

## THOMAS H. BIRREN PHD

### Education

BA – Geology, Carleton College, Northfield, MN, 2013

PhD – Geology, Iowa State University, Ames, IA, 2021



### Specialty Certifications

40-Hour HAZWOPER Training

### Professional Experience

Since joining SCS, Dr. Thomas Birren has prepared compliance monitoring reports, permitting documents, proposals, and other as-needed required documentation. As a specialist in groundwater monitoring, Dr. Birren is involved in small to mid-scale projects, which include coordination efforts with clients, field technicians, and subcontractors.

Dr. Birren has a background in geodynamics, including rock deformation and fracture as well as fluid/rock interaction. As a doctoral student at the Geological and Atmospheric Sciences Department of Iowa State University, Dr. Birren developed physical modelling techniques to study slow-earthquake phenomena and fracture dynamics. His experience also includes mineral exploration work using field mapping and sampling techniques. As a geologist, he served as a geologic mapper, core logger, and soil sampler. He is proficient in programs such as AutoCAD, ArcGIS, MATLAB, and Microsoft Suite.

Dr. Birren's notable project experience is summarized below:

**Quarterly and Semiannual Groundwater Monitoring Reports.** Dr. Birren has assisted in the preparation of numerous routine monitoring reports for various sites, overseeing various regulatory agencies. His experience compiling reports includes, preparing report text, tables, and figures including drafting ground water and leachate contour maps. Facilities include various CA landfills and manufacturing sites, including, but not limited to:

**Nu-Way Live Oak Landfill in Irwindale, CA**

**Oyster Bay Regional Park in South San Francisco, CA**

**Scholl Canyon (Inactive) in Glendale, CA**

**West Winton Landfill in Hayward, CA**

**Field Experience.** Dr. Birren conducts indoor air quality monitoring, soil vapor sampling, and construction quality assurance for drilling on landfills.