



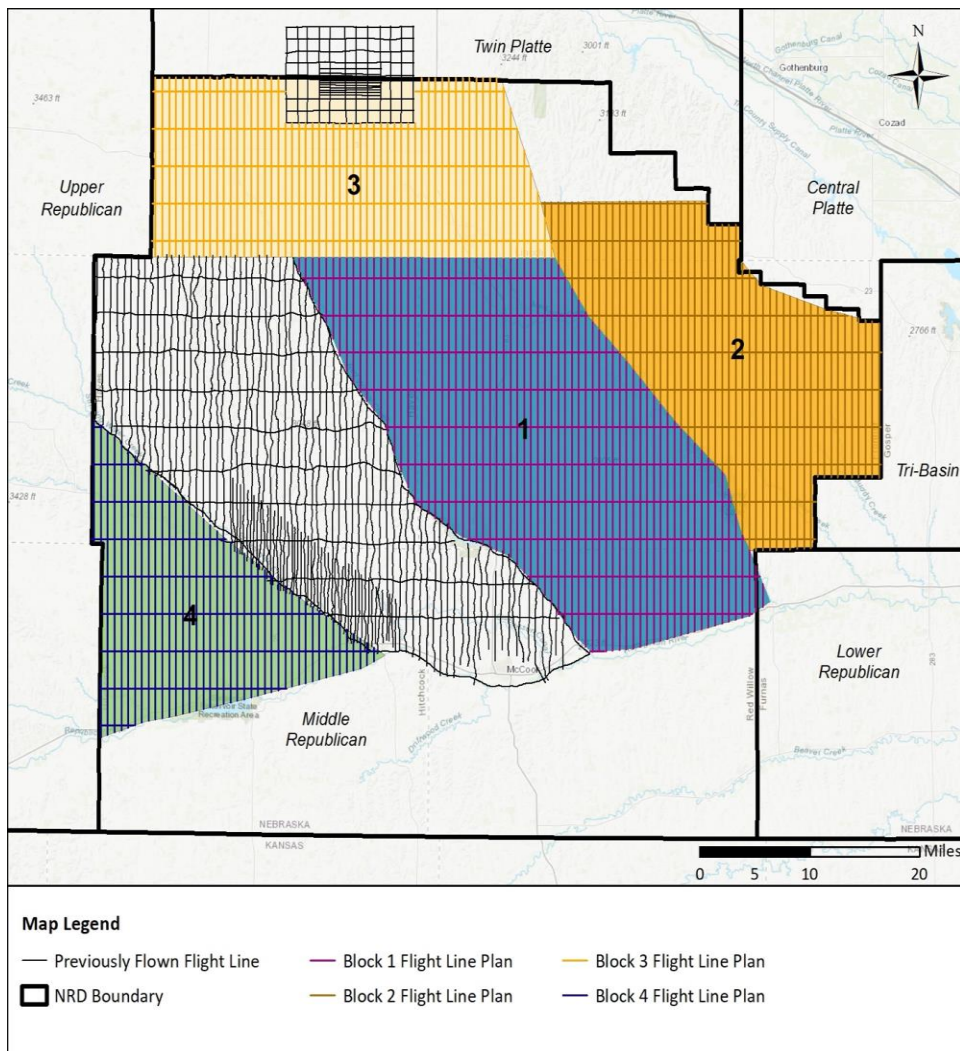
WSF 2024 Annual Report

Grant Application No. 5315

Titled: MRNRD Map and Model for Water Balance

Grant Amount: \$1,222,899.17

Project Progress:



Block 2 was flown during the summer of 2023 and all inversions and QA/QC of the data have been submitted for the next phase of data processing. We are currently planning for blocks 3 and 4 to finish flying the AEM survey of the district in the summer of 2024. This includes mapping powerlines and optimizing the helicopter flight path to ensure we collect as much usable data as possible. We have also made good progress on the groundwater model

accompanying this data. The model domain and geologic framework have been completed. The next step for that portion of the project will be to calibrate the model.

Project Activities for coming year:

The activities for the coming year begin with determining our flight lines for our final AEM survey of this project. This will include mapping power lines and finalizing a flight path. AEM flights will take place in June of 2024. After the flights our contractor will do the data inversions and QA/QC the data for submission.

Reassessment of the Project Benefits:

Reassessment of project benefits will be more evident as this project progresses. We have currently only seen preliminary information based on these surveys and has not been assessed to an extent to define new benefits.

Summary:

The MRNRD is on track to complete this project on time and hasn't had any major changes in the process or timeline. We are over halfway done with the AEM flights, and the modeling and data processing is underway. We look forward to seeing the capabilities of the AEM surveys and how this data will be used into the future.