## A person wearing glasses smiling Description automatically generatedcarrie ridley, pg Projecst Director/Geologist

### **Education**

MS Geology - Kansas State University BS Geology - St. Lawrence University

### **Professional License and Certification**

Professional Geologist Kansas License #658

40-Hr Hazwoper Certification

### **Professional Affiliations**

Chair-Elect 2023-present Kansas State University Geology Advisory Council Manhattan, KS

Member 2006-2023 Kansas State University Geology Advisory Council Manhattan, KS

Team Leader 2022, National Managed Aquifer Recover Team, Interstate Technology Regulatory Council, Washington, DC

Member 2019-2022, Oil and Gas Advisory Committee, Kansas Corporation Commission

Secretary 2013-2015, Topeka Sustainability Advisory Board, Topeka, KS

### **Professional Experience**

Ms. Ridley has over 20 years of professional experience and is a member of SCS Engineers’ Carbon Sequestration and Deep Well Injection team. She has worked in geotechnical engineering, RCRA regulation and project management, hydrocarbon salt storage, all classes of underground injection control wells and environmental and energy project management for DOE funded projects. Since joining SCS in 2023 she has worked on multiple deep well projects and various CO2 feasibility studies.

SCS Project Experience

**Private Landfill, Oklahoma.** Carrie serves as project manager for negotiating state and local regulations during feasibility study for a commercial Class I Non-Hazardous UIC well. Evaluate local geological conditions for injection suitability. Prepare estimates for Class I well construction and permitting. Reviewed Environmental Justice data as part of the proposed injection well, accessing the data from USEPA EnviroScreen.

**Carbon Sequestration feasibility study, Louisiana.** Ms. Ridley served as project manager for the preliminary feasibility study of a carbon sequestration hub. Designing tasks, maintaining budget, and creating the final deliverables for CPE costs, project development timelines, preliminary environmental justice screening and future project steps.

**Bio-oil regulatory support, California and Kansas.** Ms. Ridley serves as project manager for a client who is working within the bio-oil and carbon capture space. Provides advisory role for carbon removal options within the subsurface and regulatory support.

Academic Experience

Research Project Manager: June 2022-August 2023, Energy Research Section, Kansas Geological Survey, University of Kansas

Industry Experience

Professional Geologist Supervisor: May 2019-June 2022, Geology Section Chief, Bureau of Water, Kansas Department of Health and Environment, Topeka, KS

Professional Geologist: April 2018-May 2019, Underground Injection Control Program Manager, Geology Section, Bureau of Water, Kansas Department of Health and Environment, Topeka, KS

Environmental Scientist III: October 2012-April 2018, RCRA Project Manager, Bureau of Waste Management, Kansas Department of Health and Environment, Topeka, KS

DOE Projects

Department of Energy Award Number: DE-FE0032056: Carbon Ore, Rare Earth, and Critical Minerals (CORE-CM); Critical Minerals in the Coaly Strata of the Cherokee-Forest City Basin.

Department of Energy Award Number: DE-FE0031837: Carbon Utilization and Storage Partnership (CUSP) of the Western United States

Department of Energy sub-Award by: Carbon Utilization and Storage Partnership (CUSP): PI-Kansas Focused Project ONEOK-Midstream Operator Storage of CO2

Publications

Newell, K D., Peterie S., Killion, M., DeArmond, B., Ridley, C., Mandel, R., Buchanan, R., 2020, *Diminishing Depth to Water in Cambrian-Ordovician Arbuckle Group Disposal Wells in Kansas*: Midcontinent Geoscience, v.1 p. 1-29.

Denesha, C.V., Hubbard, M.S., and Oviatt, C.G., 2001, *Tertiary faulting and its relation to basin architecture in the upper Arkansas Basin, northern Rio Grande Rift*, GSA Abstracts with Programs, v. 33, no. 6, p. A-391.

Invited Speaking Engagements

How Does it Work? Carbon Sequestration Presentation and Panel Discussion, Air and Waste Management Association Annual Conference, Calgary, CAN, June 2024

Round table discussion-Pore Space Occupancy Considerations for UIC and other Wells, Groundwater Protection Council Policy Meeting, Washington, DC, January 2023

Emerging Issues, Kansas Governor’s Water Conference, Kansas Water Office, Manhattan, KS, November 2022

Managed Aquifer Recovery Project update, Interstate Technology Regulatory Council Board Meeting, remote/Washington, DC; June 2022

Managed Aquifer Recovery Scoping Session, Interstate Technology Regulatory Council Spring Meeting, Salt Lake City, UT; March 2022

Geology and Industry Guest Lecturer, Westminster College, Fulton, MO, April 2022

Regulatory updates and Kansas Stratigraphy review, Kansas Groundwater Association Annual Convention, Andover, KS, January 2022

Aquifer Storage and Recover/Managed Aquifer Recharge, 2020 Underground Injection Control Conference, Groundwater Protection Council, San Antonio, TX, February 2020

Awarded Grants

**National Environmental Information Exchange Network Grant;** EPA-OMS-21-01, Kansas Department of Health and Environment-Division of Environment; Data development and data transfer project, 2021. $200,000. Role: Primary Investigator.