



## Environmental Assessment and Remediation

The winning combination of Noblis' state-of-the-art data management and scientific visualization tools combined with our expertise in earth sciences, statistics, and environmental engineering facilitates rapid and effective remediation and site closeout for our clients. Our integrated team of scientists, regulatory analysts, and process engineers work together to estimate the extent and likelihood of environmental hazards. Likewise, our knowledge of pollution prevention techniques and technologies, environmental cost estimates, environmental regulations, industrial processes, and information technologies makes Noblis ideally qualified to help clients make informed decisions about environmental investments and to design and implement environmental management systems, as well as the information systems that carry out these complex designs. Through our experienced staff and technical expertise, we are able to offer our clients innovative and cost-effective approaches to protecting the environment and human health through risk management.

### **Geological Characterization**

Noblis scientists use surface and borehole geophysics, test pitting and soil sampling, groundwater and soil gas profiling, and surface water and groundwater sampling to delineate source areas and resulting contaminant plumes.

### **Environmental Impact Assessment**

Noblis has collected data, prepared analyses, and assisted in the preparation of over 70 Environmental Impact Statements (EISs) and hundred of Environmental Assessments (EAs) in over half the states in the U.S. and Mexico.

### **Soil Treatment**

Our staff members identify and review viable treatments for such contaminants as poly-chlorinated biphenyls (PCBs), dioxins, and furans in soils, and investigate the effectiveness of soil treatment technologies. Our ultimate objective is to identify a technology that is efficient, environmentally acceptable, and cost-effective.

### **Water Resource Treatment and Optimization**

The increasing demand for fresh water in the face of uncertain future supply is rapidly becoming a critical economic, social, and security challenge both in the U.S. and internationally. It is also a problem which

is inadequately addressed by current water management mechanisms.

In the past, Noblis has been involved in water projects at all levels—federal, state, and local. For example, Noblis has supported the U.S. Environmental Protection Agency's rule making efforts related to toxic pollutant effluent limitations as applied to the organonitrogen manufacturing process under the Clean Water Act, and national primary interim drinking water standards under the Safe Drinking Water Act. Noblis developed a more economic approach for monitoring the status of contamination at sites on Edwards Air Force Base in California, which has over 600 monitoring wells in its Installation Restoration Program. Noblis also performed a detailed analysis of future water supply and demand for the Washington, DC, Metropolitan Area which included an assessment of the risk involved in any expanded reliance on the Potomac River for potable water.

### **Landfill Management**

Noblis has provided considerable support to clients in the area of landfill covers, including developing an effective alternative to conventional covers that uses indigenous soils and native grasses rather than artificial barriers and impermeable membranes.

### **Environmental Management**

Domestic and international organizations have ongoing concerns about appropriate ways to properly manage their environmental resources. Environmental managers are often faced with the challenge of making costly remediation decisions. Noblis helps its clients get the greatest value from their environmental dollars by recommending cost-effective approaches that are scientifically sound and comply with regulatory requirements.