



MUNICIPAL WWTP

IFM Helps National Travel Center Meet EPA Regulations

A national travel center and long-time client of IFM was having trouble with one of their current single-celled lagoon wastewater treatment systems which could not withstand the current influx of raw wastewater. As a result, the exiting water quality was falling short of EPA recommended guidelines. In addition, the facility happened to be landlocked with no easily-accessible discharge point to a body of water. IFM was then asked to come up with a solution which included the designing of a brand new wastewater treatment plant (WWTP).

The new plant's design utilized deep precast concrete equalization and aeration basins, clarifier, dual-cell media filter, and ultraviolet disinfection system. It would have to accommodate raw influent water whose BOD5 could reach upwards of 300 mg/L and total suspended solids (TSS) level of 556 mg/L. The goal effluent discharge for the design was between 6,700 and 10,050 GPD.

The newly designed WWTP was installed over a period of ten days, requiring mass excavation of the site. In addition to the newly-added equipment, IFM renovated

the existing pump station to allow for the increased demand of effluent discharge. Due to the unfortunate position of the facility, over a mile of underground, 2

inch force main pipe was installed to the nearest discharge point of a local creek. This option proved much more appealing than the client's second choice of purchasing a large plot of land on which to discharge effluent.

The resulting fully-automated WWTP has a discharge rate of 10,000 GPD and was capable of bringing BOD5 levels from above 300 mg/L down to as little as 7 mg/L. TSS levels were also greatly reduced from the highest levels of around 556 mg/L to a mere 6 mg/L.

The plant was finished with a surrounding protective fence and a low-maintenance gravel bedding. IFM continues operations at the facility to this day.



Excavation and installation of the new facility



Completed WWTP being put into service

For more information about IFM products and services, please refer to the contact information at the bottom of this page. Project designs and quotes can be readily available for all water and wastewater needs.