Selected Project Experience

Solid Waste Master Planning Study
MARION COUNTY, FLORIDA

This comprehensive planning study completed for the County, one of Florida's largest counties, provided a roadmap for rationally expanding the County's system to serve its residents for the next 20 years. Services included an assessment of alternative waste disposal technologies including WTE; a conceptual study of landfill options in the County, out of county waste disposal, a transfer station operational evaluation, universal waste collection, and preparation of a financial pro forma to assist the County in evaluating future tipping fees as well as debt servicing.

Waste Composition Study
CITY OF PENSACOLA, FLORIDA

Geosyntec Consultants, Inc. prepared this desktop waste composition study for the City of Pensacola to estimate the quantities and composition of the potentially recoverable organic fraction of the City's municipal solid waste (MSW) stream which could potentially be recovered for further processing. The primary purpose of this report is to help inform the City of the quantities and composition of the potentially recoverable organic fraction of the City's residential and industrial waste streams which, if recovered, could be treated at an organics processing facility to produce compost, natural gas, or electricity. Future disposed MSW tonnages were estimated using both historic waste disposal information and projected population growth for the City. Specific waste composition data for the City are not available, although several relevant studies have been performed in the last ten years that provide statistical characterization of waste from communities/facilities in Florida and Alabama and which can serve to derive a "synthetic" waste composition to represent the City's wasteshed.

Transfer Station Cost-Benefit Analysis and Siting
CITY OF LAKELAND, FLORIDA

The City Of Lakeland, FL currently disposes solid waste at the Polk County North Central Landfill. In recent years, traffic delays and unnecessary wear to trucks unloading at the landfill have resulted in service difficulties and cost overruns for residential solid waste collection provided by Lakeland. Continued growth of collection services within Lakeland could potentially worsen the issue in the future. At the Lakeland's request, Geosyntec Consultants, Inc. prepared a cost benefit report to consider the benefits and drawbacks of developing a solid waste transfer station in Lakeland.

A Pro Forma Model (Model) was developed which assumes that the projected operating costs for the station includes processing, transportation to the landfill, and debt service. Geosyntec included potential financial benefits of the proposed station to include avoided vehicle repairs at the landfill, truck purchase deferral, collection system efficiencies (the difference of going directly to the station and then back onto route rather than the turnaround at landfill back onto route), and customer tipping fees (projected station operating costs at the outset) assessed from non-City of Lakeland users (other municipalities and private haulers). It was assumed that the additional collection efficiencies from the station would enable the Solid Waste Division to defer one collection vehicle and driver and maintenance every four years. The Model enabled us to calculate a Base Case and two other financial scenarios showing the projected benefit cost ratios (BCR) over the anticipated 20-year life of the station (Years 1, 10, and 20).

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Franchise Collection and Pandemic Collection Issues
HILLSBOROUGH COUNTY, FLORIDA

To prepare for continued and future service interruptions, the County employed multiple strategies including asking Geosyntec to develop an RFP for an emergency solid waste collection contract to employ independent collection contractors to assist with routes in the event of future collection failures. Geosyntec was charged with developing an emergency RFP under a short timeframe of five days to support the recovery from these unacceptable service conditions. Services included leading the overall strategy, developing a geographic and operational plan, drafting the RFP scope, creating a pricing strategy, identifying and including necessary exhibits, and aligning our efforts with the County's procurement system. The scope of the items that were developed included terms, general obligations of successful bidders, definitions, collection service and equipment specifications, communication, and reporting protocols, among many others.