



## LOWER PLATTE SOUTH natural resources district

3125 Portia Street | P.O. Box 83581 • Lincoln, Nebraska 68501-3581  
P: 402.476.2729 • F: 402.476.6454 | www.lpsnrd.org

Agenda Item #8

### Memorandum

**Date:** April 12, 2022  
**To:** Each Director  
**From:** Paul D. Zillig, General Manager  
**RE:** Water Resources Subcommittee Meeting Minutes.

The Water Resources Subcommittee met at 5:30pm on Monday, April 11, 2022 in the NRD. Subcommittee Conference Room. Subcommittee members participating included Susan Seacrest, Larry Ruth, Bruce Johnson, Ken Vogel, and Gary Hellerich. Others participating included Deborah Eagan, Don Jacobson, Chris Witthuhn, Maclane Scott, David Potter, Tracy Zayac, Dick Ehrman, and myself.

Chair Seacrest opened the meeting and welcomed those in attendance. Jacobson expressed his support for the Subcommittee's future work on utilizing the AEM data and improving our understanding of groundwater recharge. Ehrman added that ENWRA and the District were awarded Water Sustainability Fund grants to help fund this work.

The first item on the agenda was an update by Ruth on the review of the groundwater rules & regulations. He reported that they have had a couple of meetings with NRD Legal Counsel to identify potential improvements. Ruth noted the difference between "applying" regulations and "drafting" regulations, identifying any major issues, and that there will be some speculative issues, some mechanical requirements, and some required by State Law. We will continue to work on some potential modifications.

The next item was to discuss the Village of Davey's request for additional assistance to decommission one of their Village wells. In attendance from Davey was James Kaiser, Village Board Chair, and Greg Bouc, Village Water Operator. Scott reviewed the attached memo, Bouc further reported on their wells and concern with nitrates. Bouc discussed their interest in taking additional steps to further protect the lower aquifer. The Subcommittee discussed their situation and reviewed some well decommissioning basics.

It was moved by Vogel, seconded by Ruth, and unanimously approved by the Subcommittee to **recommend the Board of Directors authorize the Village of Davey to be reimbursed for 100% of the cost of a standard well decommissioning, and in addition reimburse the Village for 50% of the difference in cost between a standard decommissioning and an "advanced well decommissioning" at an estimated cost of \$7,975.**

The next item on the agenda was a report by Witthuhn on the States requirement that each NRD submit groundwater data that is compatible with the Nebraska Department of

Environment & Energy's groundwater clearinghouse. Witthuhn reviewed our database and the work needed to be done. Phoenix Web Group from Waverly has been our groundwater database consultant and we negotiated the attached proposal to do the required work.

It was moved by Vogel, seconded by Hellerich, and unanimously approved by the Subcommittee to recommend the Board of Directors approve the proposed professional services agreement for the Nebraska Groundwater Clearinghouse Electronic Data Delivery Export project with Phoenix Web Group in the amount not to exceed \$17,732.

Staff updated the Subcommittee on the upcoming reports on the Ashland and Raymond Nitrate Verification Reports and the City of Plattsmouth's plans to connect to the MUD for future City water supplies.

There being no additional business the meeting adjourned at 6:40 pm.

PDZ/pz

cc: Steve Seglin & Corey Wasserburger

# VILLAGE OF DAVEY

P.O. BOX 1

DAVEY, NE 68336

402-785-5351

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**James E. Kaiser**  
Chairman

**Pamela Huck**  
Clerk

**Diane Ahlstrand**  
Treasurer

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March 15, 2022

RE: Decommissioning Well

Maclane Scott  
Water Resources Technician  
LPSNRD

The Village of Davey has one well which needs to be decommissioned as it is no longer in use, and needs advanced well decommissioning of it. The Village of Davey requests that the LPSNRD provide additional assistance with the cost of advanced decommissioning beyond your normal cost share.

Respectfully,



James E. Kaiser

CC: Greg Bouc  
Bryce Anderson

**This Institution is an Equal Opportunity Provider and Employer.**



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### MEMO

TO: Water Resources Subcommittee  
RE: Davey Well Decommissioning  
FROM: Maclane Scott, Water Resources Technician  
Date: April 5, 2022

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- Davey has requested financial assistance with the decommissioning of a water well in their current municipal well field. The well is located within the Davey Community Water System Protection Area. Well decommissioning cost share within a CWSPA is 100%
- Davey has chosen to have AWS Well Company perform an “advanced well decommissioning” with the intention of decreasing the chance of nitrates leaching into their newer municipal wells. This method of decommissioning comes with a higher cost as it involves pressure grouting the annular space of the well below ground and requires specialized equipment. A traditional decommissioning would be around \$2500 and an advanced decommissioning will cost \$14,000.
- Davey is currently in a Phase II management area due to high nitrates.

**STAFF RECOMMENDED MOTION: The Water Resources Subcommittee recommends that the Board of Directors authorize the Village of Davey to be reimbursed for 100% of the cost of a standard well decommissioning, and in addition reimburse the Village for 50% of the difference in cost between a standard decommissioning and an “advanced well decommissioning.”**







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## Memorandum

Date: April 5, 2022  
To: Water Resources Subcommittee  
From: Chris Witthuhn, Water Resources Conservationist  
Subject: Professional Services Contract for Groundwater Database

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The LPSNRD Water Resources Staff has contacted Phoenix Web Group (PWG) to modify the existing SQL database to be able to meet the statutory requirements for the Nebraska Groundwater Clearinghouse.

Phoenix web Group had previously built a tool for the LPSNRD to submit groundwater data to the Clearinghouse. NDEE has, over the past two years, been making significant changes to their Electronic Data Delivery (EDD) format, and recently rolled out a new system for data uploads. The previous tool that was built is not sufficient for the new format, and groundwater staff has been working with NDEE, and our contract lab, Midwest Labs, to gather the information necessary to meet our statutory requirements. Staff is unable to create the necessary SQL tables and queries. The changes are as follows;

- Create three new database tables and map the data entry pages to them using NRD data.
- Create and populate new data fields through queries as required for export for a given year.
- Create a new CSV export to allow NRD staff to upload sample data directly to the Nebraska Clearinghouse database.
- Create an alert for missing water quality sample data

The District received a Scope of Work from PWG on March 28<sup>th</sup>, 2022 (Attachment 1).

**Staff recommends that the LPSNRD Water Resources Subcommittee recommend Board approval for the professional services contract for the Water Resources database improvements through Phoenix Web Group, in the amount not to exceed \$16,120.**

Enclosures



**LOWER PLATTE SOUTH**  
natural resources district

## **Lower Platte South NRD**

### **Nebraska Clearinghouse EDD Export**

March 28, 2022

**Neil Johnson**

CEO

njohnson@phoenixwebgroup.com

(w) 402.786.5111

## **Overview & Purpose**

The Lower Platte South NRD has requested the addition of an export to their existing groundwater data management site to facilitate reporting to the recently-introduced Nebraska Clearinghouse Electronic Data Delivery service.

The challenges in reporting mainly lie in the disparity between the format expected by the clearinghouse and the format of the data exported by the lab. This solution is to act as a mediator between the two, allowing lab-exported data to be easily converted to the EDD's expected format.

This document provides pricing for PWG to work with the LPSNRD to accomplish these goals.

## **Agreement Terms**

By accepting this agreement, the customer will receive the following benefits in addition to deliverables enumerated within the Project Modules section.

### **Bug-Free Guarantee**

Software bugs, discovered within 30 days following completion of the project, as confirmed by PWG, will be covered in full by this quote and fixed or corrected.

### **You Own the Code**

PWG does not retain ownership of the solution developed for the customer. The customer is free to request a current copy of the source code at any time, and free to use it as they see fit. This is covered in greater detail in the Software Development Agreement.

### **Continuing Support**

When the solution has been deployed, the customer will be presented with options for continuing support of the product. In addition to continuing bug fixes, support plan options may include small changes, technical support, server monitoring/maintenance, and periodic reporting on key activities.

### **Change Requests**

Changes to the scope, value, or deliverables in this agreement will be managed with a formal change request, to be signed off by both the customer and PWG. Either party may initiate a request.

## **Major Project Components**

### **Lab-to-Clearinghouse Mapping Pages**

Three data-entry pages are to be implemented with new database tables behind them. These pages will allow NRD personnel to manage which lab names correlate with relevant clearinghouse codes and IDs. The specific functions of these three pages are:



- Mapping lab analyte names to their respective clearinghouse codes
- Mapping lab method names to their respective clearinghouse codes
- Mapping unit labels (as exported by labs) to unit labels (expected by the clearinghouse import)

On project deployment, the database tables for these are to be pre-filled with data supplied by the Lower Platte South NRD.

## Clearinghouse Export

A new CSV export is to be added to the site to allow quick extraction of sample data for a selected year. This will allow the LPSNRD to directly upload sample data to the Nebraska Clearinghouse database. The following details outline the specifics of this report and its generation:

- The export will utilize the sample Result to determine the Result Detection Condition
- The export will use the sample ID to identify and report field duplicates
- The export will use the three added tables to populate fields for:
  - Analyte/CAS #
  - Units
  - Analytical Method ID System
- The export will populate the following fields from wells or clearinghouse data linked to wells:
  - Clearinghouse # from Clearinghouse record field "ClearinghouseNumber"
  - DNR Well ID from Well ID
  - Alias from Well Ref
- The export will populate the following fields using sample data without alteration
  - Sample Date from existing Sample Date field
  - Sample Time from newly-added field
  - Sample Name from Sample Code
  - Concentration from Result

In the event that an alias does not exist for an analyte, method, or units, the user will be alerted as to which records were excluded so that one can be added if desired.

The existing Quality Sample Data import is to be adjusted to accommodate for the addition of sample time

## Project Timeline

The Project Manager will work with the customer to establish realistic expectations of project deadlines that meet customer needs. The estimated time to completion for this project is two to three weeks from initial payment.

## Pricing

**Total for Project – \$16,120 +/- 10%**

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### Payment Terms

An initial deposit of 50% will be due at signing. 50% of the amount will be invoiced upon code completion, when the project is turned over for final review. Following a review of the project upon completion, the amount invoiced may be adjusted +/- 10% of the project's base price.

### Sample Fee Schedule

Beginning of Project – \$8,060

Code Completion – \$8,060

## Phoenix Web Group

We're a group of engineering-minded individuals from all walks of life, brought together by our passion for creative problem solving. The inner math-and-puzzle-loving geek within each of us thrives on developing innovative solutions to tackle your toughest challenges. We feel fortunate that we can honestly say we love what we do, and it's what we'd be doing for fun anyway.

Beginning in 1987, when we made our start in the Equities and Agriculture verticals, we've expanded PWG to broad-range of industries including Commodities, Finance, Transportation, Telecommunications, Retail, Education, and more. Clients from the smallest start-ups to the largest Fortune 500 companies rely on our solutions to simplify their tasks and give them an edge on igniting their potential.

## Notes

Work will begin upon receipt of first payment. Payment is due upon receipt of invoice; past due invoices will trigger the halt of work and are subject to interest.

The customer is responsible for paying applicable taxes in addition to the prices above.

**This quote will expire after a time period of 30 days from the date printed on the cover sheet.**