

FRB Phase VII-A Composite Liner System Construction Management Services Orange, California

Owner:
County of Orange

Clients:
OC Waste &
Recycling and AES

Client Contacts:
Norm Watsek
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Key Personnel:
Paul Buckley, P.E.

Management Cost:
\$150,000

Construction Cost:
\$13.3M

Completion Date:
February 2006



Simplus provided construction management services as a sub-consultant to Advanced Earth Sciences for the \$13.3M Composite Liner Expansion Project at Frank R. Bowerman Landfill for OCWR in Orange County, California.

Construction management services included managing and coordinating the efforts of a general contractor, numerous

subcontractors, OCWR staff, regulatory agencies, design consultants, CQA consultants, the adjacent landowner, and adjacent construction contractors.

The project involved the mass excavation of over 3.9 million cubic yards of material, processing of LCRS gravel and low permeable clay material, construction of a stability fill, installation of over 860,000 s.f. of geotextile and geomembrane liner materials, installation of subdrains, leachate and condensate collection system, drainage facilities, twin 60-inch culverts, headwalls, transition structures, and erosion control devices.

- Twin 60" HDPE Culvert Pipe – 5,890 l.f.
- Onsite Earthwork Excavation – 3,900,000 c.y.
- LCRS Gravel – 45,000 c.y.
- Low Perm Clay Processing – 60,000 c.y.
- Stabilization Fill – 101,000 c.y.
- 80 Mil HDPE Geomembrane – 860,000 s.f.
- 12 & 8 oz. Geotextile – 1,720,000 s.f.
- LCRS Headers & Laterals – 6,630 l.f.
- PCC Trapezoidal Channel – 3,550 l.f.



Simplus