

## ***Wastewater Land Application***



*(Photo courtesy of NRCS)*

### **Capabilities**

- Site Suitability Investigations
- Wastewater Land Application System Design & Operation
- Development of Alternative Permitting Approaches
- Permit Application Preparation
- Wastewater Characterization
- Wastewater Treatment System Design & Operation
- Public Relations Support

## Key Projects

### Jerome Cheese Company

- Characterized wastewater generated by plant processes and evaluated treatment alternatives capable of meeting TMDL standards for tributaries to the Snake River and state water quality standards
- Prepared permit application for 920-acre wastewater land application facility
- Designed innovative precision irrigation and nutrient monitoring/dosing systems to address application of wastewater in a complex topographic and geologic environment
- Developed Best Management Practices including nutrient management and control of irrigation runoff to prevent discharges from the site

### Grossman Family Properties

- Prepared permit application for wastewater land application to agricultural and common areas at a proposed residential community
- Analyzed physical/chemical properties of surface soils/shallow groundwater, evapo-transpiration rates, process water budget and impacts to water supply aquifers
- Evaluated wetland hydrology and associated impacts from seasonal irrigation practices
- Ongoing collection and monitoring of hydrologic data for surface water and groundwater management at the site

### Spring Hill LLC

- Performed a comprehensive site assessment to evaluate the site's suitability for slow-rate land application
- Prepared Preliminary Technical Report and permit application documents to request use of a 203-acre site to dispose of 600,000 gpd of highly-treated wastewater from a proposed residential development
- Proposed treatment and monitoring approach to allow irrigation of residential lawns

### EnviroClean

- Prepared permit application for 400-acre wastewater land application facility to recycle wastes from a variety of aquaculture and commercial sources
- Developed and designed waste transfer and storage facilities as part of the Solids Management Plan required by the state environmental regulatory agency
- Negotiated site-specific plans to replace conventional, expensive groundwater monitoring methods with innovative soil monitoring methods

### WestFarm Foods

- Evaluated disposal alternatives for residual solids from the plant's wastewater treatment system including recycle and use as a soil amendment, and slow-rate land application



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