

Rocio Mancillas
Staff Hydrogeologist, Level 1
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Ms. Mancillas has been with JSAI since June 2021. She has a range of experience from environmental work, hydrogeology, geology, and geophysics. Her expertise continues to expand into monitoring, sampling, data collection and interpretation, well oversight, maintaining databases for aquifers, and environmental clean-up. Ms. Mancillas has experience sampling soil, groundwater, and surface water. In addition to her passion for geology, she is bilingual (Spanish and English) and conversational German.

Water-Supply Well Project:

Management of water supply well projects (as technical support for Principal Hydrogeologist), including management of well drilling, completion, development, and test pumping. Evaluation of pumping test data and development of pumping schedules for water supply wells. 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.

Water-Resource Development:

Oversees observation wells, drilling, construction from threaded coupled, weld collars, dielectric coupling, and plugging and abandonment of water wells. Performing and collecting different test for groundwater flow to wells. Jetting, step drawdown pumping test, constant-rate pumping test, dummy tool test, and creating visual representation of data across multiple software platforms.

Water-Resource Database Development:

Gathering field parameters for water quality for groundwater and surface water. Data plotting for analysis and comparison with laboratory analysis result.

Water Rights:

Aiding with water right declarations to the New Mexico area, evaluating and providing technical assistance for hydrogeologic studies, calculations of drawdown, and stream flow monitoring.

Hydrogeologic Field Services:

Geologic mapping and field reconnaissance including sampling groundwater and surface water, performing aquifer pumping tests, overseeing water-supply well drilling projects, and logging lithologies. Operating field equipment including well sounders, transducers, and field water-quality meters.

Environmental Field Services:

Collecting and compiling data, including sampling and collecting water and soil samples at various sites contaminated with petroleum hydrocarbons for laboratory analysis for proper remediation.

Relevant Trainings

Water Treatment Specialist: development plan for water purification equipment distribution and operation. DNA Extraction & Coding: development of purple sulfuric bacteria specific to clean up hydrocarbon residue. Syscal Resistivity Meter: geophysical medium depth exploration for data collection.
Remote Sensing: data collection and analysis from reflected radiation at different distances.

Software Experience:

Microsoft Office Suite, Adobe Illustrator, and ArcGIS software Google Workspace, Adobe Acrobat, Win-Situ 5, Solinst Levellogger 4.4.0.

EDUCATION

B.S., Geological Sciences, 2018
University of Texas at El Paso
Minor: Chemistry

A.S., Biological Sciences, 2015
El Paso Community College

REGISTRATIONS

MSHA 46

OSHA 29

CRF 1910.120