

Evaluation of Conversion Technologies at The Tajiguas Landfill

Presented to the Multi-Jurisdictional
Solid Waste Task Group

October 22, 2007



**Alternative
Resources, Inc.**

ARI Team

ARI: Prime Contractor, Lead Technology Review and Procurement

- Independent consultant, no conflicts, no bias
- Incorporated 1984
- Provide management, engineering, environmental and financial services
- Practice nationally; in addition to Santa Barbara, active in Southern California - LA County, Orange County, San Diego
- Company focus – application of technology to recycle and beneficially use waste materials
- Recognized national expert in conversion technology (CT)
- 2007 facility visits in Europe, Israel, Japan

Clements: Support Technology, Site Review

- Knowledge of CT, solid waste practices Southern California, including Santa Barbara County

Scope of Work

Evaluation Services

Task 1: Refine Project Objectives/Alternatives

Task 2: Finalize Evaluation Criteria

Task 3: Finalize Evaluation of Conversion Technologies

Procurement Services

Task 4: Develop Request for Proposals (RFP)

Task 1: Refine Project Objectives/ Alternatives

Objectives: Evaluate and Expand Upon Existing
Project Goals

- Minimize environmental impacts
- Financial sustainability
- Green energy production
- Humane work environment
- Long-term solution
- Maximize recycling rates

Deliverables: Initial Report – Goals and Objectives

Schedule: Within 1 month (November 2007)

Task 2: Finalize Evaluation Criteria

Objective: Review and Update Evaluation Criteria

- Fiscal viability (20%)
- Demonstrated ability (30%)
- Market issues (15%)
- Health, safety and environmental standards (20%)
- Operational characteristics, technical & mechanical support (10%)
- Intrinsic elements; e.g., electricity, water and air emissions (5%)

Deliverables: Final Evaluation Criteria Report
PowerPoint Presentation

Schedule: Within 2 months (December 2007)

Task 3: Finalize Evaluation of Conversion Technologies

Objective: Identify Conversion Technologies; Gather Information; Screen and Evaluate Technology Suppliers

- Current Short List
 - Arrow Bio (Anaerobic Digestion)
 - Ecocorp (Anaerobic Digestion)
 - Waste Recovery Systems, Inc. (Anaerobic Digestion)
 - Herhof Umwelttechnik GmbH (Mechanical Processing)
 - Genahol, Inc. (Acid Hydrolysis)
- Potential for other technology suppliers

Deliverables: Final Report on Available Conversion Technologies
PowerPoint Presentation of Final Report
Presentation on Contractual Roles & Responsibilities

Schedule: Within 3 months (January 2008)

Task 4: Develop RFP

- Objective:** Prepare RFP to Solicit Proposals from Short Listed Technology Suppliers
- Introduction
 - Proposal Process and Schedule
 - Background Information on the Project and Site
 - Description of Services Required
 - Summary of Acceptable Business Terms and Contract Principles
 - Proposal Evaluation Process, Evaluation Criteria, Schedule
 - Instructions to Proposers (Technical, Price Proposals)
- Deliverables:** Draft and Final RFP
Fact Sheet and PowerPoint Presentation
- Schedule:** Within 6 months after receiving direction to proceed
(Anticipated: September 2008)

Project Schedule

Task	Completion Date
<u>Evaluation Services</u>	
1. Refine Project Objectives/Alternatives	November 2007
2. Finalize Evaluation Criteria	December 2007
3. Finalize Evaluation of Conversion Technologies <ul style="list-style-type: none"> – Complete Evaluation – City/County Review & Consideration 	January 2008 March 2008
<u>Procurement Services</u> ⁽¹⁾	
4. Develop Request for Proposals <ul style="list-style-type: none"> – Draft RFP – City/County Review – Final RFP – Authorization to Release RFP 	June 2008 July 2008 August 2008 September 2008

⁽¹⁾ Within 6 months after receiving direction to proceed