Canal Improvements on the Colorado River Aqueduct

Engineering & Operations Committee
Item 8-3
September 21, 2015
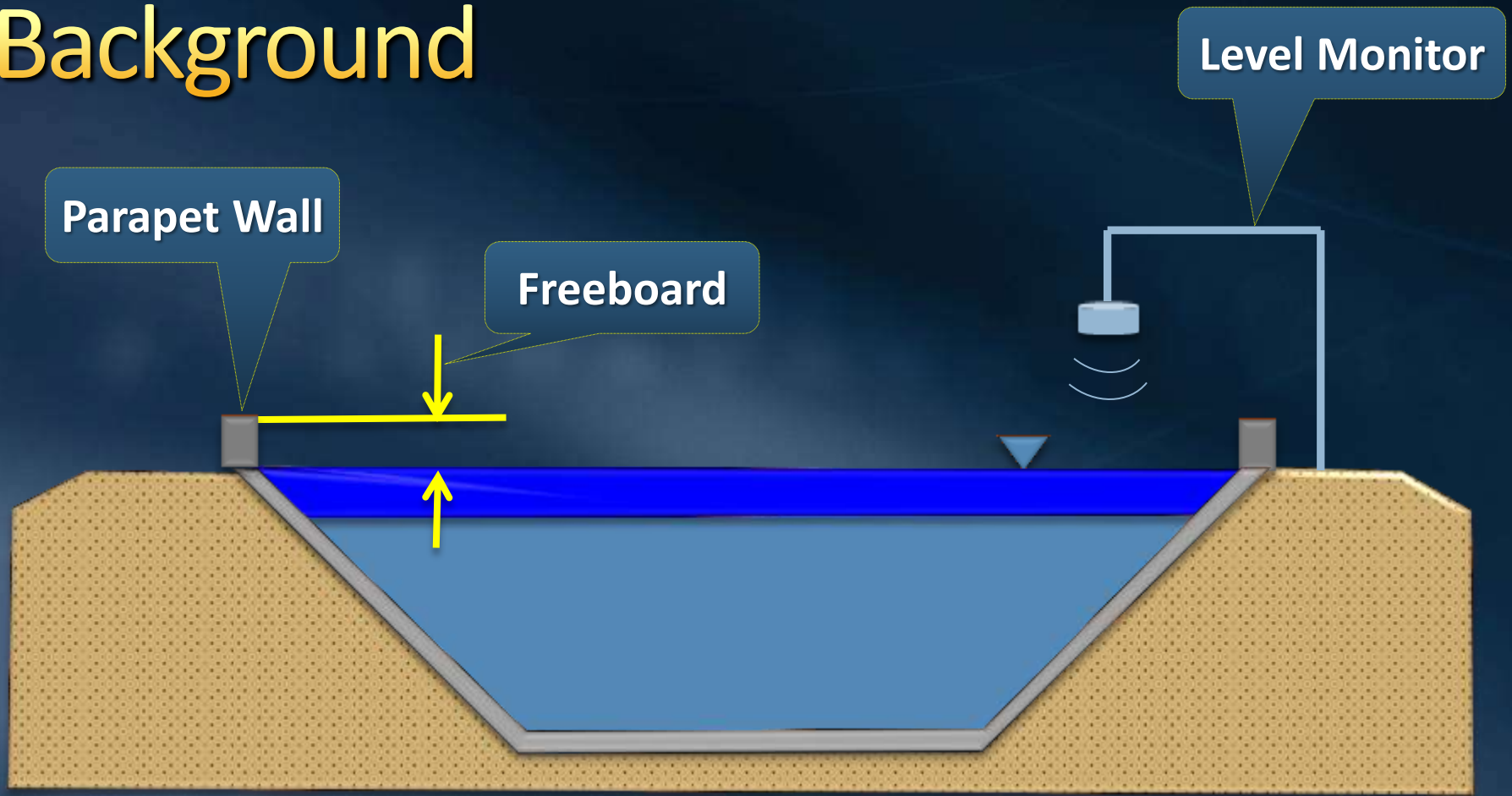
Current Action

- Appropriate $19.8M

- Award $16.64M const. contract to Kiewit Infrastructure West Co. for the CRA Canal Improvements

Location Map

Intake

Gene

Iron Mountain

Eagle Mountain

Colorado River Aqueduct

Hinds

Colorado River

Legend
- 🟡 Pumping Plant
- 🟢 Level Monitors
- 🟠 Canal Improvements

Background

Canal Cross Section

Background

- Original design capacity - 1605 cfs

- Pumps modified in 1980s, peak flow increased to 1750 cfs under specific conditions

- At high flows, water may overtop canal at curves, low spots, & areas of sediment deposits

- Insufficient freeboard allows spills

Insufficient Freeboard

Erosion Behind Sidewall

Rehabilitation Scope

- Contractor
  - Construct 28 miles of concrete parapet walls
  - Replace 9,000 sq. ft. of cracked & leaking concrete panels
  - Install 5 monitoring stations

- Metropolitan Staff
  - CRA shutdown & start-up
  - SCADA integration
  - Construction inspection
  - Project mgmt., envir. monitoring

Technical Support – Lee & Ro, Inc.

- Engineer of Record
- Scope of work
  - Submittals review & responses to RFI's
  - Technical support
- SBE participation level - 100 %
- Estimated cost - $192,000
- New agreement awarded under GM's Admin. Code Authority
- No action required

Bid Results

Specifications No. 1796

Bids Received	August 18, 2015
No. of Bidders	7*
2nd Low Bidder	Kiewit Infrastructure West Co.
2nd Low Bid	$16.64M
Range of Higher Bids	$17.4M to $25M
Engineer's Estimate	$17.8M
SBE participation**	25%

* Low bidder withdrew bid
** SBE participation level set at 25%

Requested Funds

Construction Contract	$ 16,640,000
Labor	
Met. Force Construction	351,000
Construction Inspection	1,748,000
Program Mgmt, Envir. Monitoring,	
Record Drwgs	407,000
Professional Services	
Lee & Ro, Inc.	192,000
Remaining Budget	462,000
Total	$ 19,800,000

Total Construction Cost: $16.99 M

Schedule

CRA Canal Improvements	2015	2016	2017
Parapet Wall Installation		▬▬▬▬	
Panel Replacement & Monitor Installation		▮	

▬ Construction   ◆ Completion

● Board Action   ▮ Shutdown

Board Options

- **Option #1**
  - Adopt CEQA determination that the proposed action is categorically exempt
  - Appropriate $19.8M
  - Award $16.64M const. contract to Kiewit Infrastructure West Co.

- **Option #2**
  - Do not proceed at this time

Staff Recommendation

- Option #1

THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

1928