

Vidler Water Company, Public Water-Supply Development, Kane Springs, Nevada

Owner:

Vidler Water Company
Greg Bushner, PG
775-885-5000

Client:

Same as above

Location:

Kane Springs, Nevada

Services:

Planning, Permitting, Investigations
Hydrogeologic Assessment
Public-Supply Water Well Design
Construction Management
Deep Well - Water Exploration
Aquifer Testing
High-Tech Borehole Geophysics

Performance Period:

2004-2005

Project Cost:

URS Fees \$150K

Key Personnel:

Greg Bushner, P.G.
Project Manager

Grant Snyder, P.G.
Senior Hydrogeologist

**Project Background**

The Basin and Range Aquifer System of Nevada and Utah in Lincoln County, Nevada is a water-bearing unit comprised of Paleozoic and Mesozoic-age formations. This confined aquifer system occurs in an area that produces high-quality water suitable for public and industrial supply use. Vidler Water Company is in the process of developing this resource for public water supply in an area north of the Las Vegas, Nevada area.

Vidler Water Company requested that URS conduct a hydrogeologic assessment of groundwater resources in the Kane Springs area to evaluate the source water that can be produced for public water supply at a proposed residential land development. Additionally, URS conducted test drilling and geophysical analysis of the aquifer to over 2,700 feet below land surface and determined that the site was suitable for construction of a public water supply development. URS designed and provided construction management of both a production and observation well at the Kane Springs site.

Specific services provided in the investigations were:

- Assessment of groundwater quality and quantity data;
- Identify recharge zone and preliminary delineation of drainage basin;
- Drilling, aquifer testing, and borehole geophysical logging of production well and monitor well;
- Production and monitor wells design, pollution hazard survey, permitting;
- Construction Management.