

Wolf Creek Dam Safety Project Team Cumberland Update

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Nashville District

30 April 2014



US Army Corps of Engineers
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Agenda

- **Recent Construction Milestones**
- **Future construction contracts**
- **Synopsis and impacts of Endangered duskytail darter Formal Consultation**
- **Financial status and future of project**



Historic Event!

At 1623hrs on Wednesday 6 March 2013, the last of 1,197 piles was completed 239 days ahead of schedule.





Wolf Creek

Switchyard
Barrier Wall
Guidewall

August 2013



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Wolf Creek

Switchyard
Barrier Wall
Guidewall
and Working
Slab

5 Sep 2013



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Wolf Creek

Powerhouse
Newly Paved
Parking Lot

28 April 2014

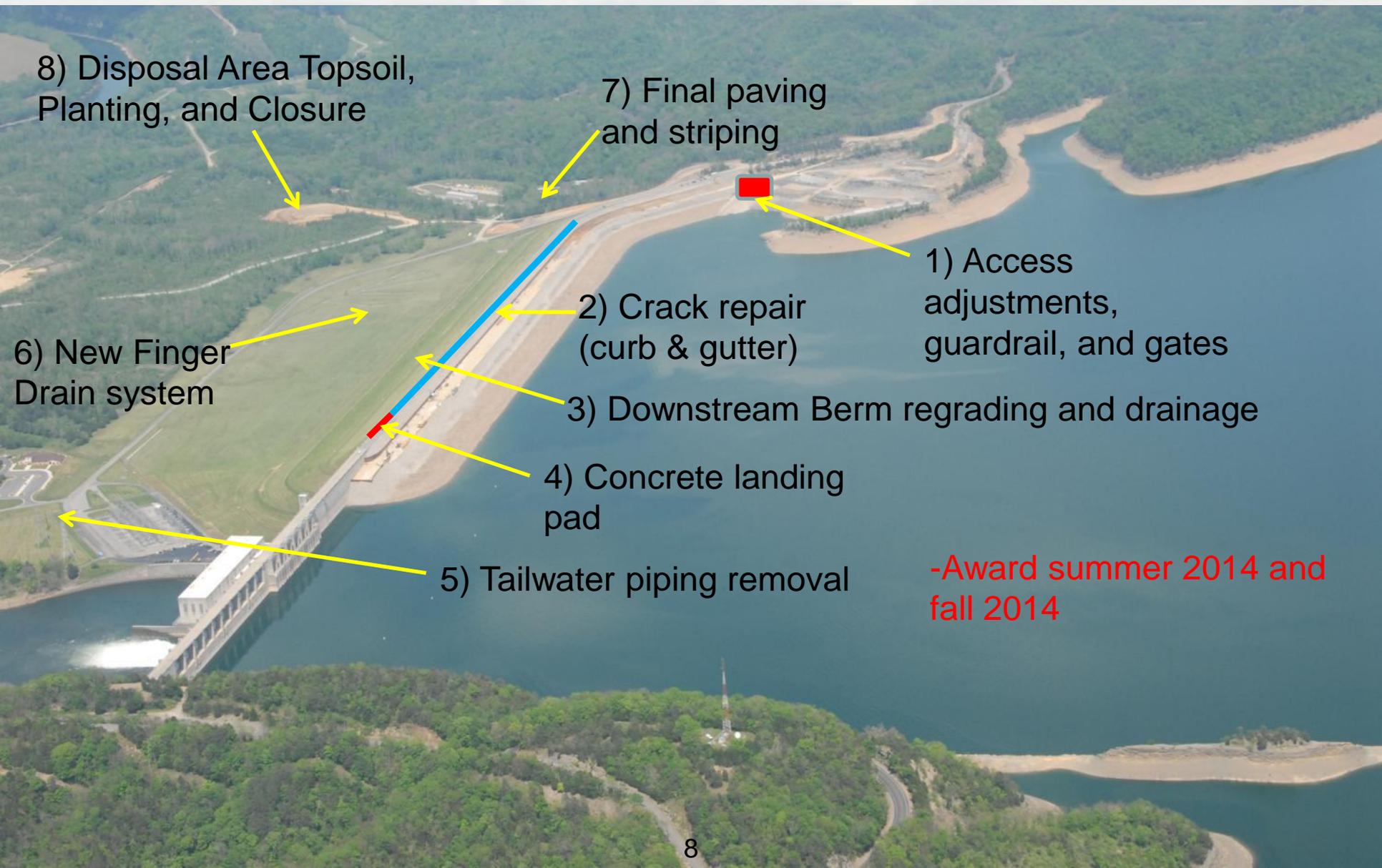


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26 February 2014

Next Two Construction Contracts



8) Disposal Area Topsoil, Planting, and Closure

7) Final paving and striping

1) Access adjustments, guardrail, and gates

2) Crack repair (curb & gutter)

3) Downstream Berm regrading and drainage

6) New Finger Drain system

4) Concrete landing pad

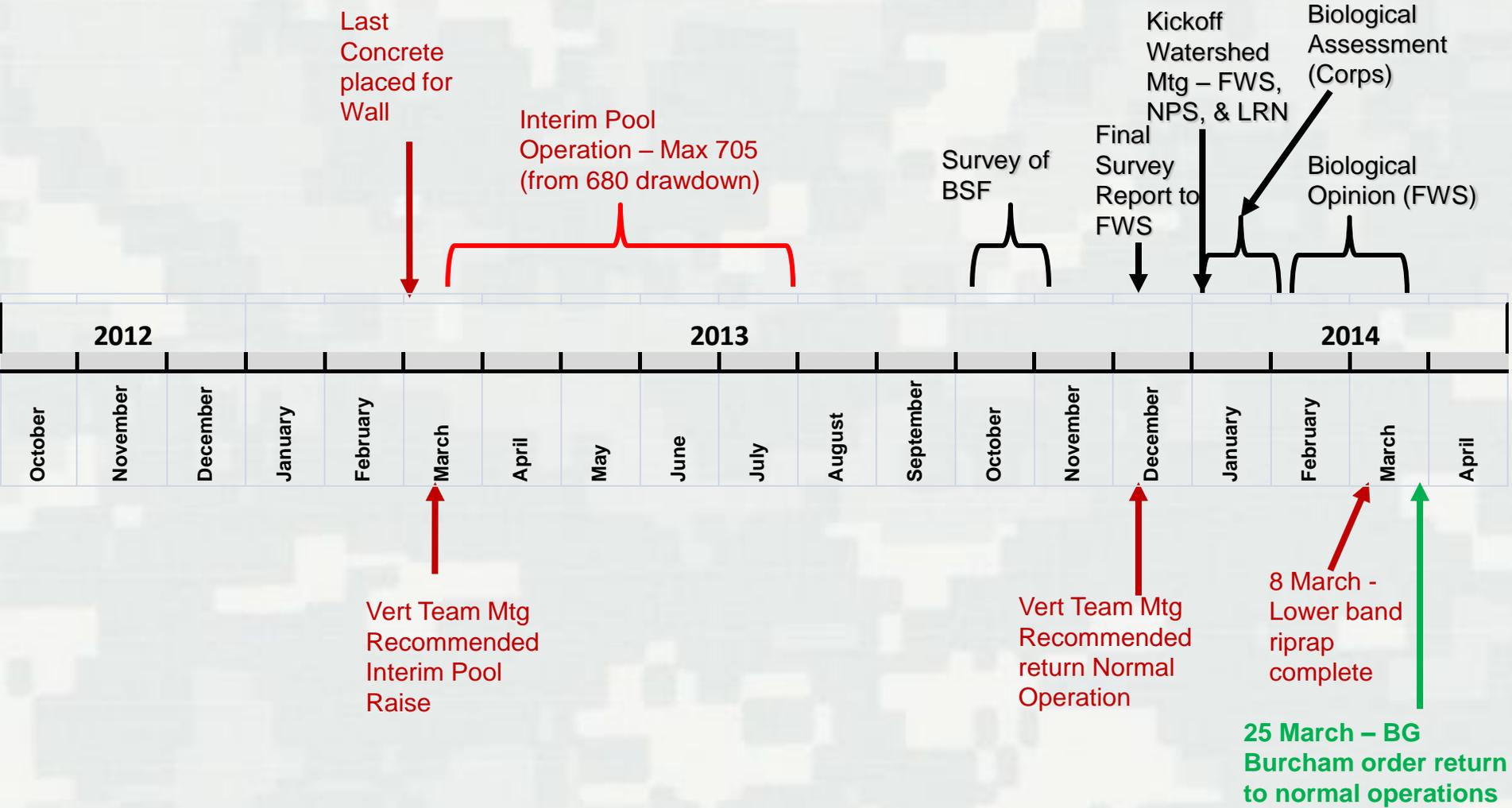
5) Tailwater piping removal

-Award summer 2014 and fall 2014

Duskytail Darter



Dam Safety and ESA Timeline of Events



Required Terms and Conditions in Biological Opinion

- **Capture and hold duskytail darters**
- **Long term monitoring in Big South Fork – 5 to 7 years**
- **Water Quality Improvements in Big South Fork**
- **Interim dam operation – Follow Top SEPA curve during fill cycle for 3 years or until WQ measures are implemented**





20 Jan 2014

“Yellow Boy”
at BSF AMD
site
downstream
of Laurel
Branch



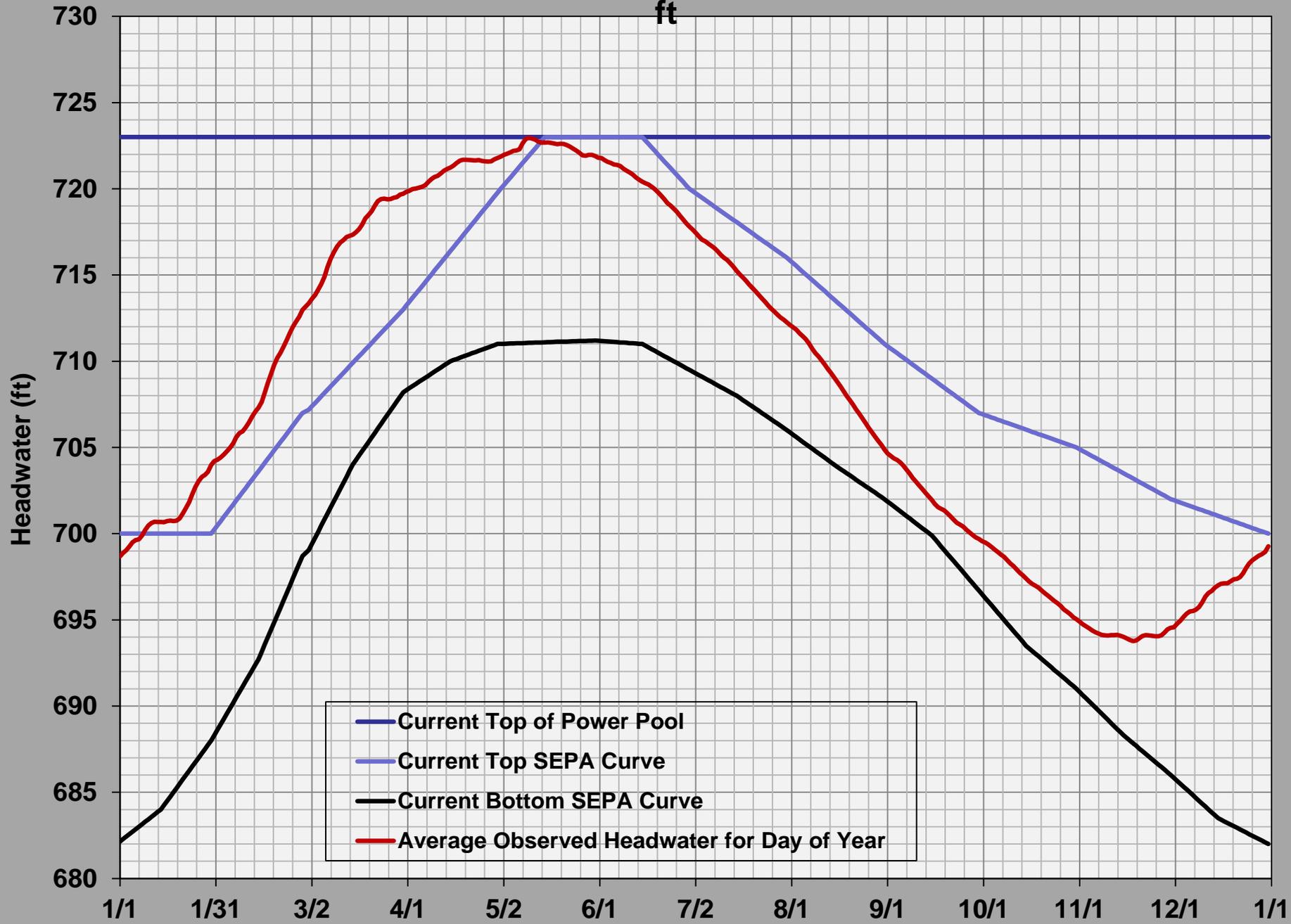
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Big South Fork Streambank Protection Site – March 2014

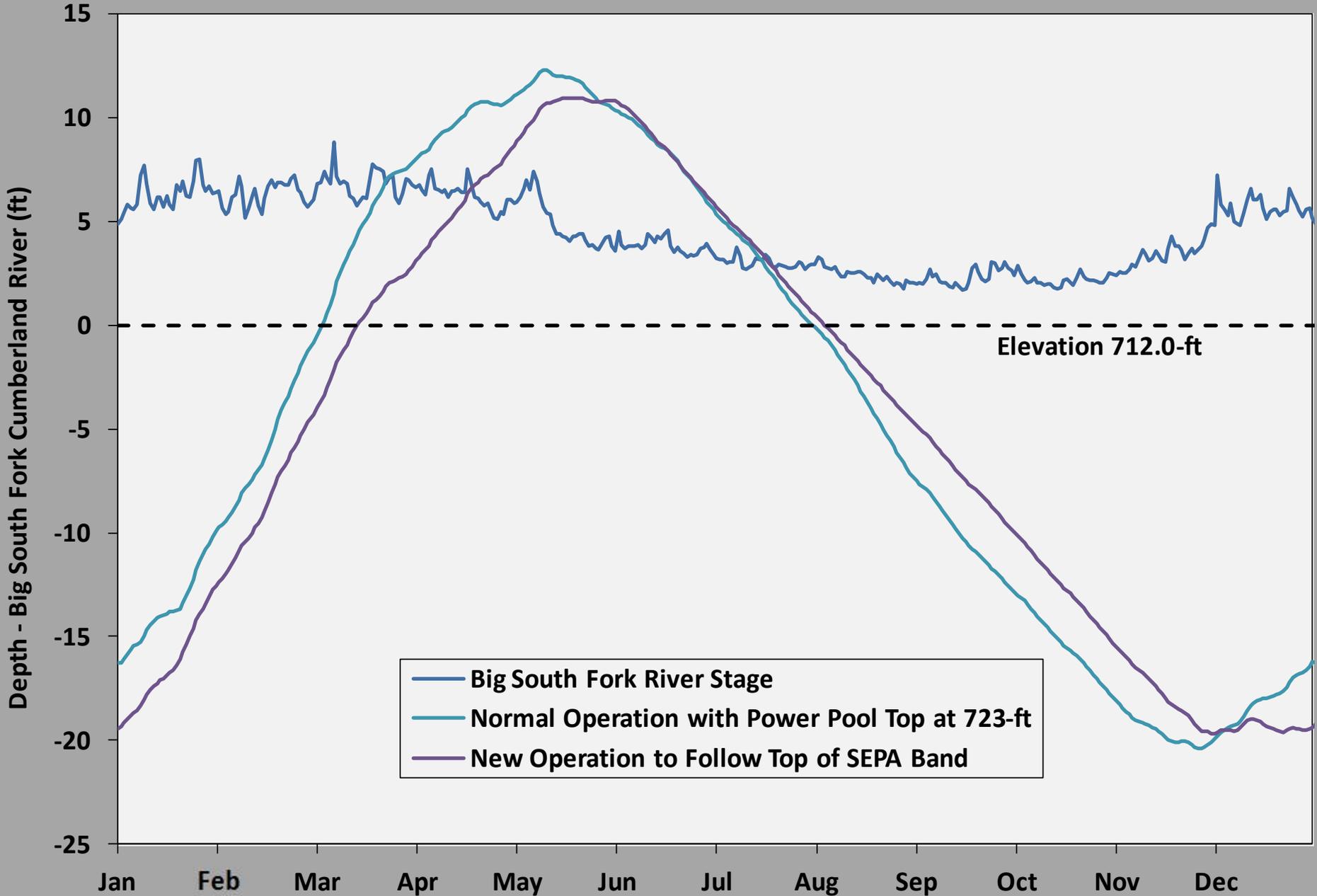


Figure 3 - Wolf Creek Guide Curves with Top of Power Pool at 723-

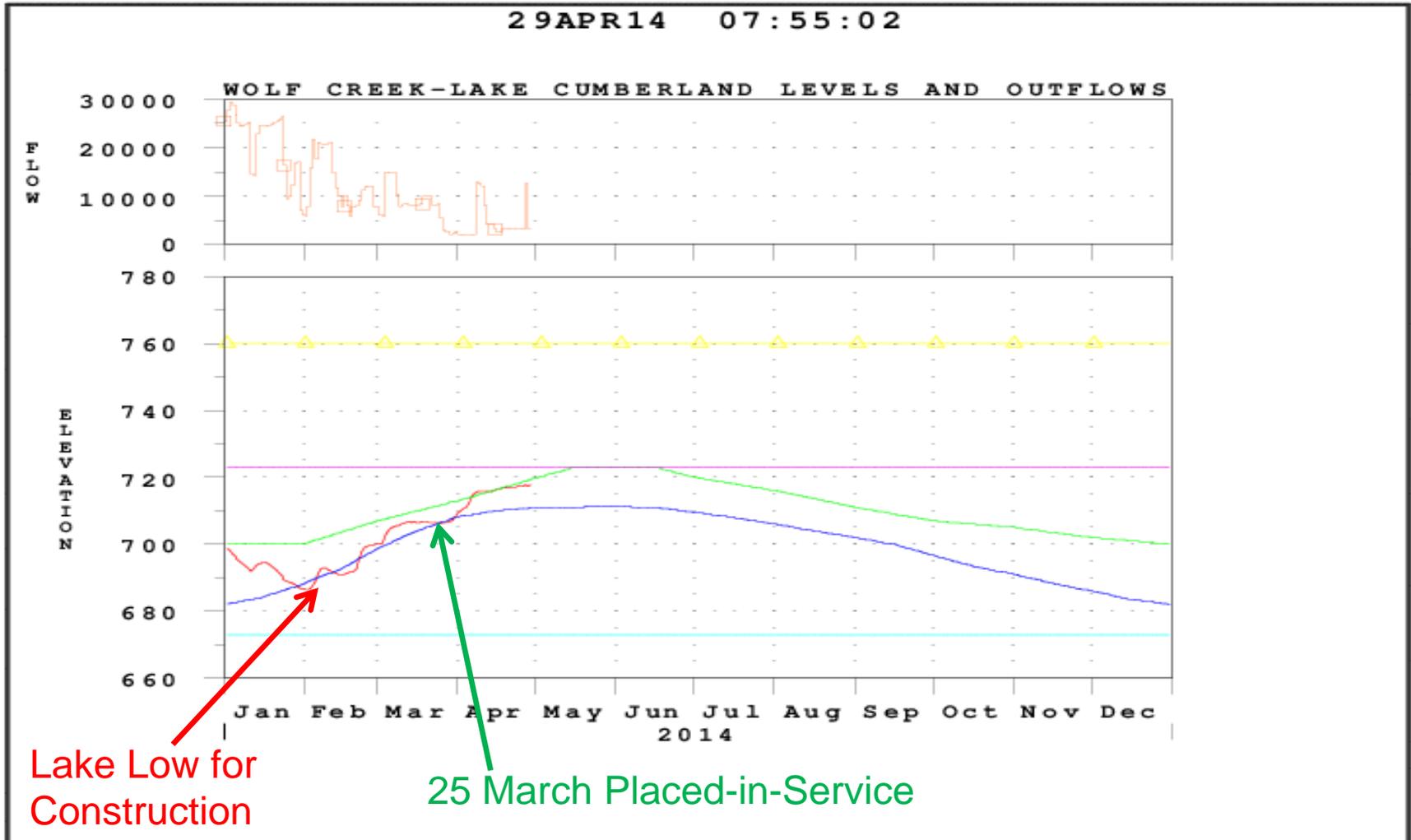
ft



Average River Stage and Backwater with Top of SEPA Band and Normal Operations at Site 8 (BSF River Mile 40.1 at Elevation 712.0-ft)



2014 Operation to Date



Financial Status

- **\$593.7M – Total Funds Allocated**
- **\$569.7M – Expended through 31 Mar 2014**
- **\$24.0M – Remaining to Expend**

Remaining significant activities:

- 1) Complete Barrier Wall Contract
- 2) Site Stabilization and Road Restoration construction contracts
- 3) Endangered Species Compliance (<\$3M)
- 4) Post Implementation Evaluation (DSAC) and Cultural Resource contracts
- 5) **Contingencies**



Remaining Expenditures by FY

FY 14 - \$9.5M (1 Apr 14 to 30 Sep 14)

FY 15 - \$11M

FY 16 - \$2M

FY 17 - \$0.2M

FY 18 - \$0.2M

FY 19 - \$0.2M

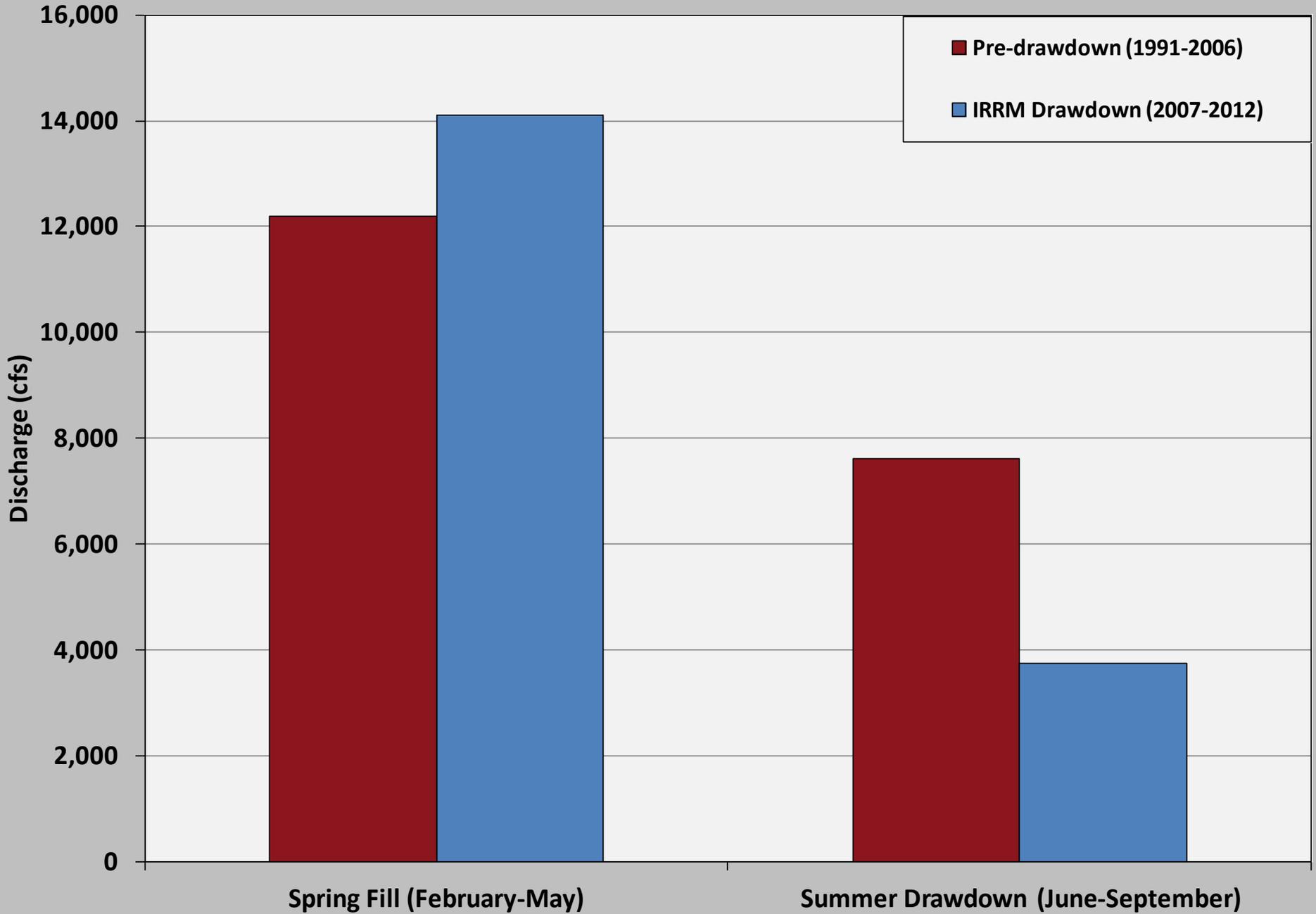
FY 20 - \$0.2M

FY 21 - \$0.7M (Latest for project close-out)

\$24.0M - Total



Pre and Post-drawdown Releases at Wolf Creek



Difference in Post and Pre-drawdown Releases at Center Hill

