



MATRIX **NEW**WORLD

Engineering Progress

Water System Engineering Services

Matrix engineers water.

Wells. Matrix New World Engineering (Matrix) professional engineers, registered geologists, and hydrogeologists have extensive experience in the siting, permitting, drilling, installation and testing of all types of wells ranging from monitor wells to high capacity municipal and irrigation wells. These projects can require well siting studies and preparation of detailed technical drilling and testing specifications for implementation by the drilling contractor. In the field, Matrix uses a variety of surface and downhole geophysical techniques to aid in the location and design of production wells.

Groundwater Treatment Systems Design/Build. In situations calling for remediation of groundwater contamination, Matrix's team of professionals can design/build groundwater pump and treat systems from the ground up, with expertise in soil vapor extraction, air stripping, liquid and vapor phase carbon, ion exchange, and filtration. System designs provide for capture and control, and include civil and electrical installation associated with sizing and developing of the equipment, piping, instrumentation, and system controls.

Water Storage, Treatment, and Distribution Systems. Whether it is clean water destined for potable use, or treated groundwater reinjected to the local aquifer or used in a green remediation initiative (golf course or municipal park turf irrigation), Matrix hydrogeologists, engineers, and certified water operators can deliver. To maximize system performance and protect public safety, Matrix provides 24-hour on-call services in the event of alarm shutdowns.

Services provided

- Siting, Permitting, Design, Installation, & Testing for Wells: Production, Monitor, Extraction, Injection, Aquifer Storage & Recovery (ASR)
- Preparation of Technical Specifications for Well Drilling and Testing
- Lithologic & Geophysical Logging
- Aquifer Testing & Analysis
- Groundwater Sampling
- Pumping System Design & Installation Oversight
- Wellhead Completions
- Water Storage, Treatment, & Distribution Systems
- Water Distribution Lines – Permitting, Design, Installation
- Certified Water Operators
- 24-hr On-call Emergency Alarm Services
- Groundwater Remediation & Process Engineering Systems: Permitting, Design, Construction Oversight, Operation & Maintenance
- Effluent Reuse / Recharge
- Compliance Monitoring, Sampling, & Reporting

Contact

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Certified WBE/DBE

