



## WASTE WATER TREATMENT SYSTEM

PENTA is making America greener with many environmentally friendly projects and has been working in a variety of industries completing GREEN projects like waste water treatment, enviro fuels production from waste, wind mills, ash reclaim from coal-fired power plants, and waste heat recovery. PENTA works in many industries and in many geographical regions.

### Case Studies:

- A municipality wanted to relocate a waste water treatment facility located on the banks of a river running near the center of a large city. The land will be converted into a city park and recreational area. To determine the cost to relocate the facility, PENTA created flowsheets of the process and generated an extensive equipment list. PENTA also had to determine piping requirements, electrical control devices and components, size of the building, the length of rail, square feet of pavement, silos, tanks, docks, etc. The existing facility needed to operate while the new site was being constructed; therefore, the new site had to be built utilizing new equipment but replicating the process of the plant to be demolished.



PENTA completed 3D scanning of the entire facility, inside and out. This created a record of the existing facility and helped PENTA to make sure that all pertinent aspects of the facility had been accounted for. At the time of this writing, the new site is in the development stage.

- A client produces 2200 gallons per day waste water stream from an industrial mineral processing facility. The wastewater is currently pumped a considerable distance to a settling pond. The solids are dredged out periodically, which is a messy and expensive operation. PENTA eliminated the need for the settling pond by engineering a system to clarify the water so that it may be discharged to the municipal sewer main. The waste water treatment system was designed to meet the Code of Federal Regulations (CFR), as well as the city and state regulations prior to discharge into the sewage system.



PENTA's projects are planned with the environment in mind. With experience in so many different areas and industries, PENTA can select economical and GREEN solutions for its customers. If you want to learn more about PENTA, [click here](#).