

Nebraska Ground Water Monitoring Council

Meeting Notes

April 13, 2021

Dave Miesbach (NDEE)

- New building for the agency
- Clearinghouse revised/updated website to go live on April 30th

Dick Ehrman (LPSNRD)

- Establish Phase areas in WHPAs – Ashland (with LPNNRD) and Raymond
- Completed studies in Greenwood, Emerald and Phase 3 in Pleasantale
- Probably move Greenwood into Phase 2 nitrate management area within next year
- Working with Waverly on drinking water protection plan – result in Phase 2 management area
- Monolith carbon black plant in Hallam
 - Estimated water use of 320-400 million gallons per year
 - Helping Monolith with water well permit application
 - Ground water modeling is being done

Colleen Steele (UNL)

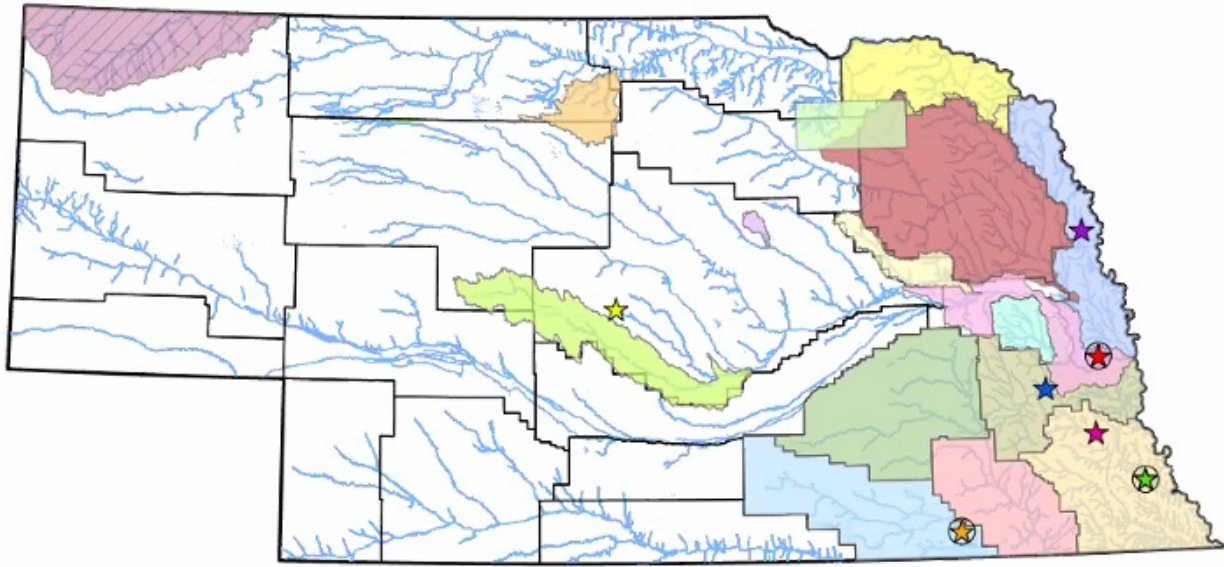
Quality-Assessed Agrichemical Contaminant Database for Nebraska Ground Water Status 4-13-2020

- A new platform for the clearinghouse is in the user acceptance-testing phase. One phase is complete and the next phase will begin soon.
- In the legacy database, we have over 510,000 analytical results representing over 29,000 wells. About 139,000 of these results are nitrate results.
- We have held back on requesting 2020 analytical results from collaborating agencies, as the submitting agencies will be submitting results using the new clearinghouse utility when it is ready.
- Results have been received from the Department of Agriculture for ELISA (Enzyme-linked immunosorbent assay) for 2009-2020. These results will be added to the new clearinghouse platform.

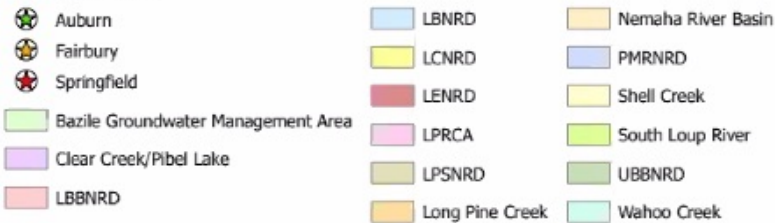
Ryan Chapman and Tatiana Davila (NDEE)

- 319 Management Plans (see map)
- Drinking water specific WHPA plans
 - Nemaha plan approved
- Working with EPA to streamline drinking water protection management plans
- Source water grants across state to address mostly nitrate problems in ground water – Creighton, Wahoo, Waverly, David City, Plainview, Broken Bow
- Communities develop drinking water plan under source water grant then eligible for 319 funds after EPA approval
- Working with UNL Extension to purchase high boy cover-crop seeder/split nitrate applicator to be located in Mead for use for cover crop demonstrations to area within 2-hour radius of Mead (possibly purchase this year)
- Source Water Protection grant webinar - May 5th – tinyurl.com/5uhchex4

NDEE Nonpoint Source Pollution Management Plans



Active Plans



Planning in Progress



★ = Drinking Water Protection Management Plans

Source: NDEE, April 2021

Ginny McGuire (USGS)

- Ongoing water quality projects with City of Lincoln and Papio-Missouri NRD
- Drainage project for Offutt AFB assessing flood by water level and surface water monitoring
- Ground water flow modeling for CPNRD

Karen Griffin (Olsson)

- Updating ground water management plan for CPNRD using COHYST looking at climate change and reviewing triggers/controls
- Begin the same thing for TPNRD starting in July

Katie Cameron (ENWRA - LPSNRD)

- PMR and Nemaha NRDs flew new AEM flight lines in 2020, reports out, working on shape file of flight lines
- Nebraska GeoCloud – updated in 2020, updated metals (Se, As, Hg, U, Ag, Mn)
- Spring technical meeting set for May

FYI: Continuous nitrate data at the USGS Bazile Creek site near Niobrara:

https://waterdata.usgs.gov/ne/nwis/uv?&site_no=06466500