

## WSF 2024 Annual Report #5303

**PROJECT:** P-MRNRD and LPNDRD 3D AEM Hydrogeologic Framework –WSF Application #5303 (awarded November 2020)

**DATE:** MARCH 20, 2024  
(FIRST ANNUAL REPORT DUE ON OR BEFORE APRIL 1, 2024)

[See Application 5303 For Project Scope Summary and Timeline](#)

### PROJECT PROGRESS NOV 2020 TO APRIL 2024:

The P-MRNRD acted as the administrative agent for this project through an Interlocal Agreement with LPNDRD. The P-MRNRD signed a professional services agreement with Leonard Rice Consulting Water Engineers, Inc. (LRE) to synthesize and analyze AEM and other geologic data into a 3D software, Leapfrog. This agreement with LRD was executed in Dec. 2020.

LRE began work in January and has completed data collection and started assembling the 3D model. Results and deliverables were provided by Dec. 2021. Review by both NRDs and NDNR has been completed and final revision was made by LRE. The final report and deliverables have been received and is currently being utilized in the creation of a new District groundwater model.

### ANTICIPATED ACTIVITIES FROM NOW UNTIL NEXT ANNUAL REPORT DUE APRIL 1, 2025

This report will serve as the FINAL report for the Papio-Missouri River NRD's "PMRNRD and LPNDRD 3D AEM Hydrogeologic Framework - WSF #5303." Final deliverables from this effort were provided by LRE in 2022.

### ANTICIPATED CASH FLOW FOR REMAINDER OF THE PROJECT:

\$0 - The P-MRNRD and WSF have completed all funding obligations for this project. The project's final billed cost was \$292,578.61 out of a contracted budget of \$306,000. This leaves \$13,421.39 on the contract which will not be billed for to the Papio NRD or WSF.

### LIKELIHOOD THAT BENEFITS PROJECTED IN APPLICATION 5303 WILL BE REALIZED:

All benefits detailed in the WSF application have been realized after completing this project. This enhanced data produces the geologic layers necessary to run groundwater models of the glaciated geology found in eastern Nebraska. The resulting geologic data from this project is currently being incorporated into a district groundwater model partially funded by WSF #10070.