

# Alexandra Mandybur

*Staff Hydrogeologist, Level 1*

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Ms. Mandybur has been with JSAI since August 2021. Her work includes field data collection, database organization and management, data analysis, report preparation, and visual representation of data with diagrams, maps, cross-sections, and more. Ms. Mandybur has field experience with groundwater, surface water, and soil monitoring/sampling, as well as performing aquifer pumping tests and providing oversight for environmental cleanup and well construction projects.

## ***Water-Resource Database Development:***

Development, organization, and maintenance of spreadsheets relating to well information, laboratory analysis results, and field data across various projects.

## ***Visual Representations of Data:***

Digital and manual creation of graphs, maps, tables, cross-sections, charts, and diagrams to clearly and effectively display data.

## ***Hydrogeologic Field Services:***

Operation of monitoring equipment including well sounders, transducers, pygmy meters, and water quality meters to collect field data from groundwater and surface water. Sample collection of water for drinking water standards, PFAS contamination and hydrocarbon contamination analysis, and general chemistry analysis. Assisted in planning, data collection, and data analysis of constant-rate pumping tests.

## ***Environmental Field Services:***

Use of photoionization detectors (PIDs) and lithologic logging to constrain zones of contamination in the field, as well as collection of contaminated soil and water samples for laboratory analysis. Oversight of geoprobe borehole investigations and dig-and-haul excavations at fuel supply sites. Fulfillment of ongoing quarterly monitoring and sampling requirements at sites undergoing reclamation.

## ***Well Construction Oversight:***

On-site supervision during the installation of monitoring wells and water supply wells. Use of field observations from lithology logging to aid in well construction. Maintain detailed records of well materials and construction methodologies during drilling, completion, and development.

## ***Software Experience:***

Microsoft Office Suite, Google Workspace, Adobe Acrobat, Adobe Illustrator, ArcGIS Pro, Arc GIS online, Win-Situ 5, Solinst Levelogger 4.4.0.

## EDUCATION

B.S. Geology, 2021

Environmental Concentration  
University of Illinois at Urbana-  
Champaign

## REGISTRATIONS

OSHA Hazardous Waste  
Operations and Emergency  
Response (HAZWOPER)  
certification

American Red Cross Adult and  
Pediatric First Aid/CPR/AED