

INTRODUCTION – DESIGN BUILD TEAM



- 4CG CONSTRUCTION, INC
 - www.4cgconstruction.com/
 - General Construction Contractor



4CREEKS

- 4CREEKS, INC.
 - www.4-creeks.com/
 - Licensed Civil Engineers, Land Surveyors, Planners

Comprehensive Permitting Process

PLANNING PERMITS (ENVIRONMENTAL REVIEW)

- Lead Agency County Planning / Zoning Permits / CEQA analysis

SUPPLEMENTAL PERMITS (AFTER PLANNING PERMITS)

- County Building Permits
- San Joaquin Valley Air Pollution Control District (SJVAPCD) Authority to Construct
- Regional Water Quality Control Board – Tier 1 Pond Design Permits / Waste Management Plan Updates

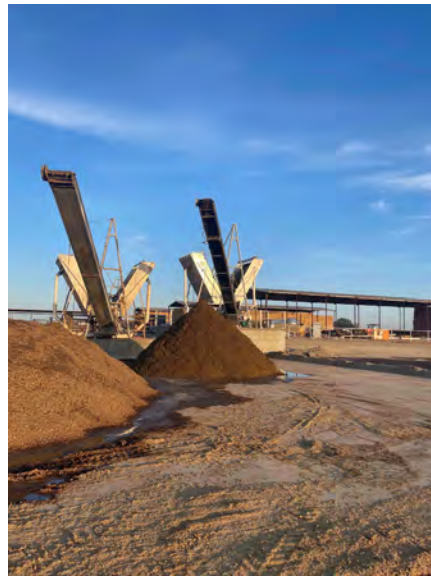
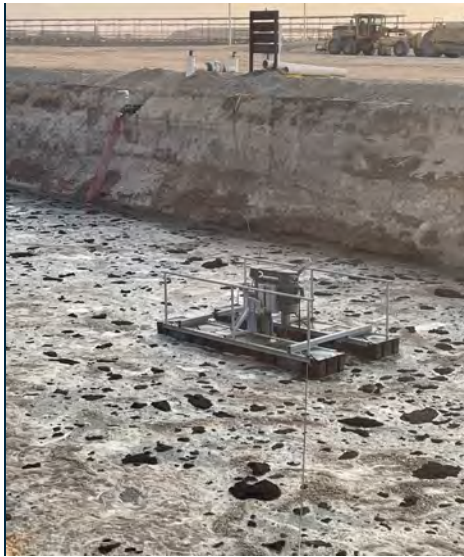
ENCROACHMENT PERMITS (Gathering Line, Upgrader)

- County Right of Way Encroachment Permits
- Department of Fish and Wildlife (DFW) 1602 Lake and Streambed Alteration Permits
- Army Corp of Engineers 404 Permits
- Caltrans Highway Encroachment Permits
- Railroad Crossing Permits



DIGESTER DESIGN:

1. **Understand Baseline Operations**
 - **Varies on Type of Dairy**
 - **Typical Wastewater Operations**
2. **Improvements to Wastewater Management**
 - **Sand Lane, Trash Separation**
 - **Separation of Fibers from waste stream**





Anaerobic Digester Design

Anaerobic Digester Construction



Typ. Sump Construction



Anchor Trench



Sludge Pipe



Baffle Wall



HDPE Liner



Cover Installation

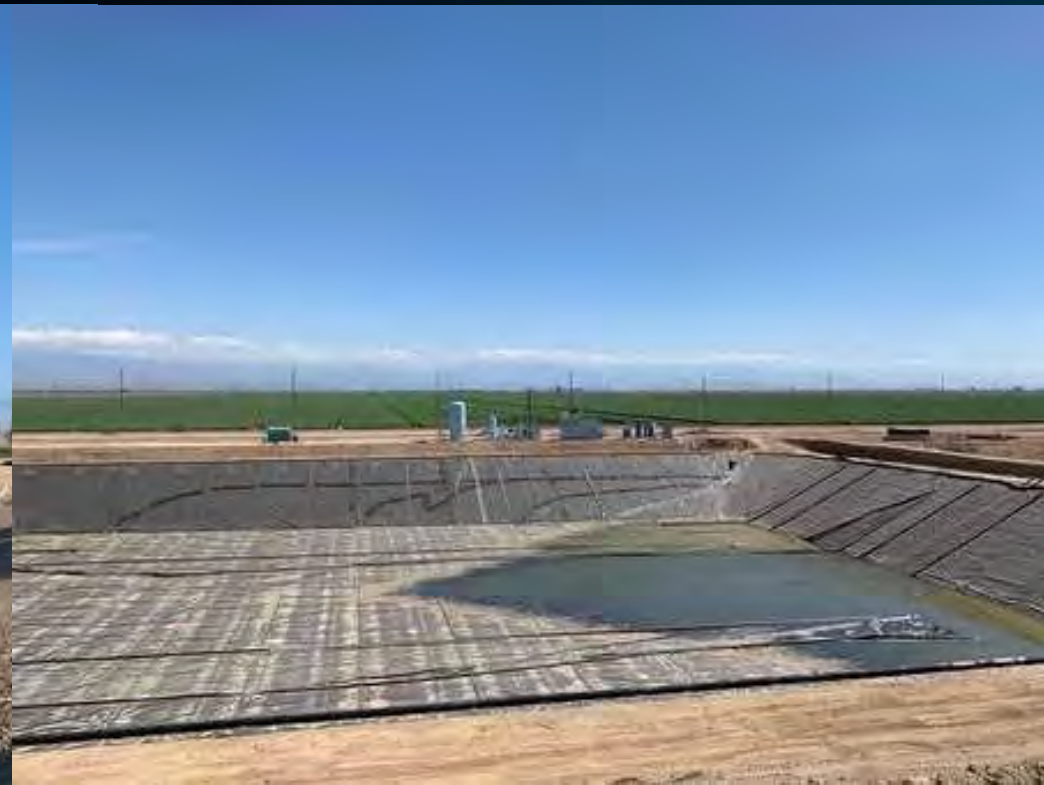


Mixer Access Port



Perforated Pipe for Biogas Collection

Anaerobic Digester Construction



Anaerobic Digester Construction



Completed Cover Design