



# Earth Data

## I N C O R P O R A T E D

### WATER SUPPLY CONSULTING



Earth Data Incorporated has been a leader in the field of Water Supply Development and Resource Evaluation for more than three decades. During this time Earth Data Incorporated has been involved in the exploration and development of water supplies for industrial, municipal, and irrigation use throughout the United States and abroad. These projects have benefited from our commitment to identify and develop the most efficient water supply while providing the highest degree of protection for this valuable resource.

Earth Data Incorporated's professional staff has been involved in the evaluation and development of water supplies in a variety of geologic terrains from upland fractured rock to the unconsolidated Coastal Plain.

Earth Data's hydrogeologists can design and implement a water supply evaluation or development project from beginning to end. This includes all aspects of exploration, testing, construction, and permitting for local and regional supply systems.

#### EXPLORATION & TESTING



Where groundwater exploration services are required, Earth Data Incorporated can provide a full range of investigative resources to identify the most practical and cost effective water supply. Earth Data also possesses the tools and trained professionals to plan and implement a testing program to verify water availability and quality. Some of our exploration and testing services include:

- Fracture Trace Analysis
- Geologic Field Mapping
- Borehole geophysical surveys for groundwater exploration in any geologic terrain
- Well Siting
- Straddle Packer Testing
- Drilling Supervision and Inspection
- Aquifer Testing
- Permitting assistance
- Wellhead Protection Studies

#### GROUNDWATER MODELING



Groundwater flow and contaminant transport models have become an important part of the exploration, impact assessment, and management of groundwater resources.

Earth Data's hydrogeologists utilize state-of-the-art computer simulations of groundwater flow on local and regional scales to:

- Evaluate groundwater availability
- Assess the impact of proposed withdrawals
- Locate and optimize groundwater withdrawals for greatest efficiency
- Evaluate the fate and impact of groundwater contamination

#### WELLHEAD PROTECTION AREA STUDIES

The protection of groundwater resources from contamination is a high priority for water suppliers. In light of the significant cost associated with treatment of a contaminated water supply or the loss of a wellfield, Wellhead Protection Area programs are the most pro-active and cost effective tools for protecting groundwater supplies. Earth Data Incorporated can provide Wellhead Protection Area delineations and resource protection strategies that are consistent with the Safe Drinking Water Act and state Wellhead Protection Programs.

#### PERMITTING ASSISTANCE

Our staff has up-to-date knowledge of existing and proposed regulations and can assist you in all stages of groundwater appropriation permitting and provide liaison with regulatory agencies. Earth Data Incorporated has the experience and technical support to provide you and your client with all the necessary services to evaluate sites, analyze data, and ultimately obtain permits.