

SOLIDS HANDLING & EFFLUENT REUSE

STATE PROGRAM: New Mexico Environment Department

ASSISTANCE RECIPIENT: Village of Cuba

ASSISTANCE AMOUNT: \$2.1M



PROJECT DESCRIPTION

The Village of Cuba needs facility upgrades to meet their NPDES discharge permit. To meet the requirements of the NPDES permit, the Village will construct a new effluent storage basin, effluent pump station, effluent distribution system, and effluent reuse site. During half of the year, the Village will land apply effluent to alfalfa or other non-food crop fields, managing the allowable nitrogen loading rate. The project also includes the conversion of the existing lagoon system into an aerobic digester for biosolids stabilization and the construction of a new solids handling chemical feed building, drying beds, and a biosolids storage pad. The disposal of the biosolids is a concern for the Village because the nearest landfill that accepts this type of material is 90 miles away. The Village will dry the solids on the new drying beds and then store the biosolids on the new pad until there is sufficient quantity to haul over to the effluent reuse site. The village has a population of 687 with a per capita income of \$16,108. With the land application of the biosolids, the annual savings of \$27,000 makes a big difference. The funding package is over \$2.1 million of which \$404,700 is a loan at zero percent interest and the remainder was funded as a grant.

To read more about this case study, please visit https://www.epa.gov/sites/default/files/2018-11/documents/pisces_2018_compendium_0.pdf.