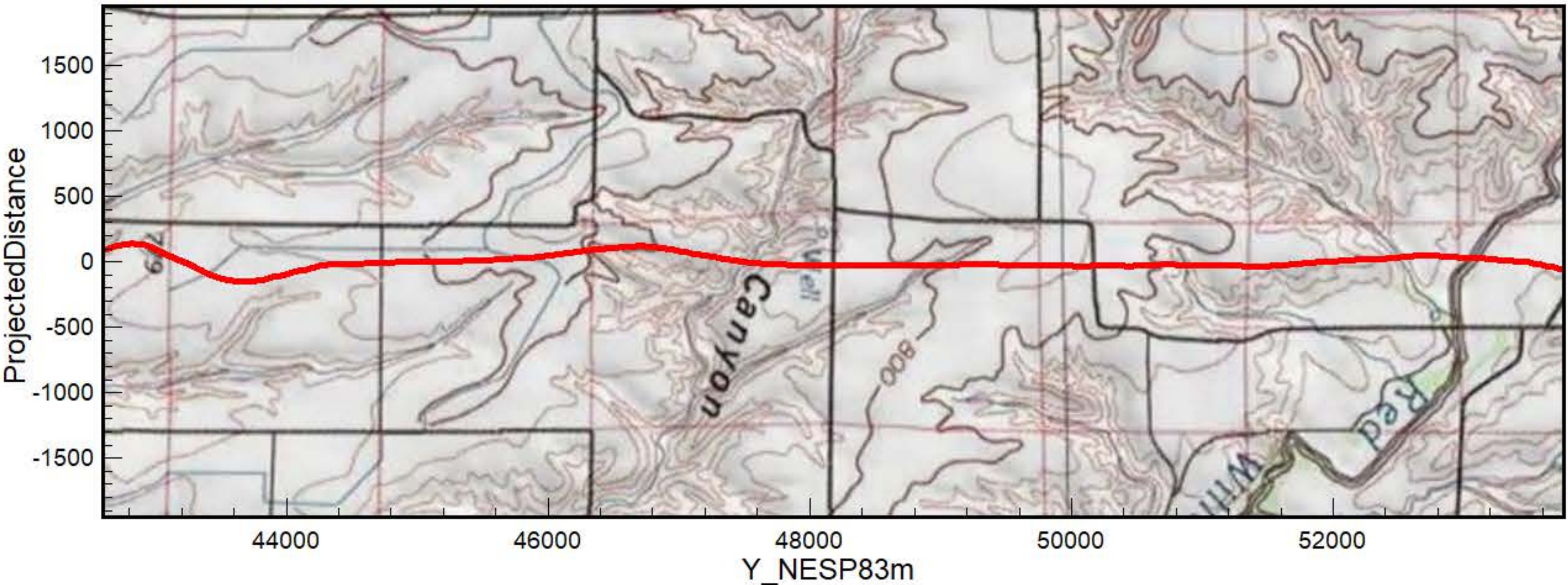
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

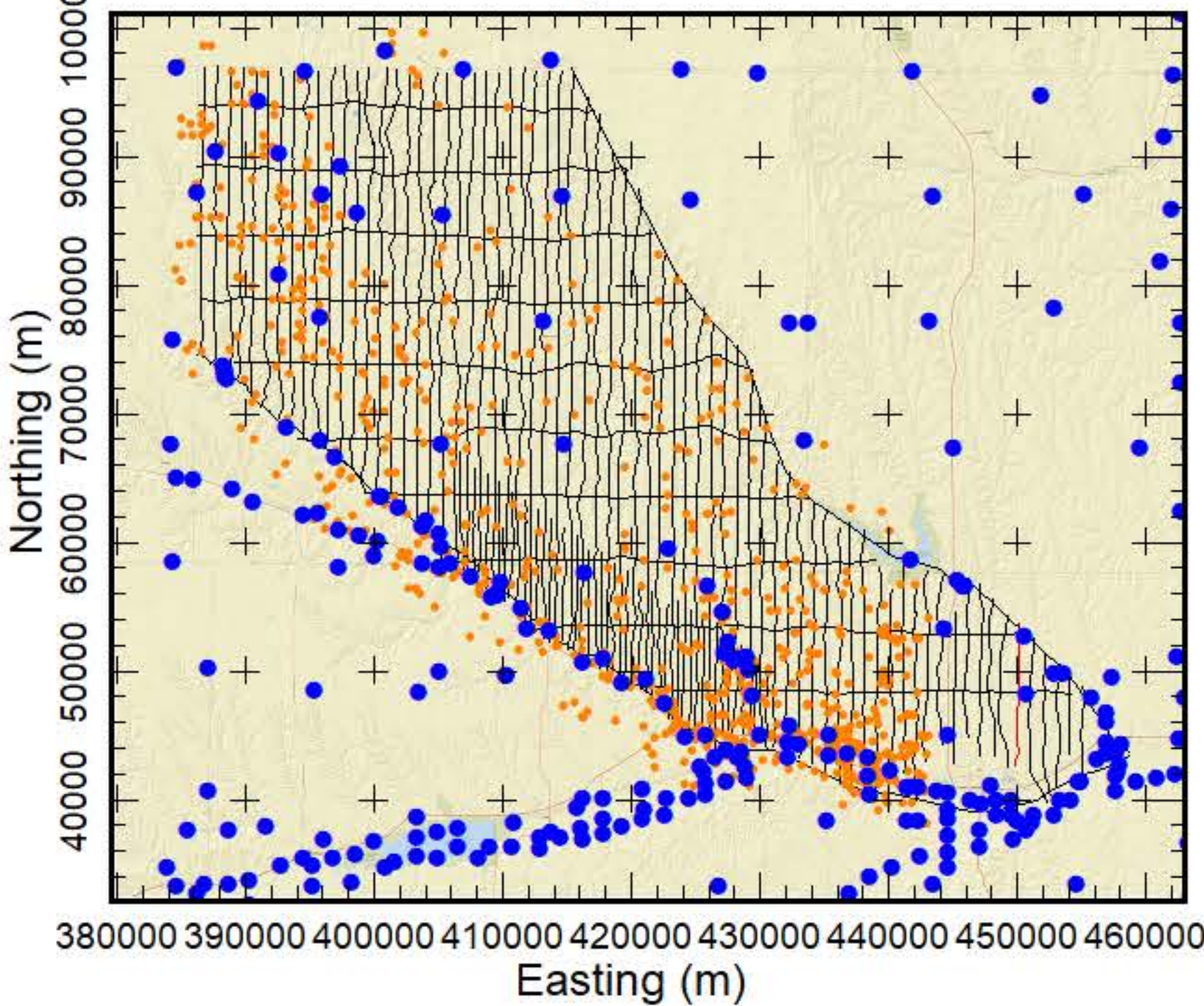




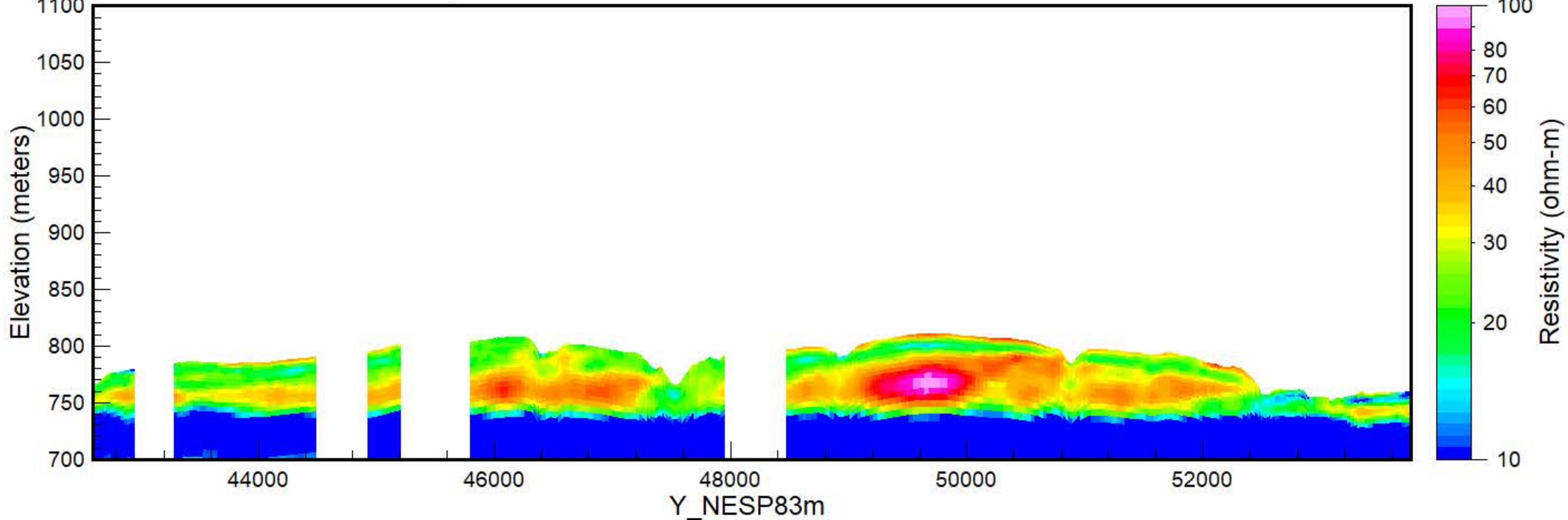
Flight Path Line L201207



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L201207



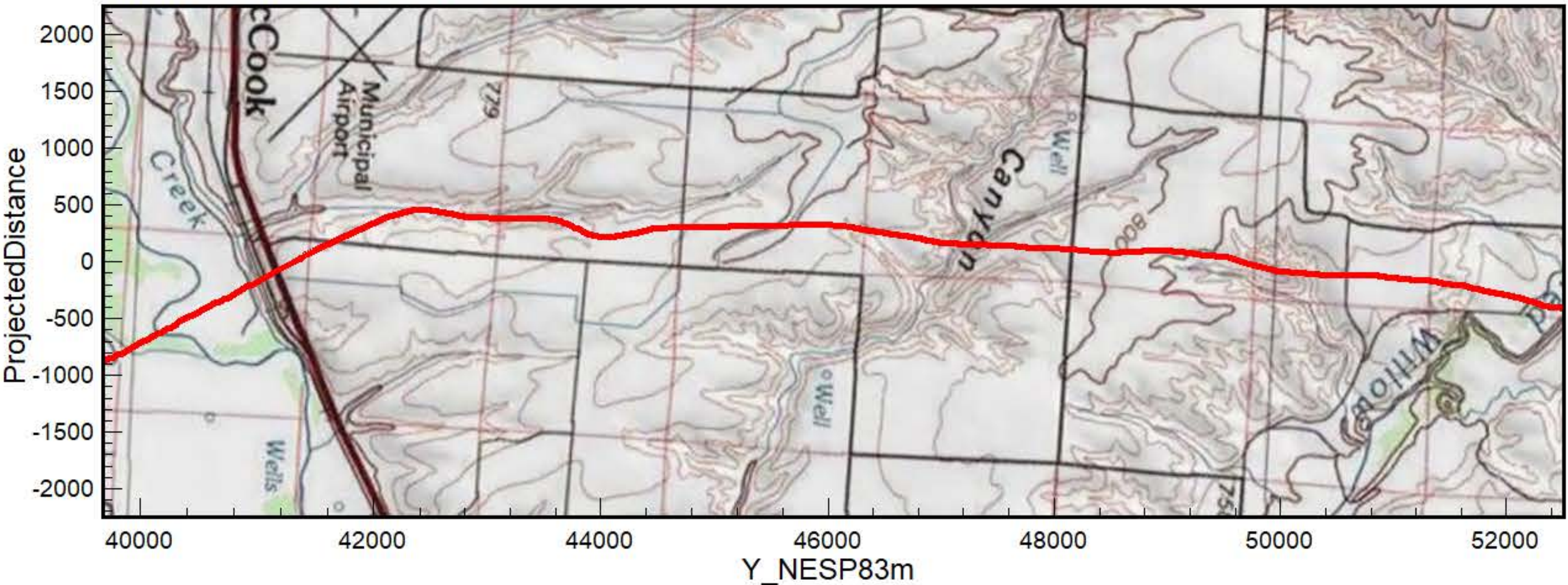
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

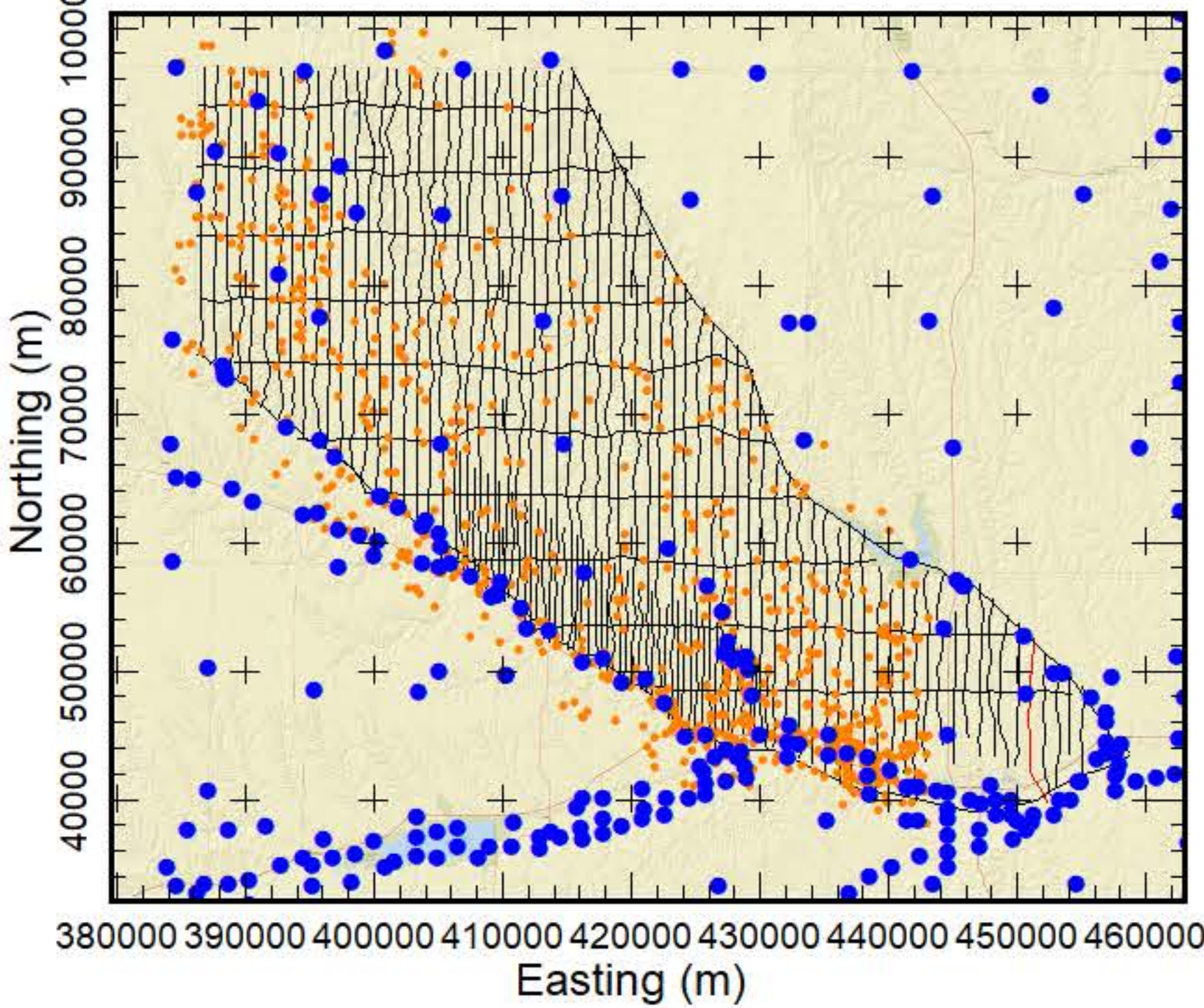




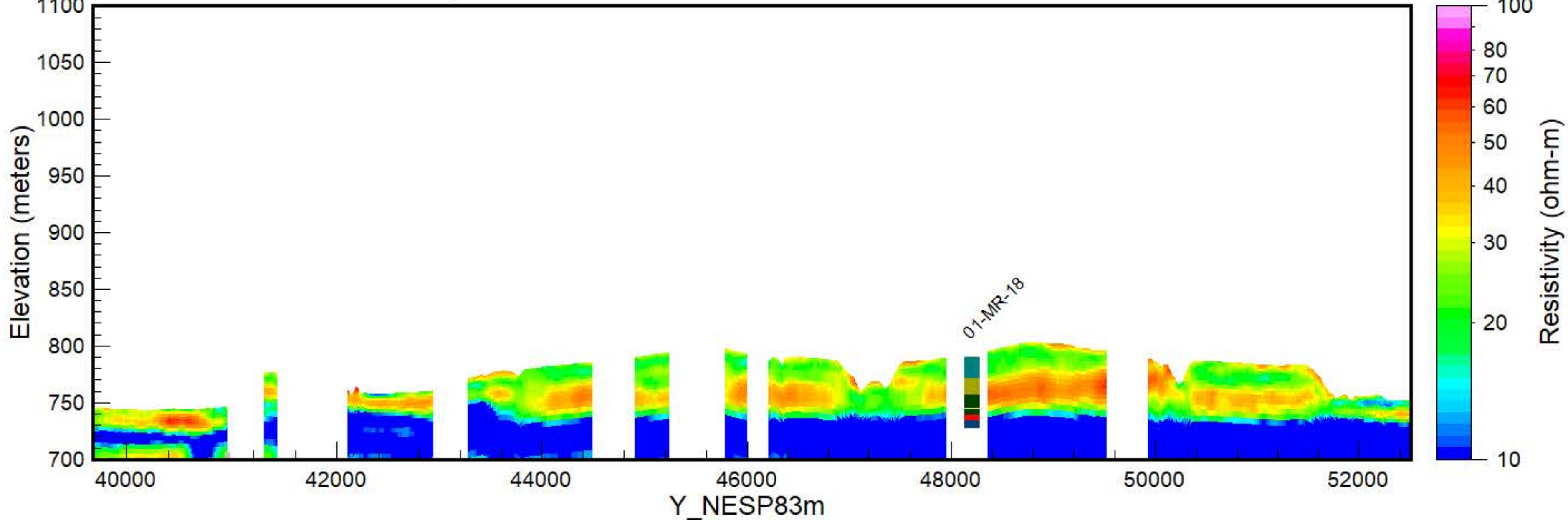
Flight Path Line L201208



MRNRD AEM Survey Area



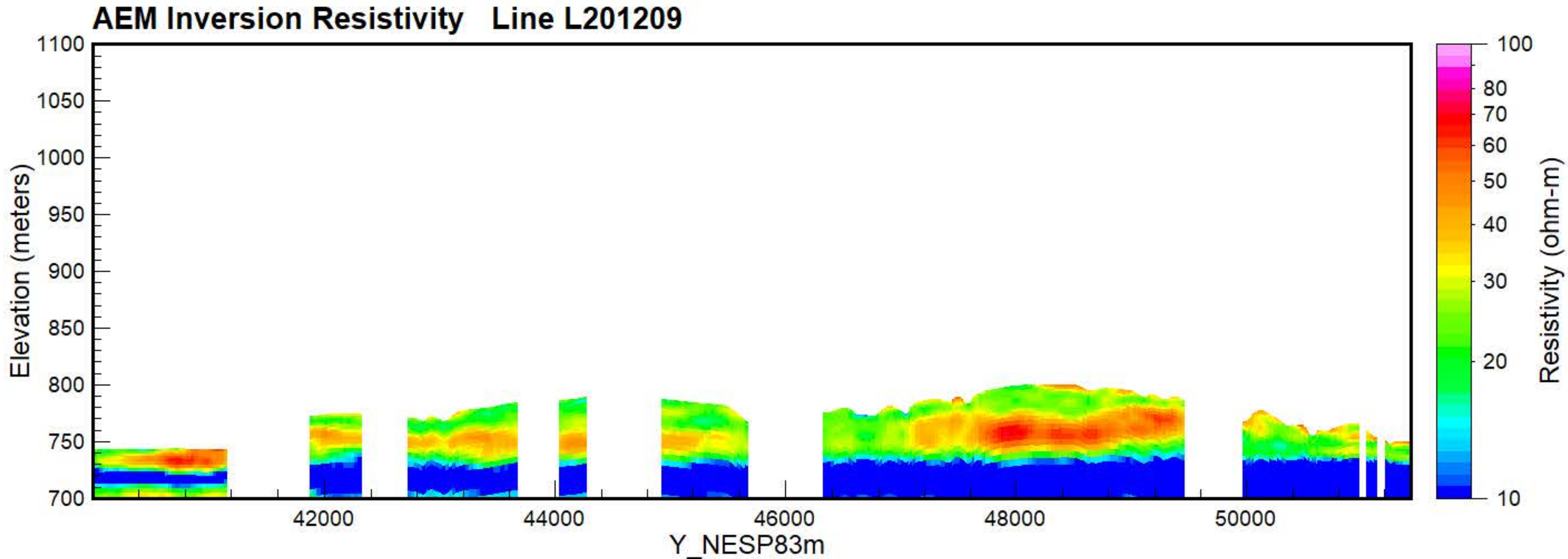
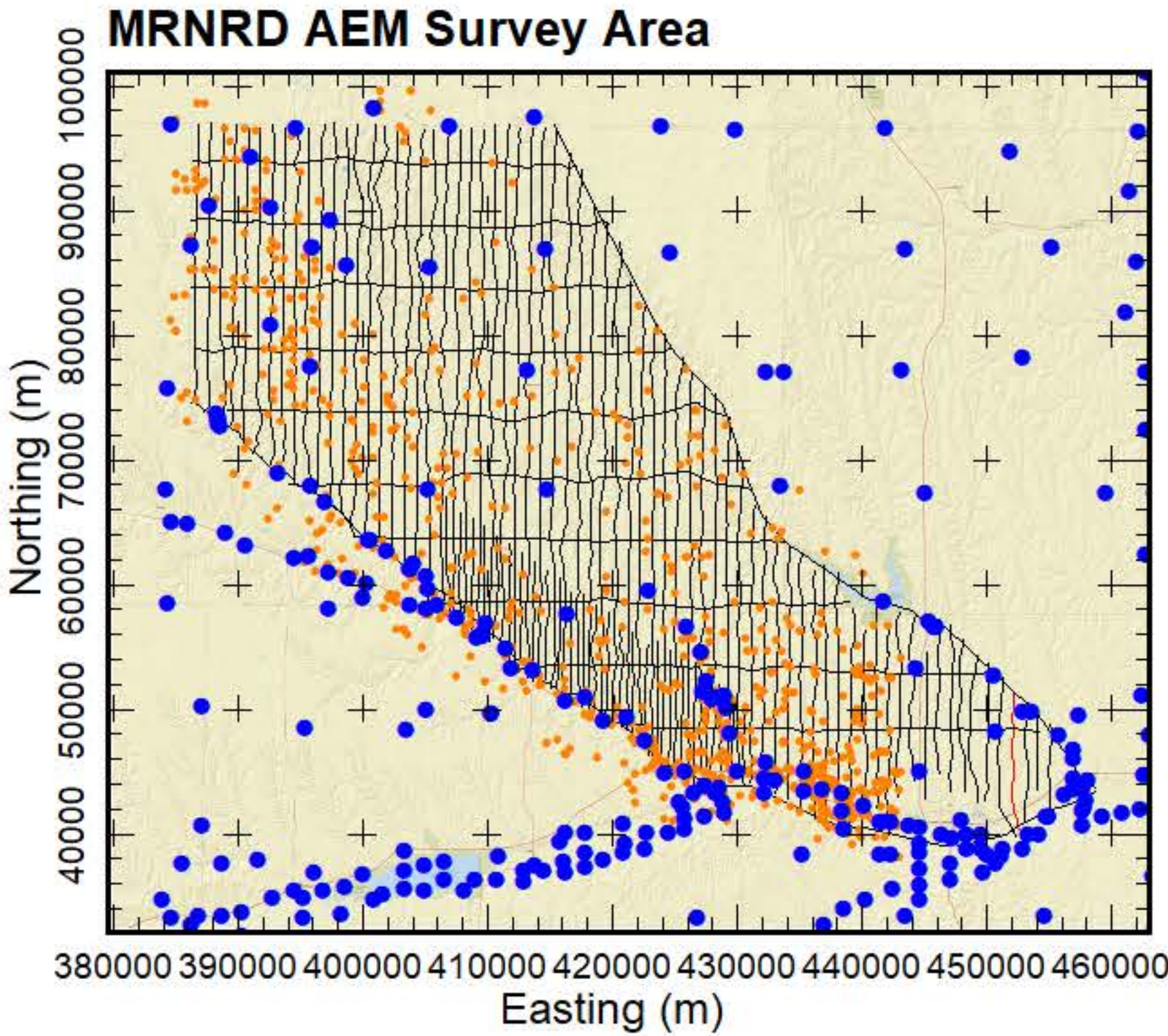
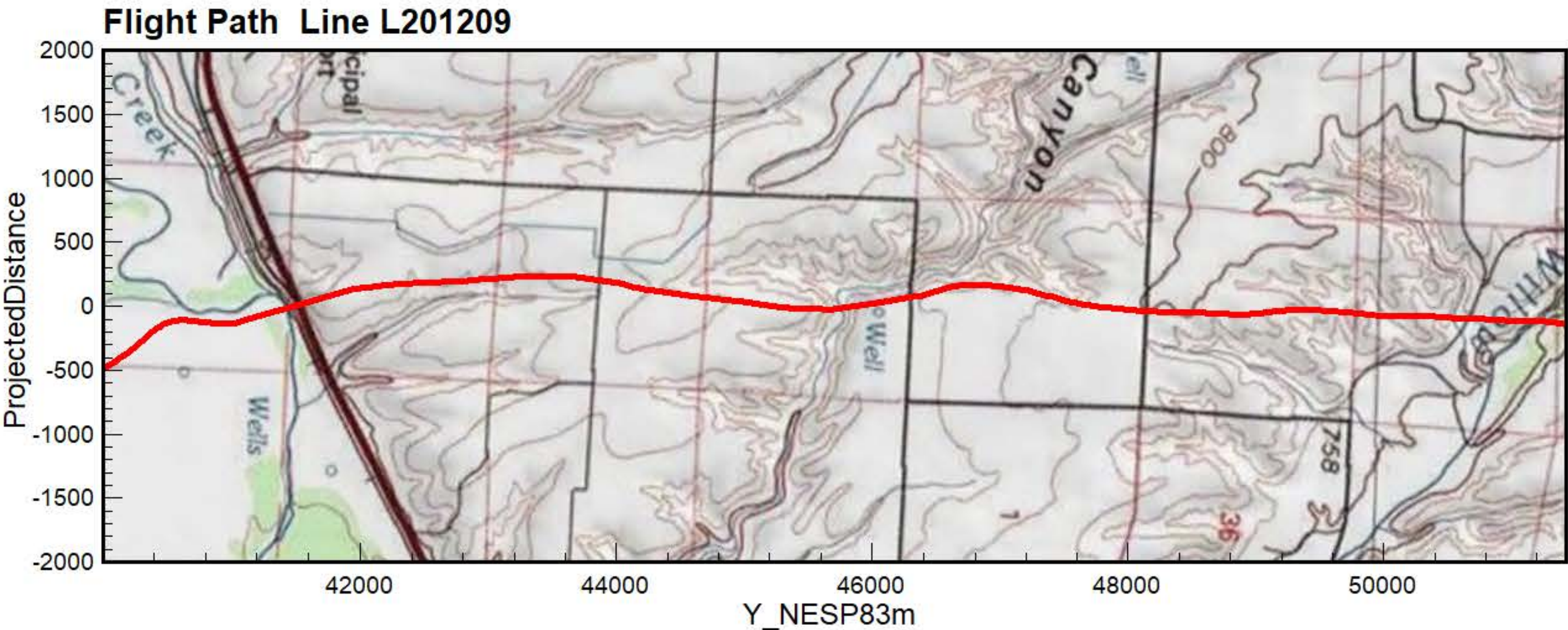
AEM Inversion Resistivity Line L201208



- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).





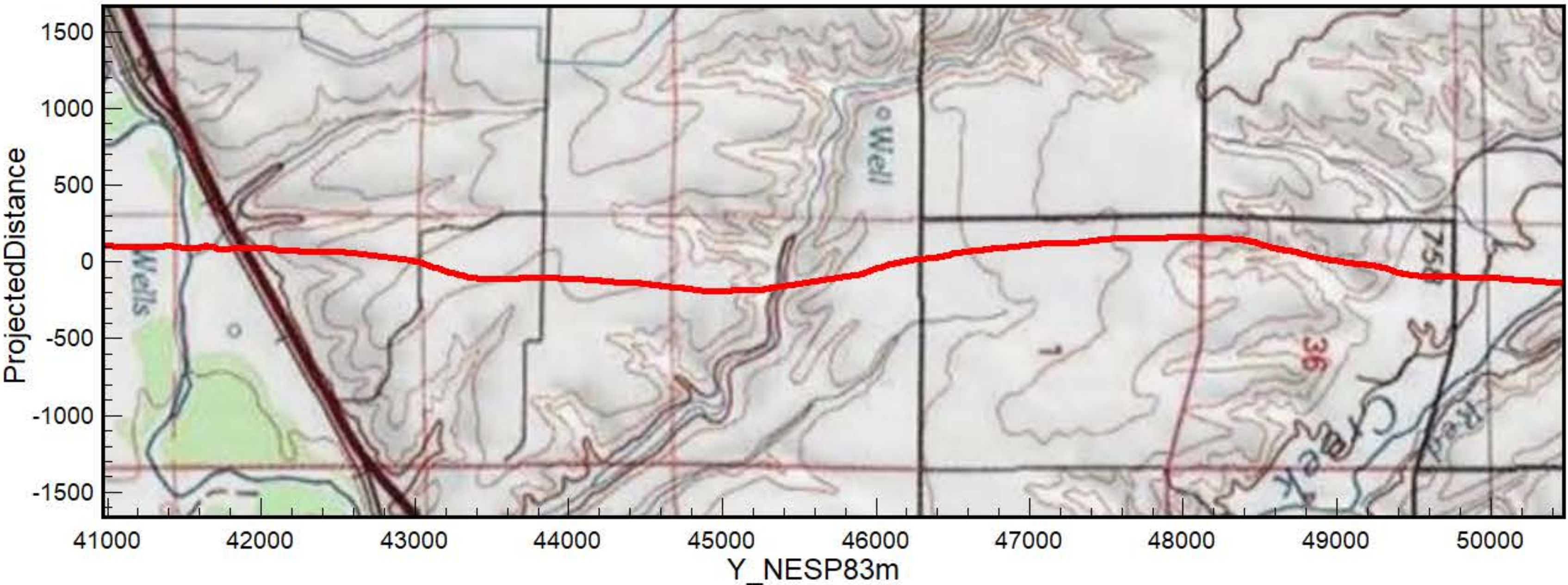
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

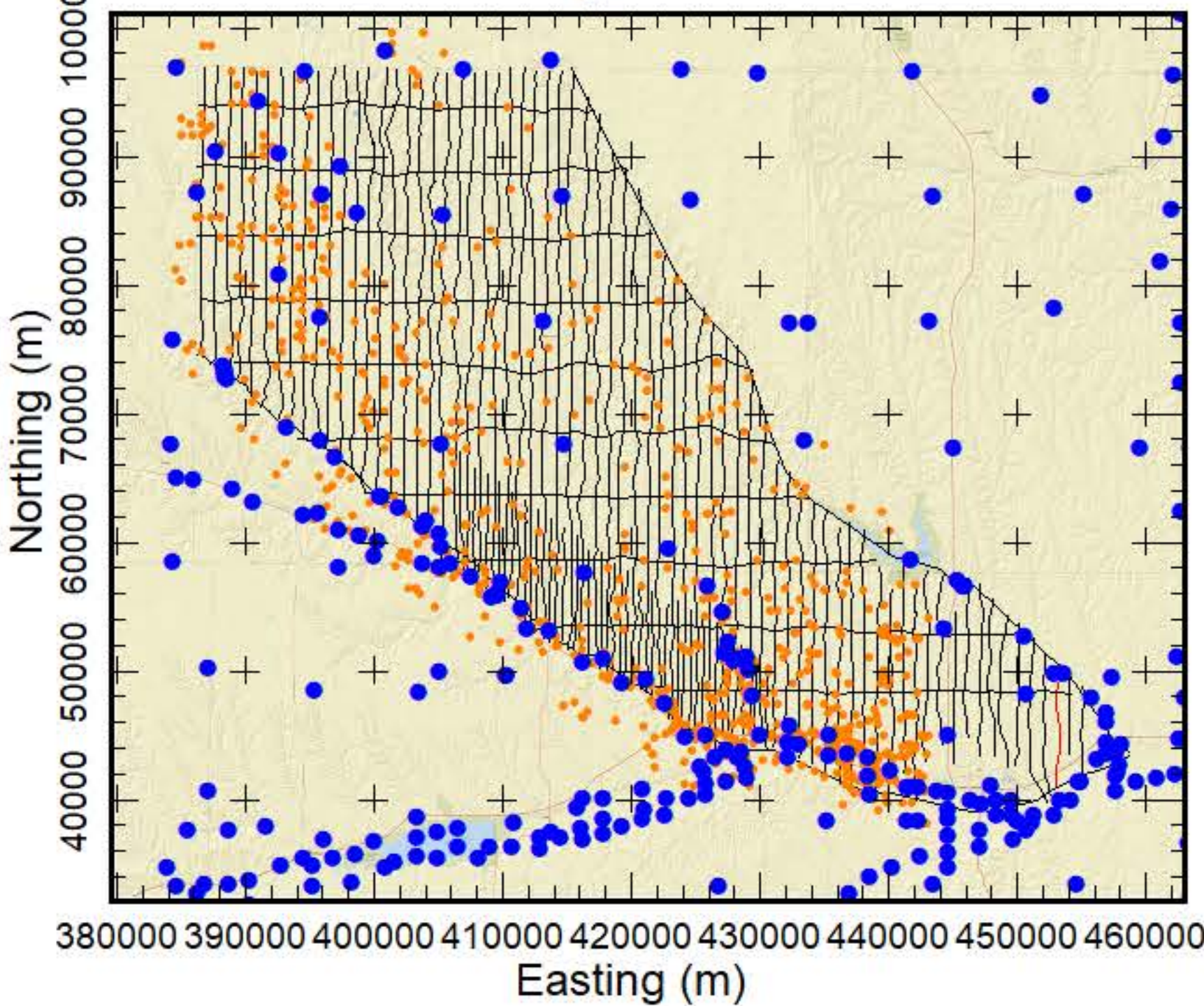




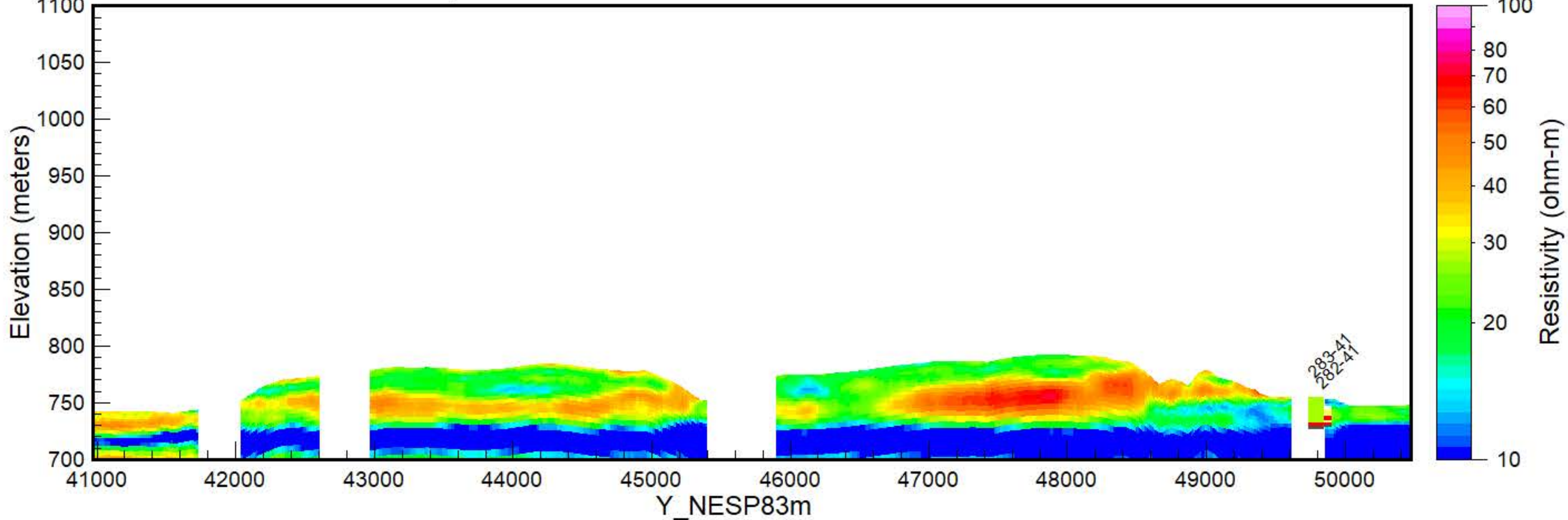
Flight Path Line L201210



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L201210



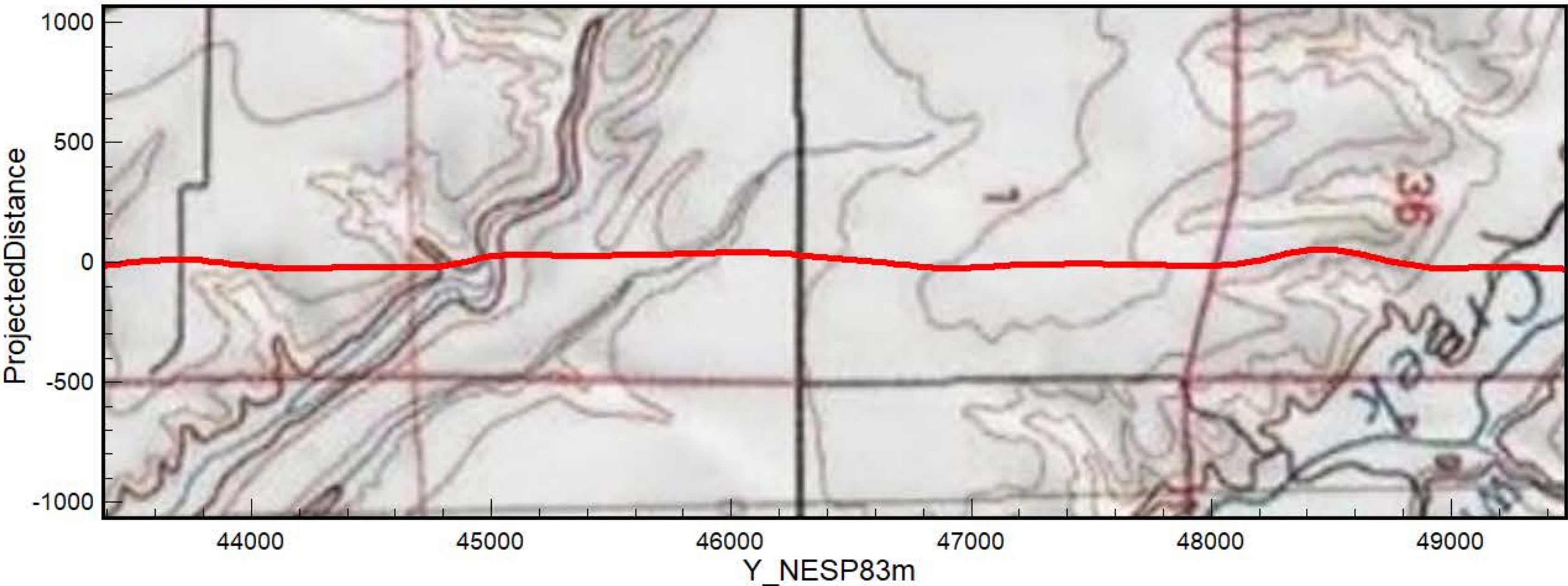
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

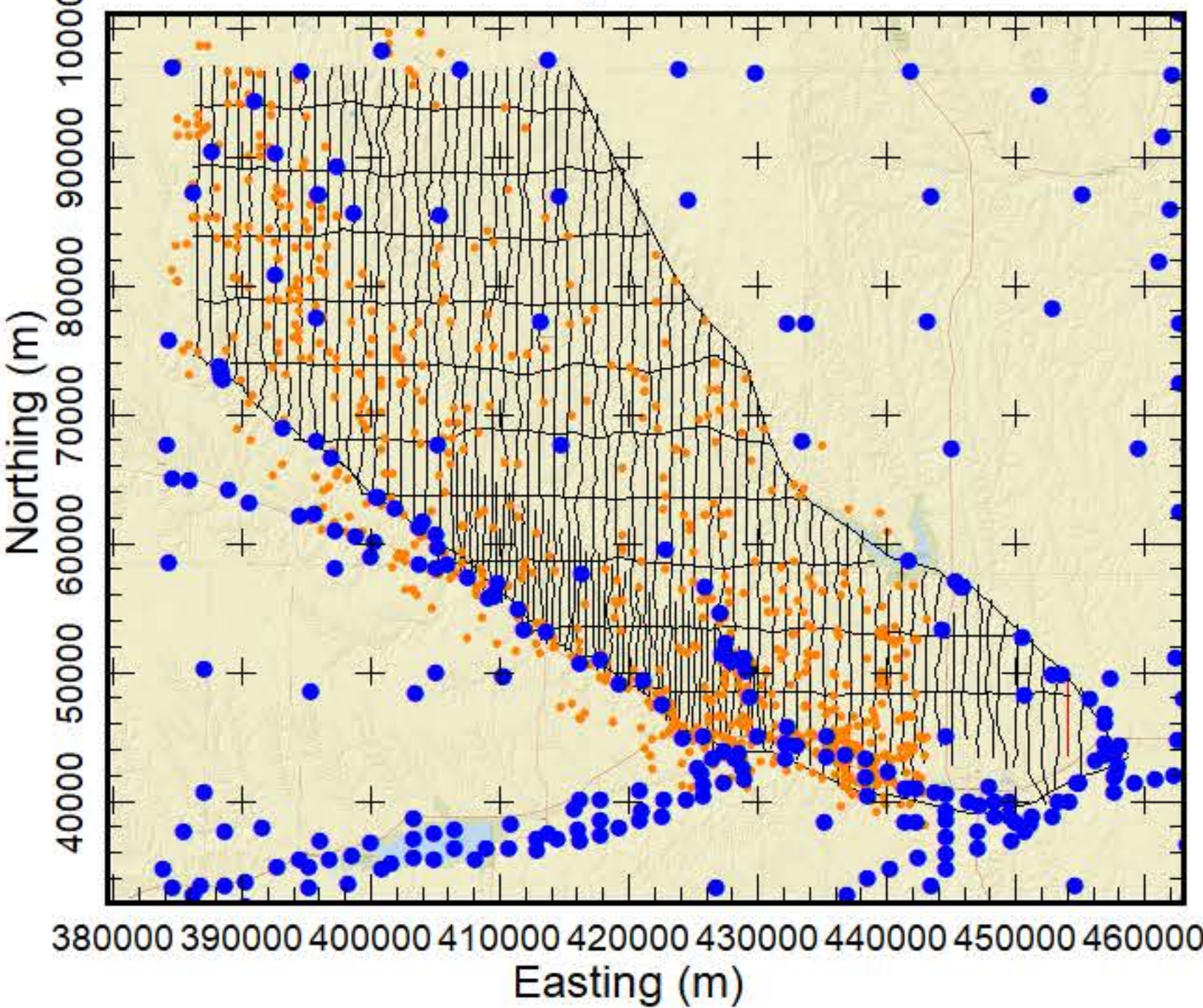




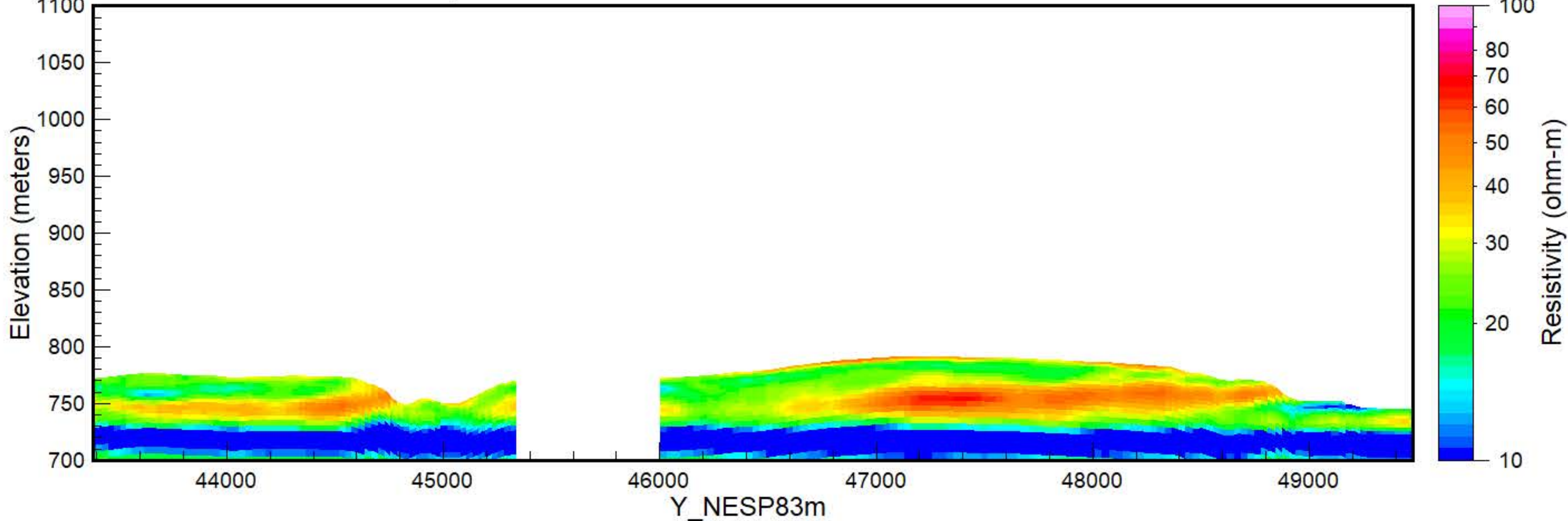
Flight Path Line L201211



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L201211



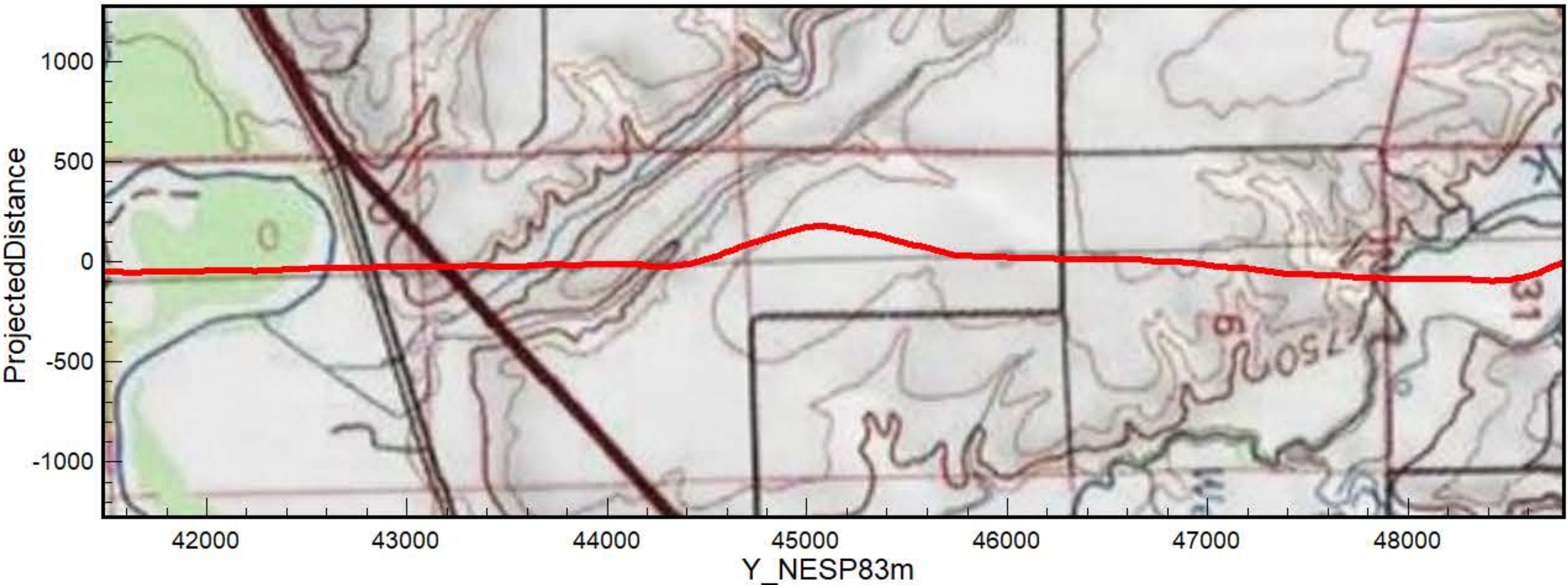
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

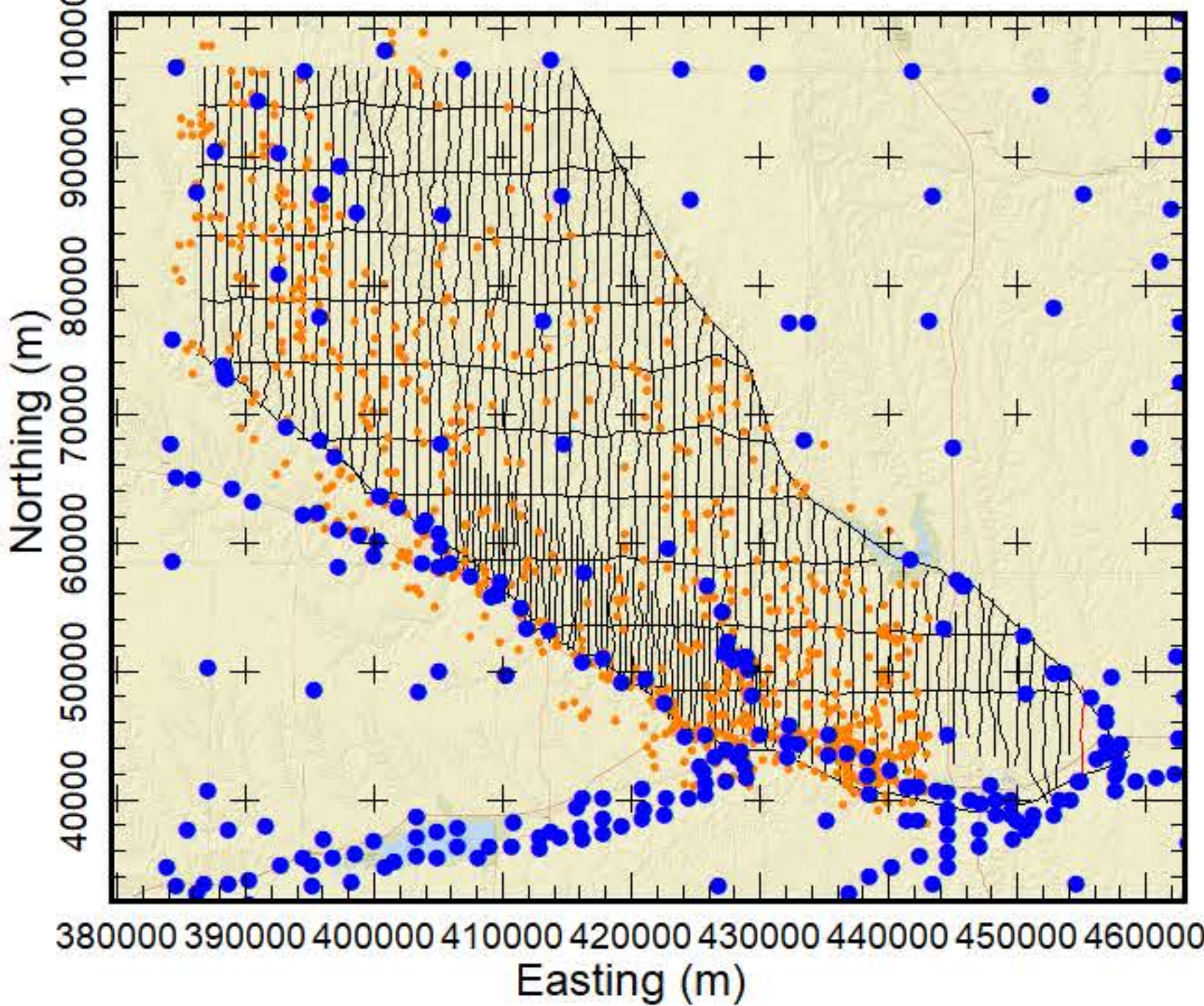




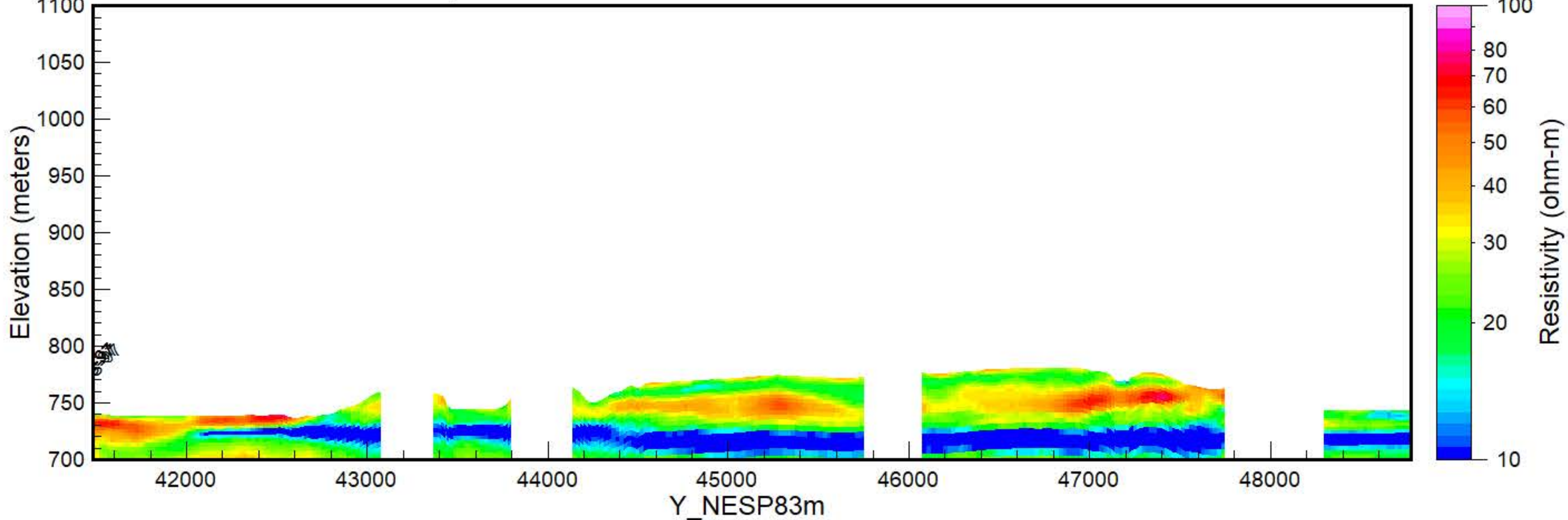
Flight Path Line L201212



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L201212



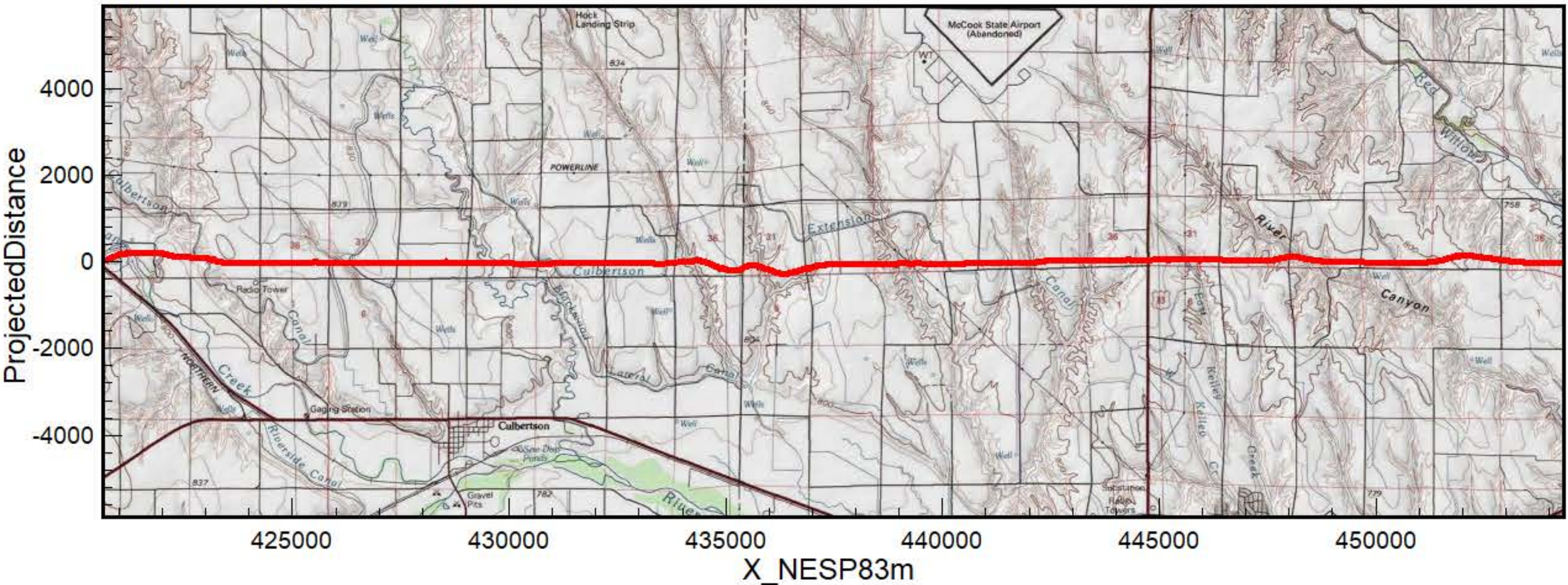
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

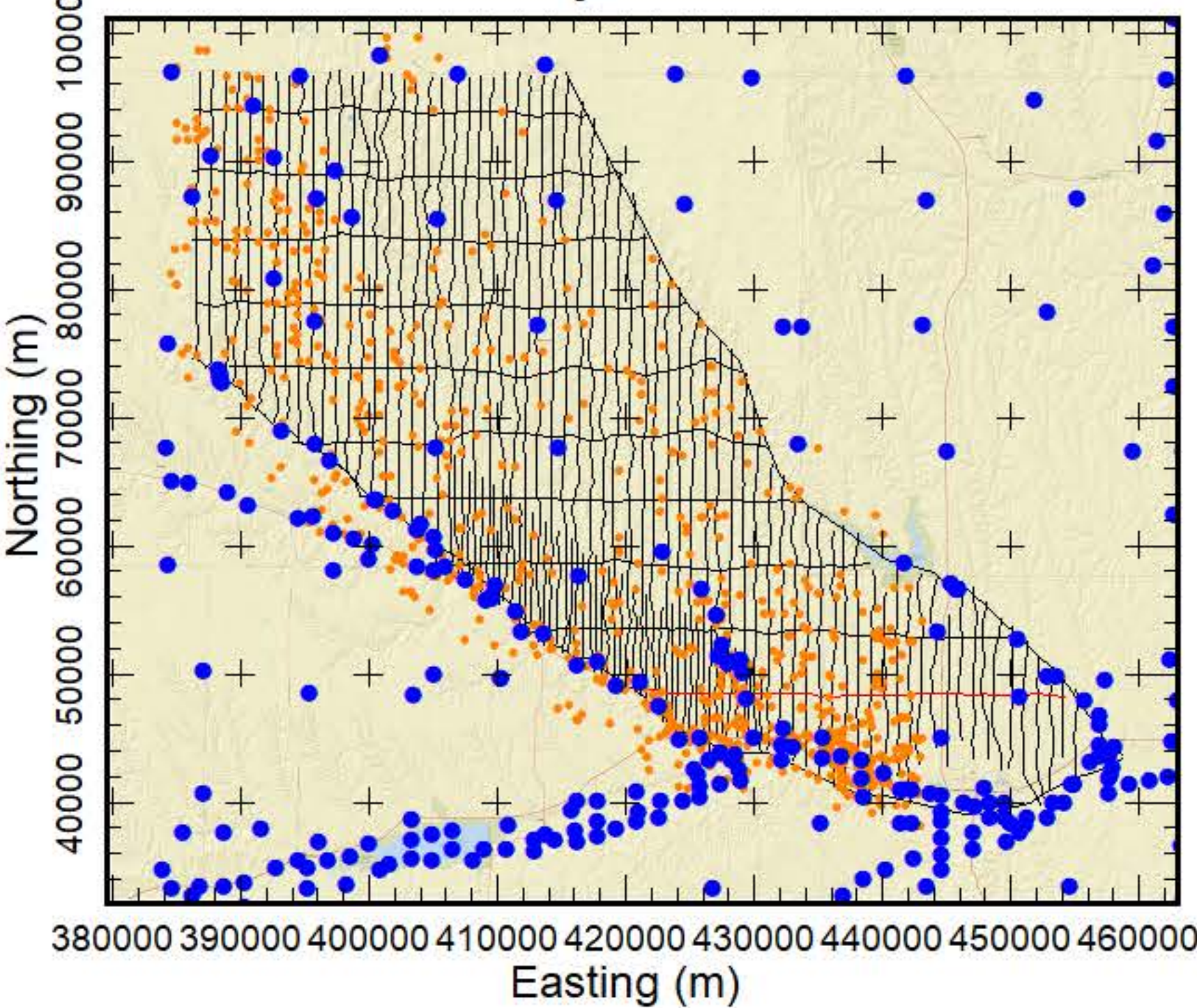




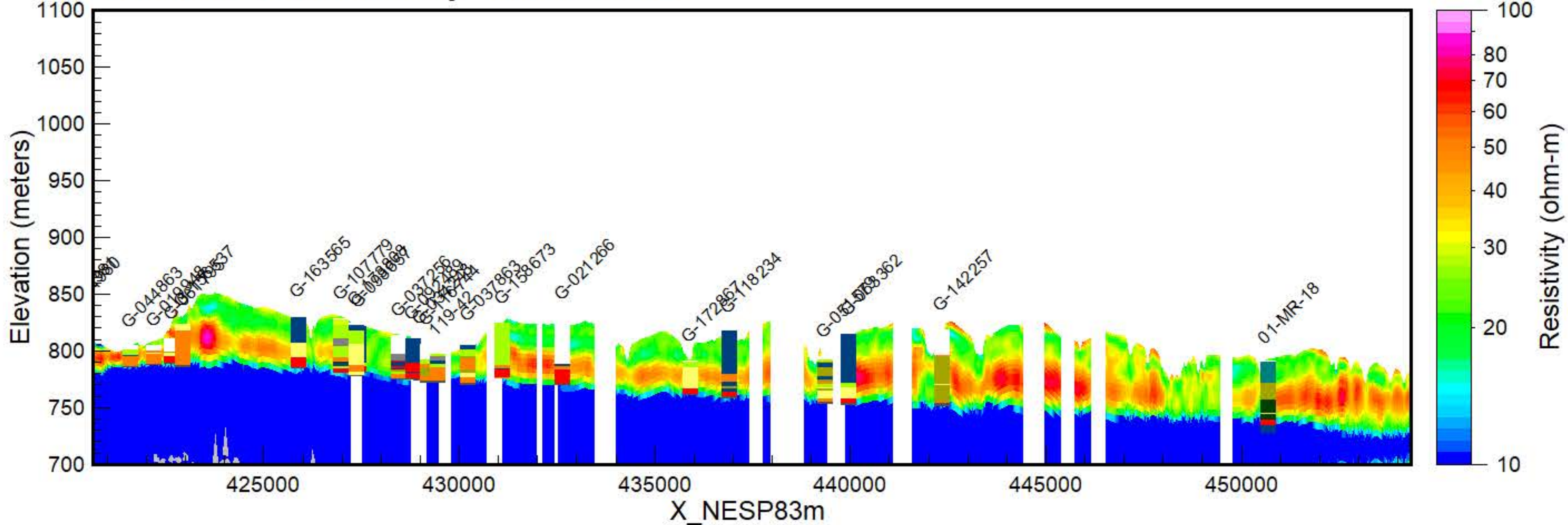
Flight Path Line L201213



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L201213



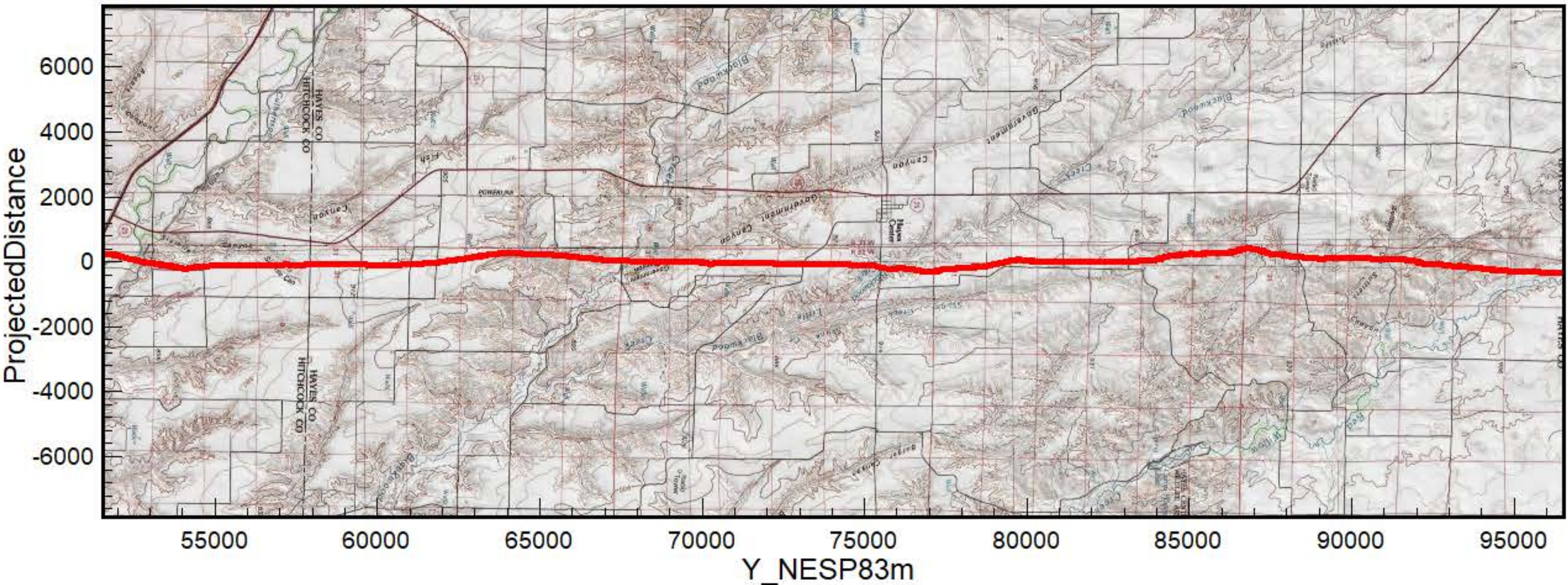
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SC) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

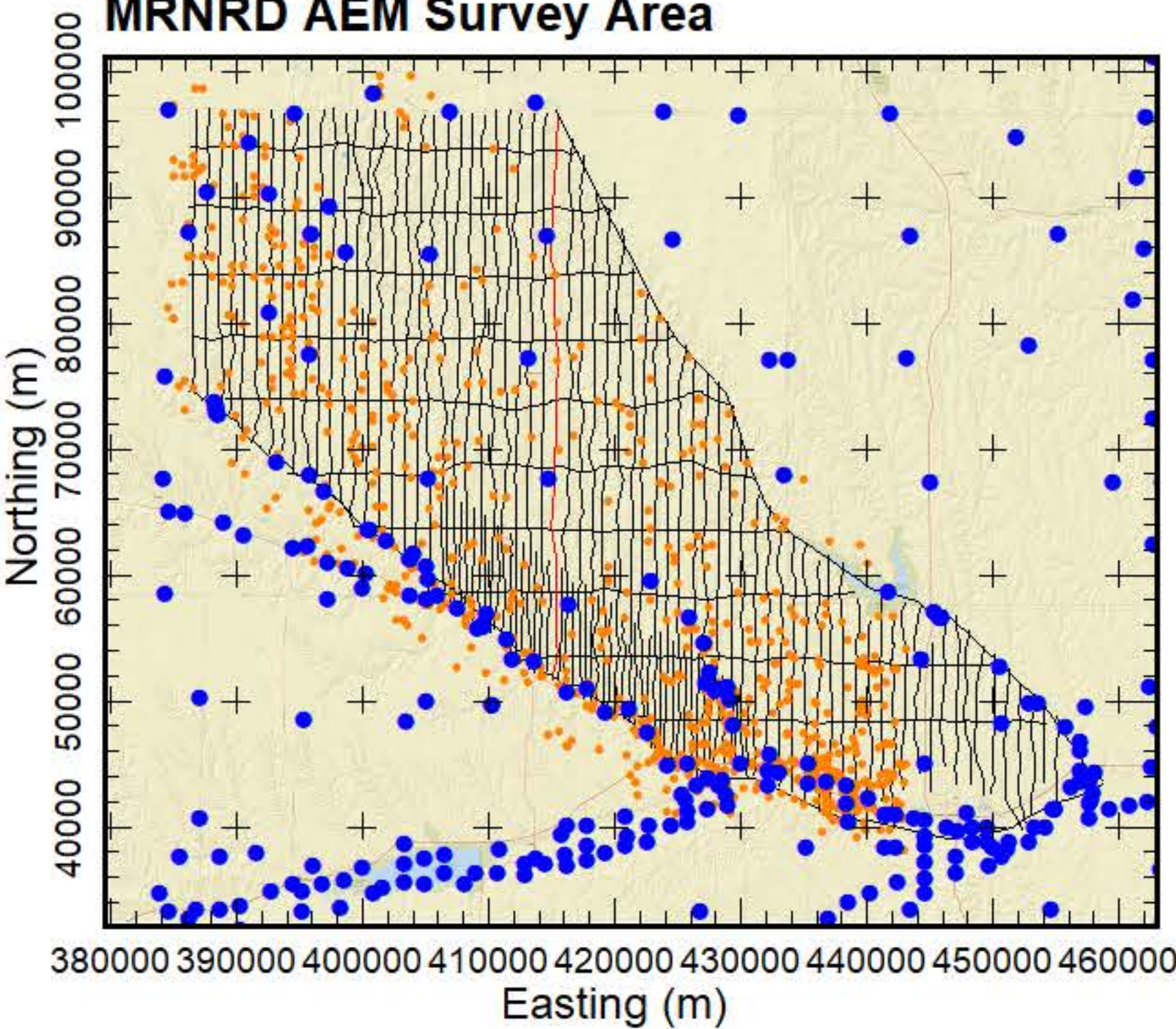




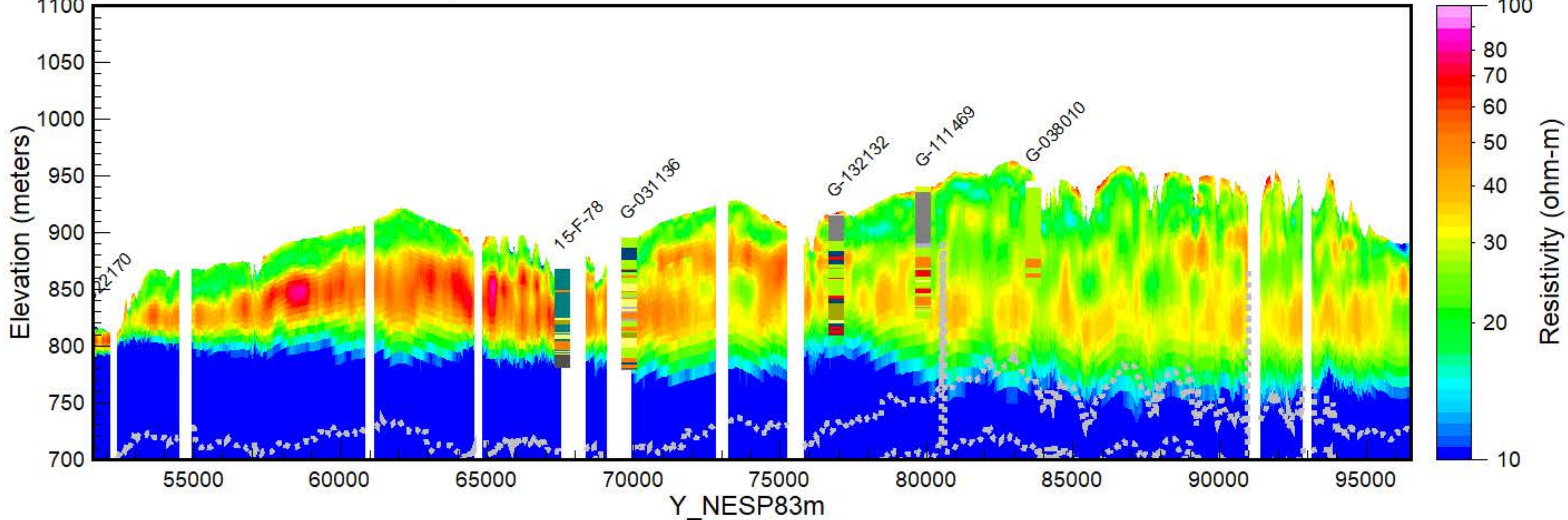
Flight Path Line L201214



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L201214



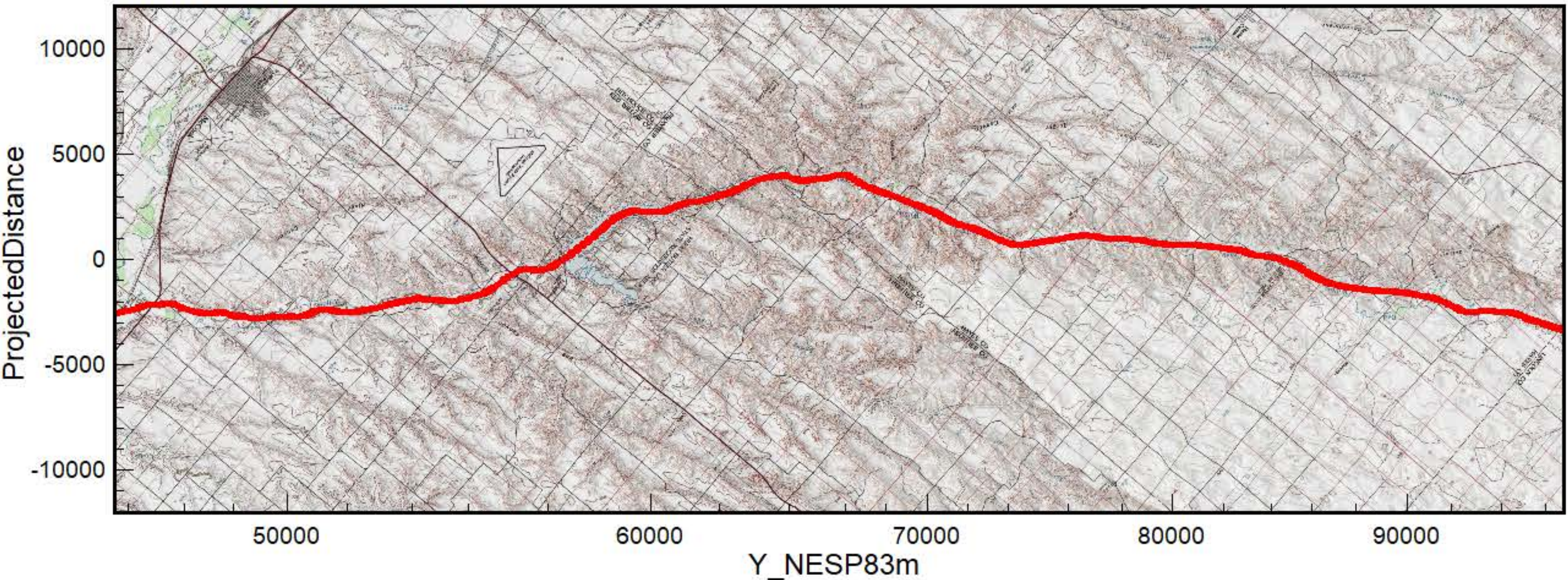
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Grave
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

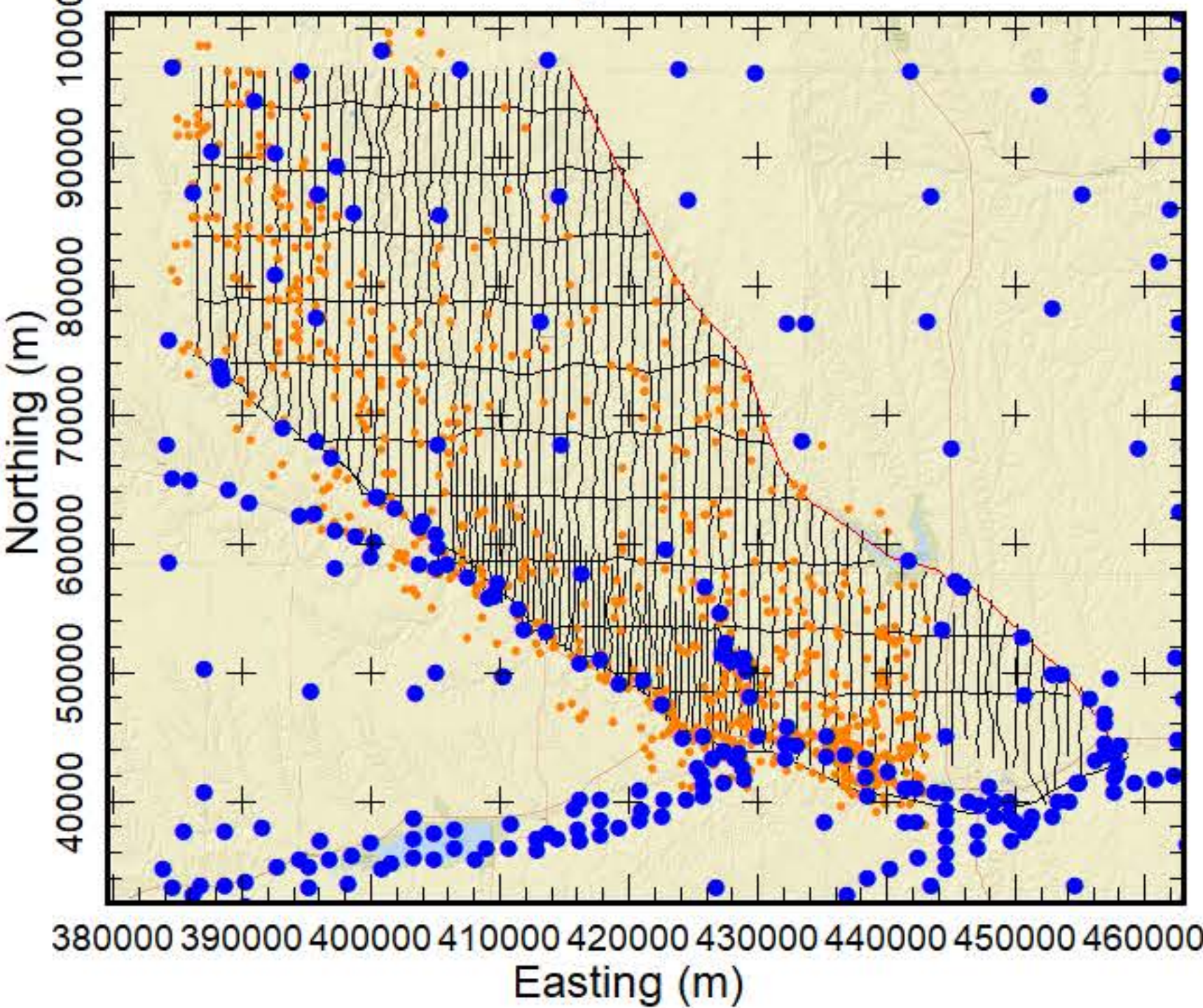




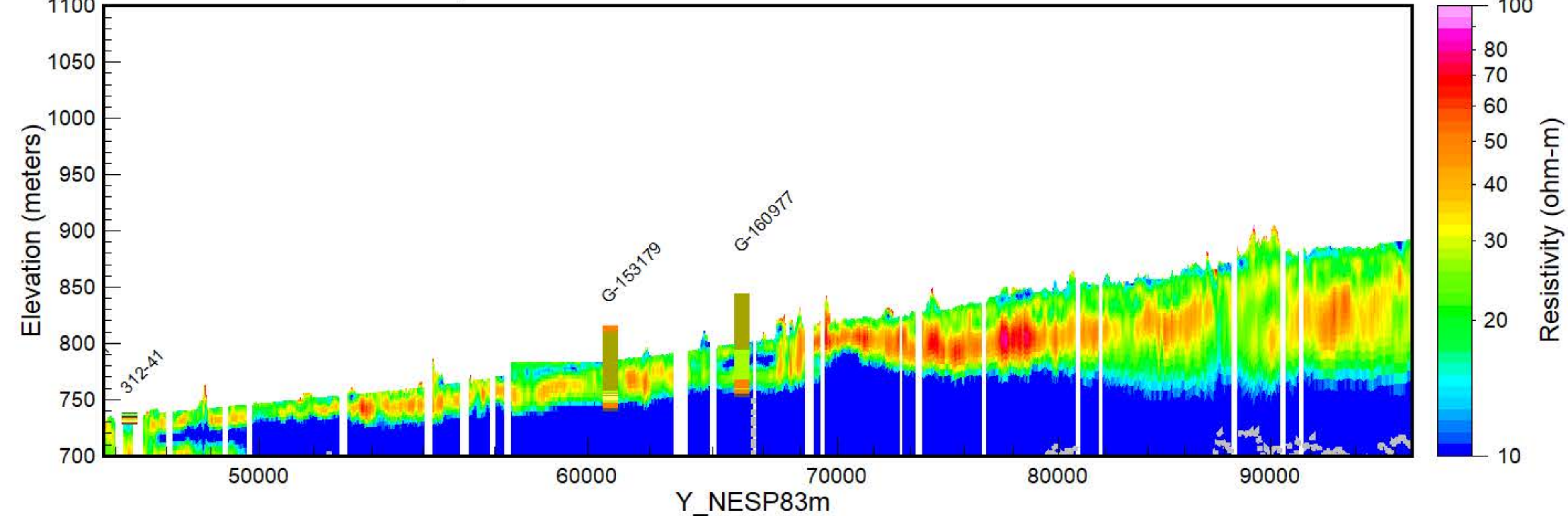
Flight Path Line L201215



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L201215



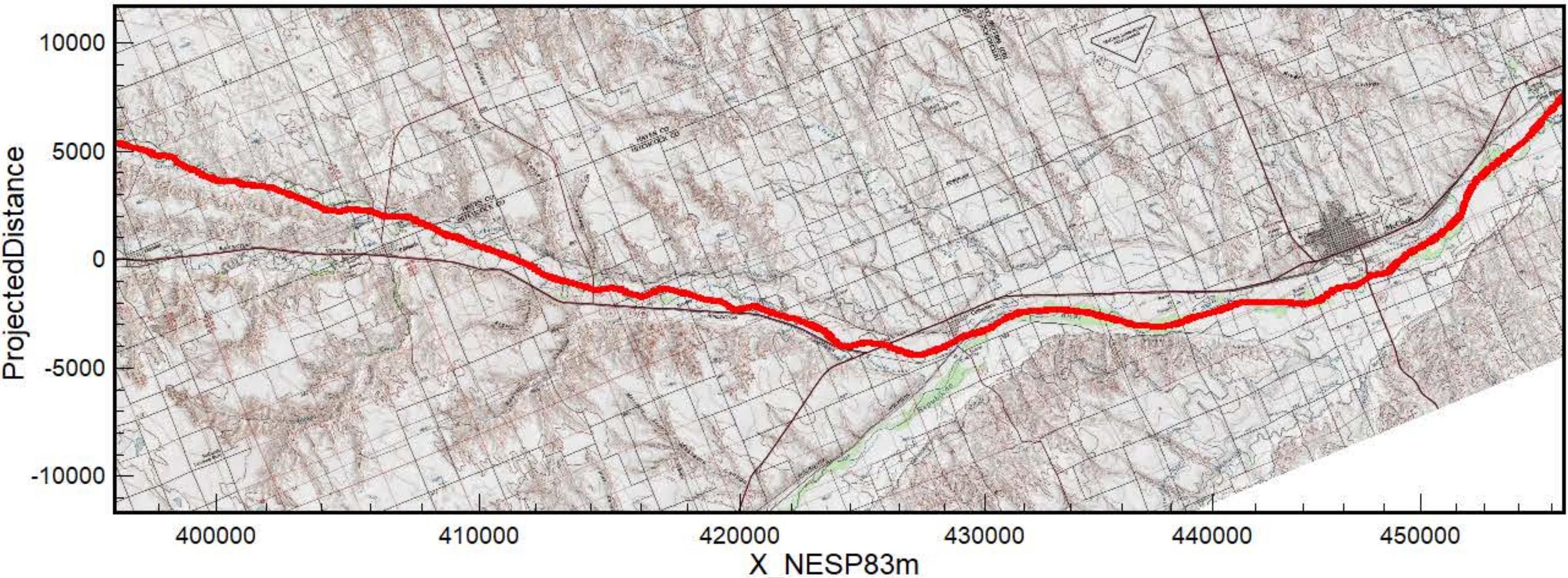
- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).

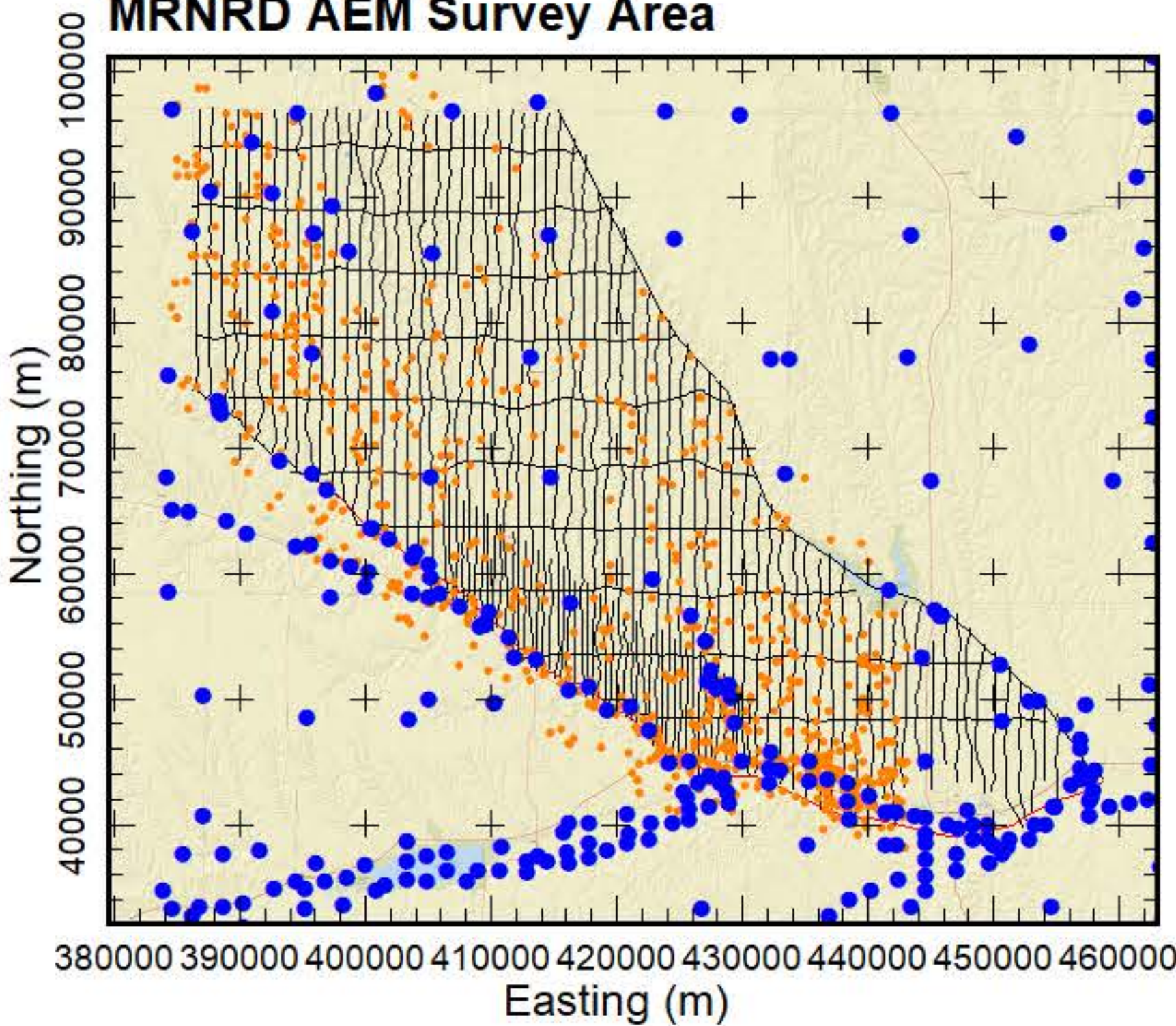




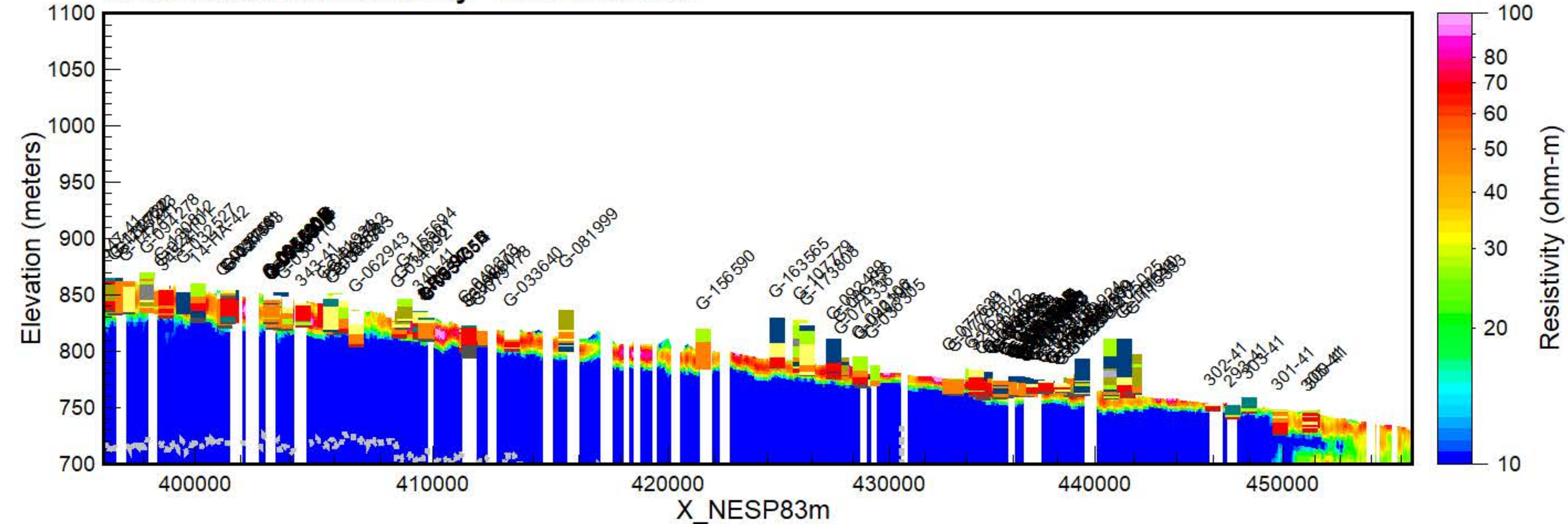
Flight Path Line L201216



MRNRD AEM Survey Area



AEM Inversion Resistivity Line L201216



- Limestone
- Sandstone and Sand
- Sandstone and Shale
- Sandstone
- Siltstone
- Mudstone
- Gravel and Shale
- Sand and Shale
- Shale and Sandstone
- Shale and Clay
- Clay and Shale
- Shale
- Clayey Shale/Claystone
- Sandstone and Gravel
- Gravel and Sandstone
- Coarse-Gravel
- Medium-Coarse-Gravel
- Fine-Medium-Gravel
- Medium-Gravel
- Gravel/Boulders
- Fine-Medium-Coarse-Gravel
- Fine-Coarse-Gravel
- Fine-Gravel
- Gravel and Sand
- Gravel and Silt
- Sand and Gravel
- Coarse-Sand
- Medium-Coarse-Sand
- Medium-Sand
- Sand
- Fine-Medium-Coarse-Sand
- Fine-Coarse-Sand
- Fine-Medium-Sand
- Fine-Sand
- Sand and Silt
- Silt and Gravel
- Silty Sand
- Silt/Loess
- Till
- Silt and Clay
- Gravel and Clay
- Clay and Gravel
- Sandy Clay
- Clay and Sand
- Clay
- Clay and Silt
- Roadfill and/or Topsoil

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Middle Republican Natural Resources District (MRNRD) Flight Area acquired August 4-11, 2020. The red line on the Flight Path map (USGS 100K Topo Map) indicates the location of the data collection. The MRNRD AEM Survey Area map displays the total survey lines as black lines with the current flight line highlighted in red on a general map of the area. The blue dots represent the Conservation Survey Division (CSD) test holes public website downloaded on June 19, 2020 and the orange dots represent the Nebraska Department of Natural Resources (NE-DNR) Registered well database downloaded June 23, 2020. The AEM inversions resistivity shown as profiles are Spatially-Constrained (SCI) using the Aarhus Geo Software Workbench version 6.3.1 and are displayed in the indicated electrical resistivity color scale. Boreholes CSD and NE-DNR displayed on the AEM inversion profile are within 500 meters of the flight line. Lithology is indicated by the legend. Gray-dashed lines when visible on the AEM inversions profile indicate the estimated depth of investigation (DOI). White gaps in the AEM inversion profile indicate gaps in data coverage due to electromagnetic coupling or areas that were not flown due to infrastructure. Prepared for the MRNRD by Aqua Geo Frameworks, LLC. The project projection and vertical datum are NAD83 Nebraska State Plane (meters) and NAVD88 (meters).



