Project Update for Beaver Creek Diversion Dredging and Adit 4
North Fork Stanislaus River Hydroelectric Project

Facilities Committee
September 6, 2017
NCPA Hydro System

McKays Reservoir
North Fork Diversion Dam/Tunnel
Utica Reservoir
Lake Alpine
Union Reservoir
New Spicer Meadow Reservoir
Power Plant
3 units 2 @ 2.75 MW
1 @ 0.5 MW

Beaver Creek
Highland Creek

Collierville Power Plant
2 units @ 126.5 MW each

Adit 4
North Fork Stanislaus

N  O  R  T  H  E  R  N     C  A  L  I  F  O  R  N  I  A    P  O  W  E  R    A  G  E  N  C  Y
Flood Damage

- January-February floods filled the Beaver Creek Facility with 11,400 cubic yards of sediment and debris
- Prevents hydropower and consumptive water diversions to McKays
- Immediate restorative action is required to avert a multi-year delay in Facility operation
- Emergency permitting and construction
Beaver Creek Intake Structure and Reservoir
Beaver Creek Intake Structure
Beaver Creek Cleanout
Beaver Creek Cleanout
**Timelines**

- **February-April:** Complete access road bypass
- **March-May:** Agency consultations/permitting
- **April:** Detailed reservoir bathymetry
- **May:** Dive contract scoping and bidding
- **June-July:** Suction dredging at Intake
- **July:** Excavation contract scoping & bidding
- **August:** Excavation/hauling (8,500 yds. as of 9/1)
- **Sept. 1st:** ACOE approved additional 4,600 yards
- **Sept/Oct:** Excavation/hauling
Adit 4 Spoils Facility Repair
Schedule

- June: Mobilization, water control, demolition
- July: Cut access and construct the keyway
- August: Construct the energy dissipater
- September: Drill horizontal drains and place fill
- October: Shotcrete canal
- November: Handrails, final site stabilization, road repairs and scheduled completion
Schedule

- Contractor’s schedule slipped one month
- NCPA notified contractor that first recovery schedule for canal still leaves potential storm water risks
- Staff reviewing second recovery schedule and stormwater contingency plan
Insurance

- Staff met with McLaren's and their engineer 8/14
  - McLaren's engineer identified significant potential coverage exclusions
  - Presented NCPA reasoning for complete coverage
  - Established replacement-in-kind costs
  - Answered their engineer’s questions
- McLaren's, engineer, underwriters are reviewing NCPA’s counterproposal