Pro Forma Analysis

ECS

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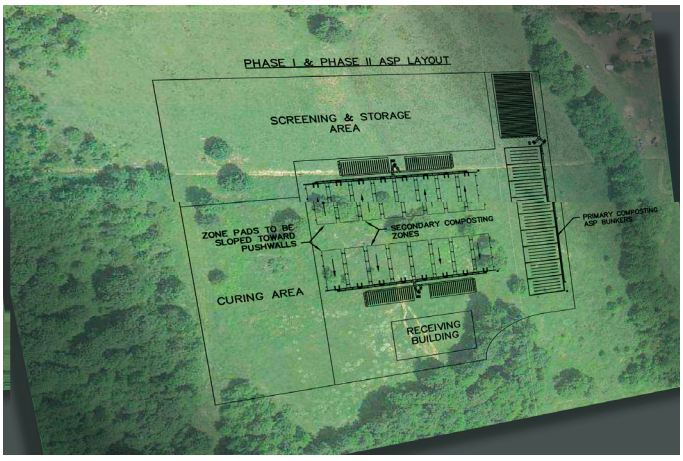
The realities of each composting facility are unique; a site-specific study is the best way to anticipate the implications of developing a new facility, or installing a different processing technology in an existing facility.

This study should overlay the proposed technologies to the operational, commercial, and regulatory conditions at the target facility.

At ECS this study is called **Pro Forma Analysis**. It is a design review report that provides the client with solid data on which to base business decisions on the viability of a proposed facility or facility upgrade.

Following **Pro Forma Analysis** our clients that decide to continue with the development or modification of their compost facility do so with better planning and greater confidence. The clients who find out that owning and operating a compost facility would not have met their goals, are happy to figure this out during the early planning stage.

The **Pro Forma Analysis** tasks vary considerably from one facility to the next. These tasks range from simple facility sizing and construction cost estimation (~20 hours); to much more in-depth facility planning and cost analysis (up to 160 hours).



The tasks carried out are selected, in consultation with the client, from the following list:

1. **Facility Operation Goal Definition**
2. **Feedstock Analysis** (laboratory assays, mix, and mass-balance)
3. **Initial Process Design**
   a. Processing alternatives
   b. Operational description
   c. Material flow diagram (water use, air handling volumes)
   d. Process & instrumentation diagram
   e. Preliminary facility layout – land requirements
   f. Equipment list and specifications (material handling & time-motion)
   g. Staff skill requirements and labor estimations
4. **Environmental Compliance Assessment**
   a. Odors
   b. Air emissions
   c. Surface water
5. **Facility Cost Analysis**
   a. Budgetary capital and financing costs
   b. Operation & maintenance costs
6. **Revenue and Profit Models**
   a. Tip fees
   b. Product sales (market analysis, quality requirements)
   c. Carbon and pollution credits
   d. Sensitivity analysis

- **Facility Design**
- **In-Vessel**
- **ASP**
- **Automated Controls**
- **Client Support**

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