AQUA Engineering Solutions

ENVIRONMENTAL SERVICES

For AQUA, working in the environmental field means action with a focus on designing projects that are self-sustaining and environmentally enhancing. Our list of projects is extensive, including the design of waste to energy projects that produce methane gas from municipal bio-solids, animal wastes, and food processing wastes to generate both heat and power. We permitted Utah's largest landfill north of the Great Salt Lake and designed several composting processes including one using municipal solid waste with wastewater bio-solids. Recently, solar energy has become part of many of our projects. Our LEED certified staff use recycled and energy efficient materials, energy efficient heating and cooling systems, and energy efficient lighting systems in their designs. AQUA helps both the public entity and the private industry in permit compliance, in mitigating violations and fines, and negotiating permits that are fair and balanced.

Featured Projects

Springville Composting Facility

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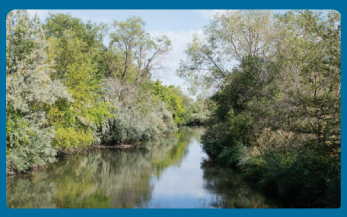
This composting facility started up in the summer of 1999. AQUA Engineering assisted the City by designing the composting pad, staging area, loading ramps, and drainage system. In addition, AQUA Engineering had previously designed the solids dewatering facility. The City uses green waste collected at this site to mix in with their dewatered anaerobic sludge. Windrows are created with front end loaders and are about ten feet tall. Odors from the operation are very minimal which is not uncommon when anaerobic sludge is composted. Green waste is ground up several times a year by a tub grinder that is owned jointly by several southern Utah communities. In addition, the screening is also accomplished using a jointly owned trammel screen.



Jordan River Aeration Study

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Provided engineering services including alternatives analysis, site selection, predesign, pilot testing and design services for the implementation of aeration of the lower Jordan River during periods of low dissolved oxygen content. This was done in coordinate with water quality monitoring, load assignments, organic matter removal and best management practices.