

EL DORADO IRRIGATION DISTRICT

SUBJECT: Update on status of Caldor Fire recovery activities.

PREVIOUS BOARD ACTION

August 23, 2021 – Board adopted Resolution No. 2021-012 ratifying the General Manager’s declaration of an emergency for the Caldor Fire.

September 13, 2021 – Board ratified a time-and-materials construction contract to Syblon Reid Contractors in the not-to-exceed amount of \$17,000,000 for the emergency replacement of Flumes 4, 5 and 6, and approved total project funding in the amount of \$17,000,000; Project Nos. 21047, 21048, and 21049.

October 12, 2021 – Board ratified contracts with GHD Inc. in the not-to-exceed amount of \$1,740,000 for engineering design and construction support for Flumes 4, 5 and 6, and approved project funding in the amount of \$2,340,000; Project Nos. 21047, 21048, and 21049.

December 13, 2021 – Staff presented an update on Caldor Fire recovery activities.

BOARD POLICIES (BP), ADMINISTRATIVE REGULATIONS (AR) AND BOARD AUTHORITY

BP 0010 District Mission Statement
BP 0030 Accountability

SUMMARY OF ISSUE

Staff will present an update on emergency work being performed in response to damage to Flumes 4, 5, 6, and 30 caused by the Caldor Fire.

BACKGROUND/DISCUSSION

In August 2021, the Caldor Fire erupted and caused extensive damage to the District’s Project 184 system. The primary damage included the loss of four wooden flumes along the El Dorado Canal. The Board has approved construction and engineering services contracts to expedite the replacement and restoration of the Project 184 conveyance system destroyed by the fire. The replacement of Flumes 4, 5, 6, and 30 are currently under construction.

Replacement of Flumes 4, 5, 6 and 30 is proceeding despite weather setbacks with significant rain events last fall and a large snowstorm that resulted in three feet of snow on the construction sites. Along with the weather, other major obstacles have been overcome including the removal of hazardous materials as a result of the fire, and unstable bench foundations encountered at Flumes 4 and 5.

Several collaborations between the District, GHD (designer), and Syblon Reid Contractors to refine the scope of work resulted in making up days that were lost due to the rain and snow events. The good news (from a construction standpoint) was our area received very little precipitation in January, and construction was able to resume in the latter half of the month. The forecast for the month of February appears to be dry as well. At this time, the goal is to have the flumes have the ability to convey water by April 2022, weather permitting.

Staff will highlight the work completed to date and remaining work during the Board meeting.

BOARD OPTIONS

None – Information only

RECOMMENDATION

Information only

ATTACHMENTS

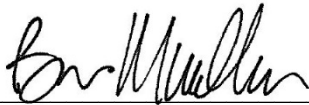
None



Cary Mutschler
Senior Engineer



Elizabeth Dawson
Engineering Manager



Brian Mueller
Engineering Director



Jim Abercrombie
General Manager

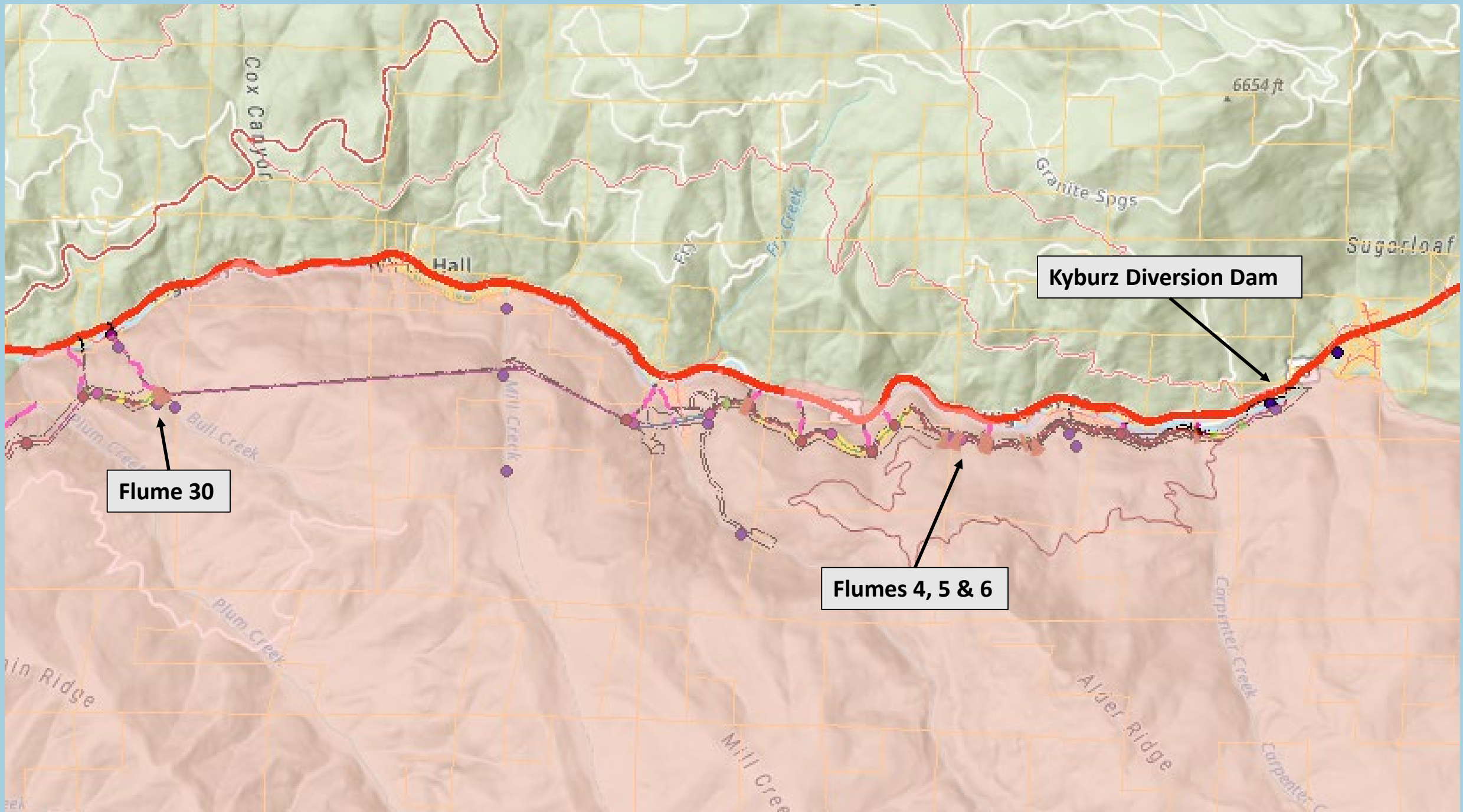
Flumes 4, 5,6, and 30 Caldor Fire Emergency Restoration Status Update

February 14, 2022



Previous Board Actions

- August 23, 2021 – Board adopted resolution ratifying declaration of an emergency for the Caldor Fire
- September 13, 2021 – Board ratified construction contract to Syblon Reid Contractors for the emergency replacement of Flumes 4, 5 and 6
- October 12, 2021 – Board ratified contracts with GHD Inc. for engineering design and construction support for Flumes 4, 5 and 6 Replacement
- December 13, 2021 – Caldor Fire Update



Cox Canyon

6654 ft

Granite Spgs

Sugarloaf

Hall

Kyburz Diversion Dam

Flume 30

Flumes 4, 5 & 6

Mill Ridge

Alger Ridge

Mill Cree

Carpenter Creek

Carpenter C

Status of Flume 4 through 6

- Resumed work January 7 with plowing of roads
- Excavations in most complicated section on Flume 4 is complete
- All hazardous materials have been removed
- Soil needed for the project has been stockpiled
- Flume 5 and 6 ready to form and pour
- Expected water up date – April depending on weather

Flume 4-6 December Storm Impacts



Flume 4



Flume 4



Flume 4



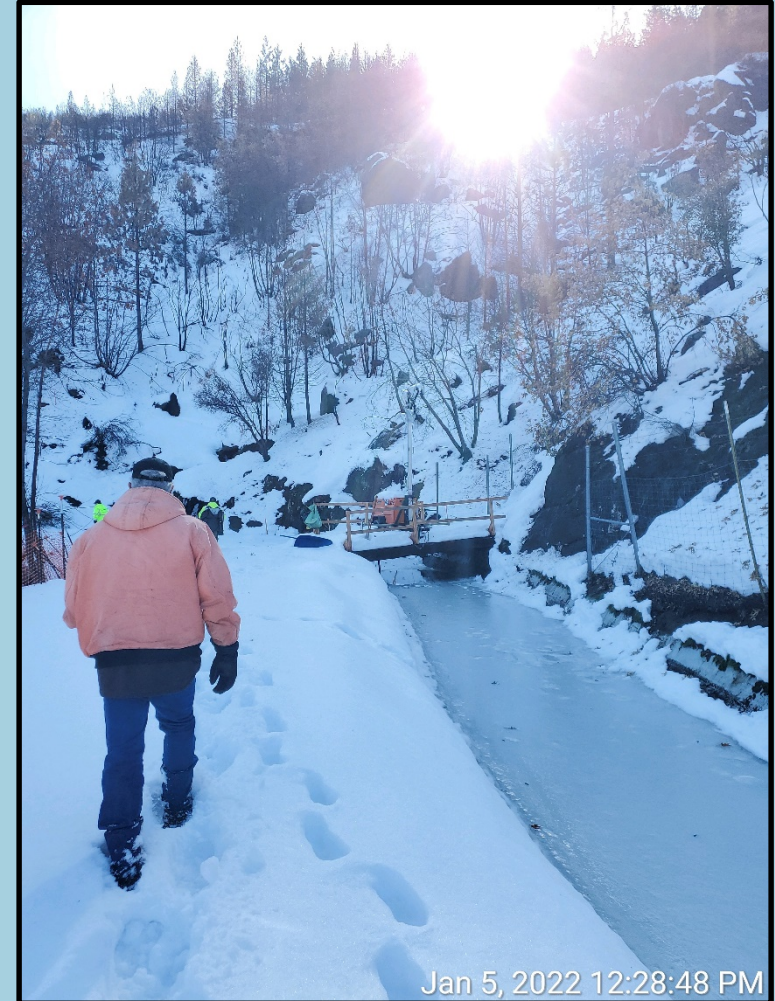
Flume 5



Flume 5



Flume 6



Typical U-Shaped Canal and Bench

Flume 38/40



Flume 44



Status of Flume 30

- Resumed work January 7 with plowing of roads
- Hazardous materials have been removed
- Placement of aggregate base rock continues on access road
- Wall B repaired from December storm erosion and preventive measure placed to prevent future problems
- Scaling above the future canal section complete
- Expected water up date – April dependent of weather

Flume 30



Flume 30



Flume 30



Flume 30



Change Orders

- Change orders due to Caldor Fire for Flume 30
 - Hazardous material removal - \$500k (Better numbers 2/8 – need trucking costs)
 - Extra tree removal - \$100k (Better numbers 2/8)
 - Deductive change orders - \$400k (working through process better numbers on 2/8/22)

Upcoming work

- Complete excavation work at Flumes 4 and 30
- Start moving around 3,000 cubic yards of soil for new canal section
- Shotcrete new canal sections
- Substantial Completion – Flow water
- Final Completion – Finish work not necessary to flow water