



Colorado River Aqueduct Copper Basin Outlet Rehabilitation

Engineering & Operations Committee

Item 8-2

January 9, 2012

Current Action

- Appropriate \$3.76M in budgeted funds
- Award \$2,982,500 contract to Cora Constructors for rehabilitation of the Copper Basin outlet structure

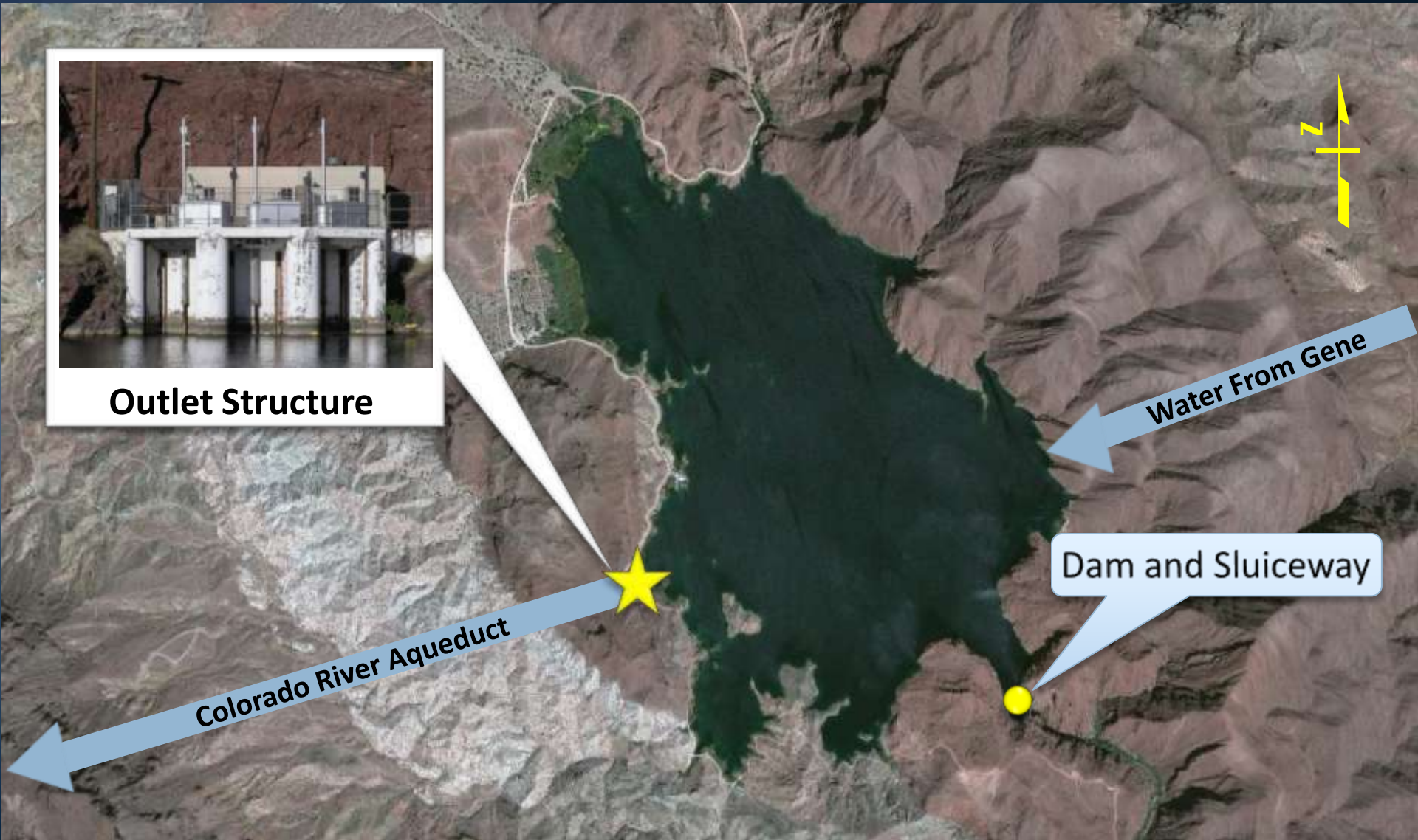
CRA Location Map



Copper Basin Reservoir



Outlet Structure



Dam and Sluiceway

Colorado River Aqueduct

Water From Gene

Background

- Constructed in 1938
- Outlet gate components are corroded
- Actuators are worn & corroded
- Rock slope is unstable
- Electrical equipment is out-dated



Outlet Structure



Gate Actuator

Scope of Work

- Replace 3 gate actuator motors & gear boxes
- Refurbish & replace key components of 3 slide gates
- Fabricate 2 drop gates

Electric Motor



Gear Box



Slide Gate



Actuator Gears

Scope of Work, Cont.

- Stabilize adjacent slope
- Replace electrical equip. & bldg.
- Replace transformers
- Extend power line (Met. Forces)



Unstable Slope

Outlet Structure



Electrical Bldg. & Equip.

Bid Results

Specifications No. 1662

Bids received	December 8, 2011
No. of bidders	5
Low bidder *	Kaveh Eng. & Const.
2 nd Low bidder	Cora Constructors
2 nd Low bid	\$2,982,500
High bid	\$3,432,875
Engineer's estimate	\$2,553,000
SBE participation **	100%

* Bid withdrawn

** SBE (Small Business Enterprise) participation set at 20%

Requested Funds

Labor

Const. inspection	\$	376,000
Submittal review, record dwgs.		115,000
Project mgmt., envir. monitoring		106,500
Met. force construction		180,000
Contract		2,982,500
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Total	\$	3,760,000

Schedule

	2011	2012	2013
Copper Basin Outlet Rehabilitation			

 Board Action

 Construction

 Completion

Board Options

- Option #1

- Adopt CEQA determination
- Appropriate \$3.76M in budgeted funds
- Award \$2,982,500 contract to Cora Constructors

- Option #2

- Do not award the construction contract

Staff Recommendation

- Option #1

