

## WSF 2023 Annual Report # 5311

**PROJECT:** Lower Platte South Natural Resources District Three-Dimensional Hydrogeologic Framework #5311 (awarded December 2021)

**DATE:** MARCH 27, 2023  
(SECOND ANNUAL REPORT DUE ON OR BEFORE APRIL 1, 2023)

**See Application 5311 for Project Scope Summary and Timeline; See 2022 Annual Report for Activities Prior to April 2022**

### PROJECT PROGRESS APRIL 2022 TO APRIL 2023:

LPSNRD sent out an RFQ in March 2022 and contractor bids were received in April 2022. A selection team from LPSNRD reviewed the submittals and recommended LRE Water as the contractor. This recommendation was approved by the LPSNRD Board of Directors and the contract with LRE Water was executed in June 2022. LRE began work on the project and accomplished the following main items:

- Obtaining and reviewing available geologic logs from wells, test holes, etc.
- Building geologic database
- Preparing cross section transects
- Spatial analyses of hydrogeologic datasets
- Data processing for Leapfrog visualization model
- Beginning reinversion of additional data
- Ongoing communication with LPSNRD staff and Board regarding project progress

As of mid-March 2023, LRE has submitted eight invoices for a total of \$127,013.53 and LPSNRD has paid all of these. LPSNRD has not yet requested any reimbursement but anticipates its first request in April 2023.

### ANTICIPATED ACTIVITIES FROM NOW UNTIL END OF PROJECT DECEMBER 31, 2023:

The project is on schedule as of this report. Anticipated activities between now and the project end on December 31, 2023 include the following main items:

- Complete reinversion of additional 2009 AEM survey data
- Complete geospatial analysis for hydrogeologic assessment report.
- Provide data conversions and data standardization of products produced so that data can be uploaded to the Nebraska GeoCloud
- Complete development of 3-Dimensional Framework and provide Leapfrog viewer
- Complete hydrogeologic assessment report and provide mapping files and products
- Provide recommendations for further work
- Provide information and training to LPSNRD staff and Board regarding use of the products as well as general information

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

As noted above, to date LPSNRD has paid LRE \$127,013.53; the initial reimbursement request from LPSNRD is anticipated to be 60% of this amount or about \$76,208.12 and is intended to be submitted in the next few weeks. The remainder of the work as outlined above will be completed over the next several months, and LPSNRD will pay LRE for the work completed and request reimbursement on no more than a quarterly basis.

### LIKELIHOOD THAT BENEFITS PROJECTED IN APPLICATION 5311 WILL BE REALIZED:

Based LPSNRD's general schedule for the project as well as items accomplished by LRE to date, the project is on target for achieving the benefits as described in the application.