

WSF 2019 Status Report # 5206

PROJECT: Lower Loup NRD Aquifer Framework Mapping Project –
WSF Application #5206 (awarded December 18, 2018)

DATE: MARCH 29, 2019
(FIRST ANNUAL REPORT DUE ON
OR BEFORE APRIL 1, 2019)

See Application 5206 Section D #2 For Project Tasks Summary and Timeline

PROJECT PROGRESS DECEMBER 2018 TO APRIL 2019:

The Lower Loup Natural Resources District (LLNRD) secured Aqua Geo Frameworks, LLC. (AGF) for the above referenced mapping project for the Buffalo County / South Loup Basin area. AGF and the LLNRD met on February 27 for a planning session to determine the priorities of data collection, and to denote the specific area of interest for the South Loup River Basin and aquifer focus in northern Buffalo County. The LLNRD has started denoting no-fly zones within the study area and is utilizing GIS to georeference these areas for flight pattern development.

At the March 10 LLNRD staff meeting, a project summary and timeline were presented to all LLNRD staff. At the March 28 LLNRD Board of Directors meeting, the required 30% of the total project cost (\$139,800) due to AGF upon signing the professional services agreement, was approved unanimously.

ANTICIPATED ACTIVITIES FROM NOW UNTIL NEXT ANNUAL REPORT DUE APRIL 1, 2020:

An additional project meeting to denote priority areas is expected to take place in spring of 2019. AGF will secure a vendor for the airborne electromagnetics (AEM) flights, scheduled sometime in August, dates dependent on weather conditions. All project planning, AEM data acquisition, QA/QC, and preliminary inversion work is expected to be completed by approximately September 8. AGF will begin development of the hydrogeologic framework approximately January 15, 2020. The final report will be delivered to the LLNRD by AGF with corresponding data on or about April 1, 2020.

ANTICIPATED CASH FLOW FOR REMAINDER OF THE PROJECT:

\$250,000 - The LLNRD and Water Sustainability Fund (WSF) have funding obligations towards this project (\$466,000 total project costs) under grant award #5206.

Upon completion of the AEM data acquisition in September of this year, 50% of the total project cost (\$233,000) will be due from LLNRD to AGF. The remaining 20% (\$93,200) will be due to AGF approximately April 1, 2020, upon delivery of completed report to the LLNRD.

LIKELIHOOD THAT BENEFITS PROJECTED IN APPLICATION 5206 WILL BE REALIZED:

Based on the previous project results and experience with working through the WSF, provided by both the LLNRD and AGF, the project is on target for achieving all benefits described in the original application.