Central Davis Sewer District -

Benefits of NBP EMS Implementation

Central Davis Sewer District, a regional facility, provides wastewater treatment and collections to the cities of Farmington, Fruit Heights, and Kaysville in Davis County, Utah. The District serves a population of over 45,000 citizens and has a design treatment capacity of 9.9 MGD. The treatment facility includes a split biological system employing both extended aeration activated sludge and attached biological growth reactors. The system produces about 2,000 dry tons per year of biosolids and biosolids derived product. Since the mid 1980's 100% of the systems biosolids have been beneficially reused. Anaerobically digested, dewatered biosolids are land applied to District farm land surrounding the treatment facility, where alfalfa hay and sod are grown and marketed. Aerobically dewatered biosolids are composted with wood waste to produce a final product which is sold directly to the public.

The District has a long history of proactive biosolids management and in 2004 EPA selected the District first place for a National Clean Water Act Recognition Award for Outstanding Biosolids Management - Small Operating Projects.

CDSD Plant and Farm

The District joined the National Biosolids Partnership in 2003, but after significant review determined that the EMS, as presented at training, was too complex for a small agency. In May, 2006 the District received the Small Agency template. Believing this to be a viable approach, Staff modified and populated the template with site specific conditions and standard operating procedures (SPO's). Approximately 100 man-hours later, the EMS was ready for implementation. All SOP's followed current practices and staff training of the EMS Manual was completed in about six classroom hours. A readiness review was conducted in May 2007 and the verification audit was complete in September, 2007. All corrective actions were complete and NBP certification was awarded November 5, 2007.

The District has experienced several benefits from the EMS development and implementation process. The following are the most significant:

1. The EMS manual and associated written SOP's are a significant contribution to the District's operating documents. With retirement of key staff looming in the future, these aid in the continuation of institutional knowledge.

2. The goal setting process enables Staff to manage the process of continual improvement.

3. The Defined public education and communication program have helped Staff maintain focus on assuring public acceptance.