

East River Regional Sanitation District Wastewater Treatment Plant Master Planning



WWE performed wastewater treatment master planning for the East River Regional Sanitation District located near Crested Butte, Colorado, including a detailed collection system and treatment facilities plan. WWE evaluated the capacity of an existing lagoon system and determined eventual wastewater flows. Components of the project included the following:

- Obtaining Preliminary Effluent Limits (PELs) from the CDPHE. The PELs required a very stringent ammonia limit in the treatment plant discharge.
- Design of treatment plant modifications including a new aeration system, disinfection and dechlorination system flow monitoring, solids removal and controls.
- Alternatives for extended aeration, modified lagoon and membrane bioreactor processes. Solids handling was evaluated, including use of centrifuges.
- Anoxic/oxic biological reactors for a mechanical treatment plant.
- The planning included submittals for funding of this project. Later, the district hired WWE to design a mechanically cleaned bar screen to improve efficiency of this 1.3 MGD wastewater lift station.

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