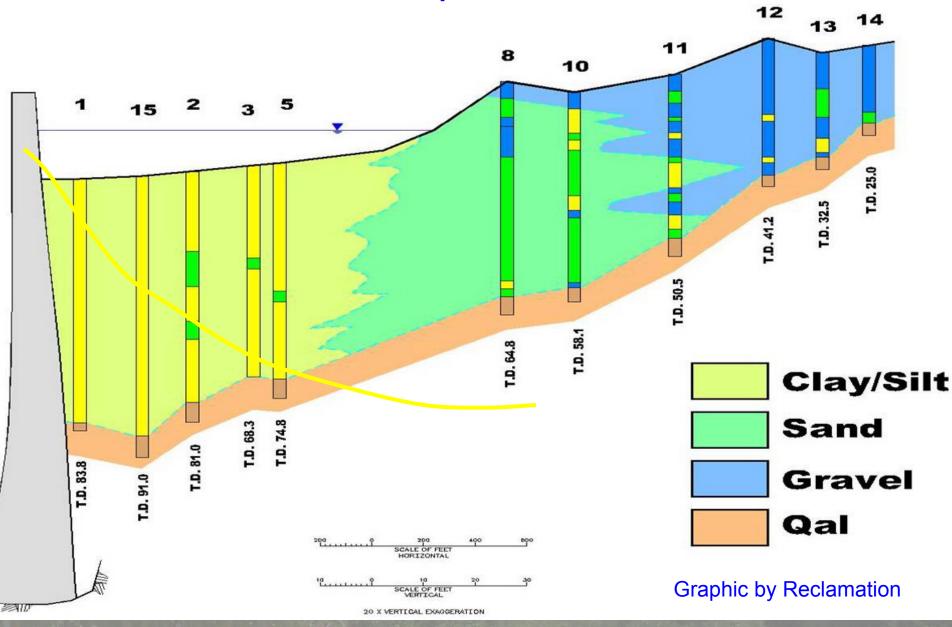
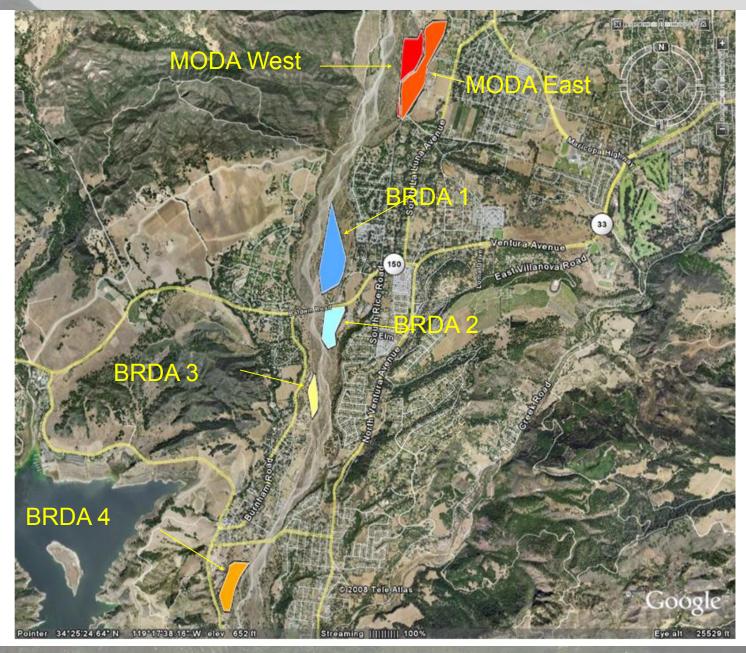


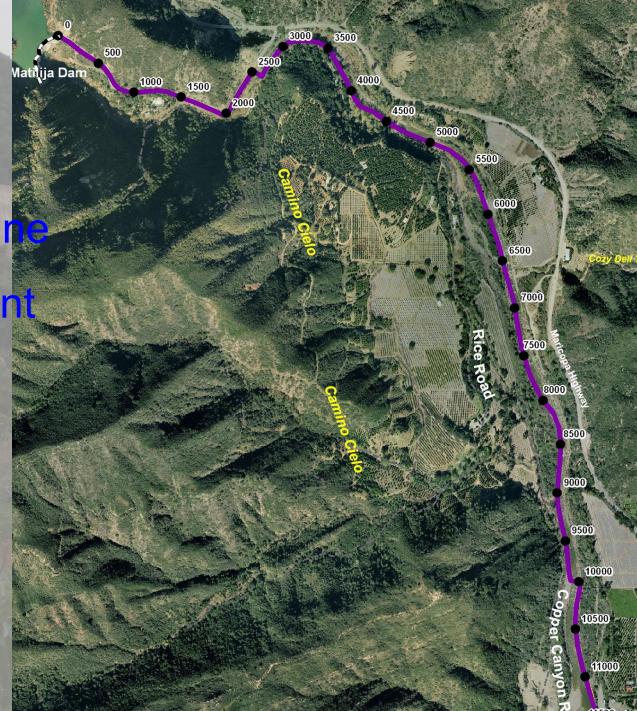
Sediments Upstream of Dam



Slurry Disposal Sites



Slurry Line Alignment





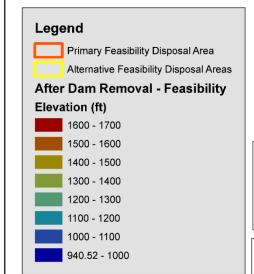


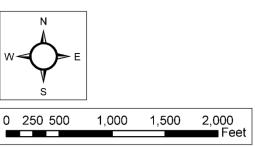
Matilija Dam –

SCALE 1" = BOO'

Reservoir Basin Plan Feasibility Study

Reservoir Basin Plan Feasibility Study





Concerns

- Cost
- Community Resistance
- Constructability

Upstream Storage of Fines

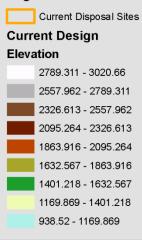
 Can a constructable alternative be developed to permanently sequester the fine sediments upstream of the dam so as to prevent impact to Lake Casitas? If so, what would be the environmental impacts and cost?

Soil Cebe

Drying Area

Usprying AreaUSA 3





w

0

250 500

1,000

1,500

2,000

Feet

Upstream Storage of Fines

2,000 Feet



Primary Feasibility Disposal Area Alternative Feasibility Disposal Areas Current Disposal Sites W

0

250 500

1,000

1,500

Upstream Storage of Fines

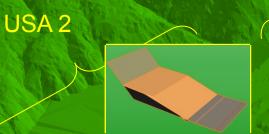
USA1

USA 2

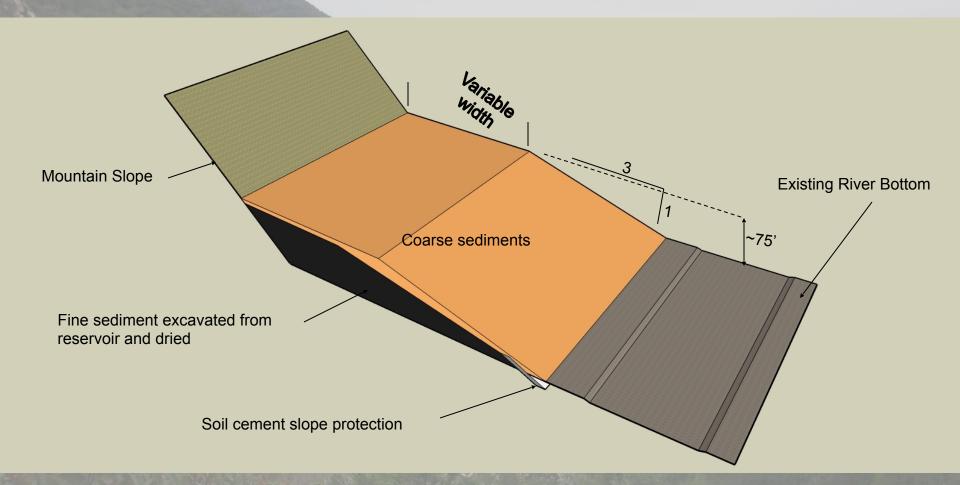
USA 3 (Coarte

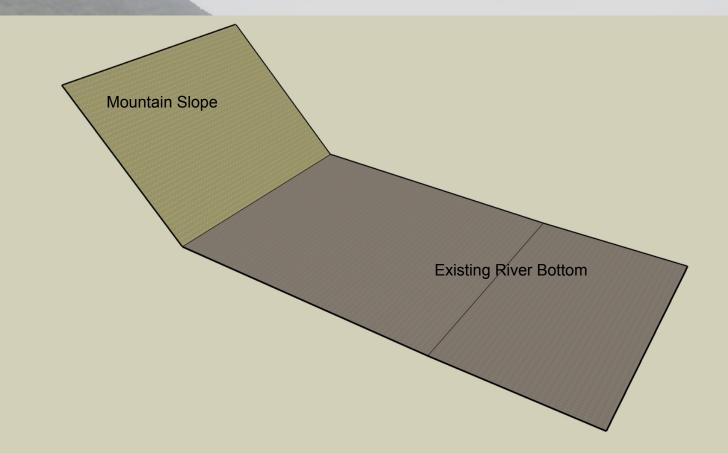


USA 1

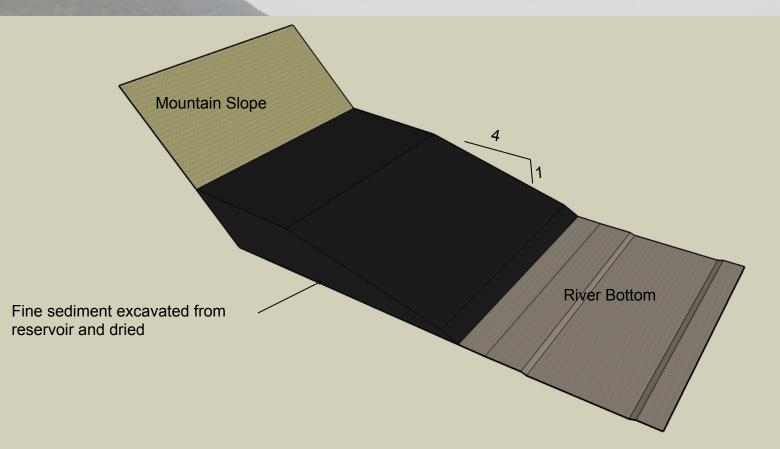


USA 3 (Coarse)

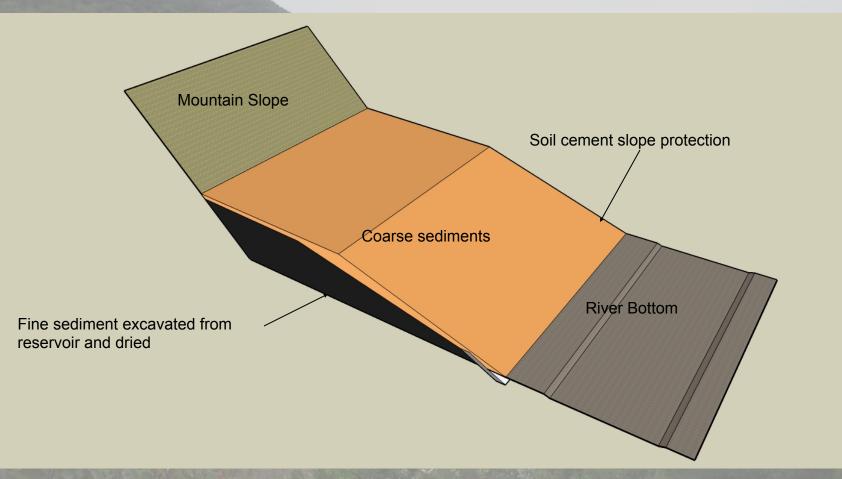












Disposal Issues

- Biological Resources
- Land Use & Recreation
- Hydrology & Water Quality
- Aesthetics
- Noise
- Traffic
- Cost

Disposal Site Footprints*

HABITAT	MODA	BRDA (1&2)
Alluvial Scrub	29.5	26
Grassland	32.5	14
Channel	3	18
Mule Fat Scrub	0	11
Coastal Sage Scrub	1.5	0
Oak Woodland	8	2
Ruderal/Barren	0.5	0.5
Trees	163	82
Total Acres	75	71.5

*Slurry line & staging area footprints not shown

Feasibility Plan vs. Proposed Upstream Stockpiles

PRELIMINARY ESTIMATES:

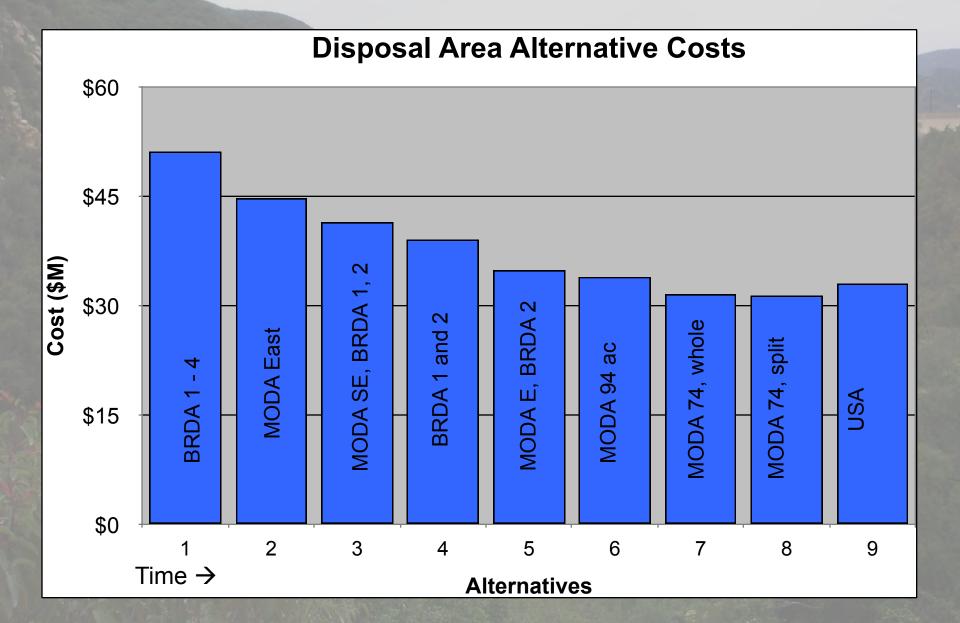
- Same linear distance: 1.8 river miles
- Footprint total difference of 37 acres:
 225 Feasibility v. 262 USA
- But avoids impacts to 75+ acres downstream
- Both alternatives avoid historic/cultural resources

Feasibility Plan vs. Proposed Upstream Stockpiles

Habitat Type	Feasibility USA		Net Change
Alluvial Scrub	2.5	2.5	0
Freshwater Marsh	12.5	12.5 12.5	
Channel	25	25 25	
Lake/Dam Pool	28.5 28.5		0
Mixed Riparian Tributaries	2	4.5	+2.5
Giant Reed/Willow Riparian	84.5	84.5	0
Chaparral	56	73	+17
Coastal Sage Scrub	7.5	7.5	0
Oak Woodland	1	3	+2
Oak Woodland/Chaparral	1.5	11	+9.5
Oak Woodland/Giant Reed	2.5	8.5	+6
Total Acres	223.5	260.5	37

Disposal Alternatives Comparison

HABITAT	MODA	BRDA (1&2)	Net USA
Alluvial Scrub	29.5	26	0
Grassland	32.5	14	0
Coastal Sage Scrub	1.5	0	0
Freshwater Marsh	0	0	0
Lake/Dam Pool	0	0	0
Channel	3	18	0
Mule Fat Scrub	0	11	0
Mixed Riparian Tribs	0	0	2.5
Giant Reed/Willow	0	0	0
Chaparral	0	0	17
Oak Woodland Types	8	2	17.5
Ruderal/Barren	0.5	0.5	0
Total Acres	75	71.5	37



Advantages of Upstream Storage

Eliminates Impacts To Communities Adjacent To **Downstream Disposal Sites Cheaper Than BRDA Eliminates Slurry Line Construction Impacts Eliminates Water Needed for Slurry Activity** >**Decreases Overall Project Footprint Decreases Construction Risk Decreases Environmental Impacts Improves Water Quality** \succ **Decreases Real Estate Issues** >

Summary