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Overview of 2023 Alamo Dam Release

- Elevated releases from Alamo Dam started on March 20, 2023
- Releases can impact CAP infrastructure and water users treating CAP water
- CAP stopped pumping from Lake Havasu for 7 days to reduce potential impacts
- Coordination and communication across multiple agencies

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Alamo Dam Overview

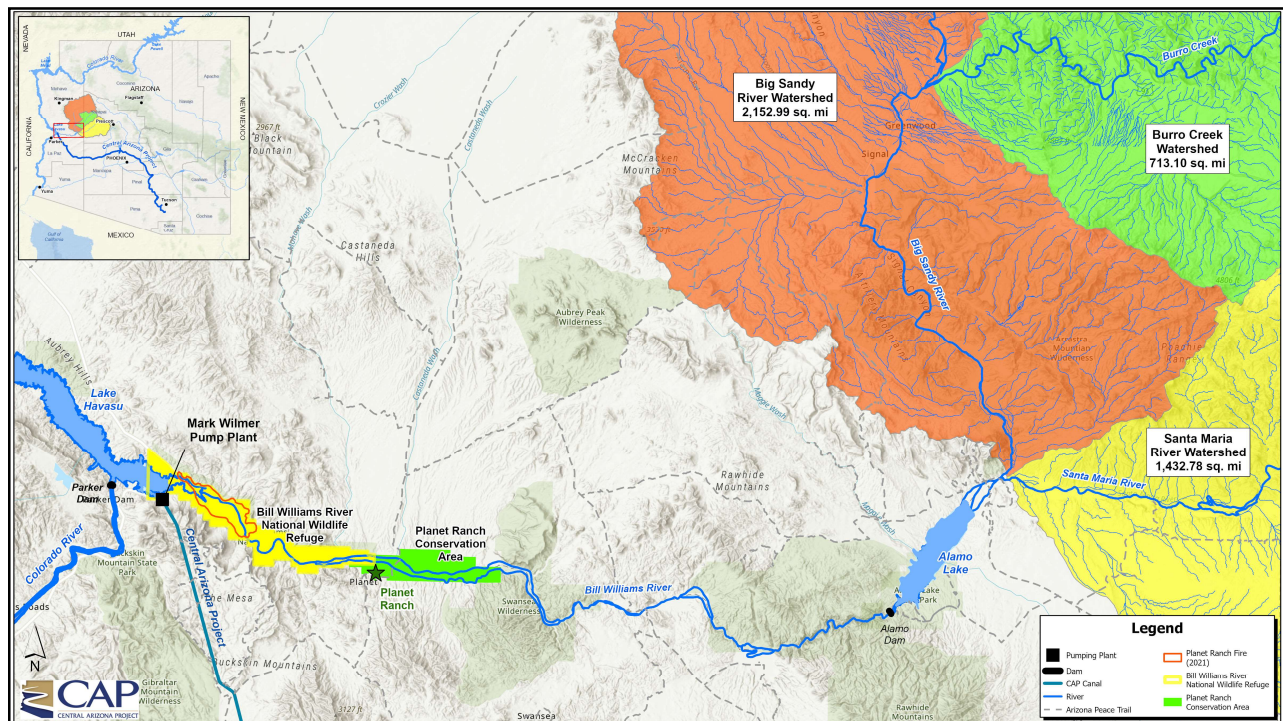
- Built in 1967
- Operated by the US Army Corps of Engineers
- Located on the Bill Williams River in Western Arizona
- Alamo Dam
 - 675,000 Acre-feet of flood control volume
 - 300,000 Acre-feet of conservation volume
- US Army Corps of Engineers consults with multiple Federal and State Agencies
 - Bill Williams River Wildlife Corridor Steering Committee (BWRSC)



Alamo Dam



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Alamo Dam Operation

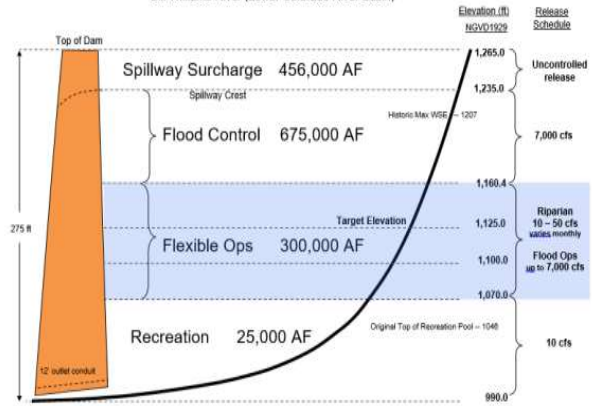
Operated according to the 2003 Water Control Manual

Riparian flows (10-50 CFS) when below target elevation (1125.0').

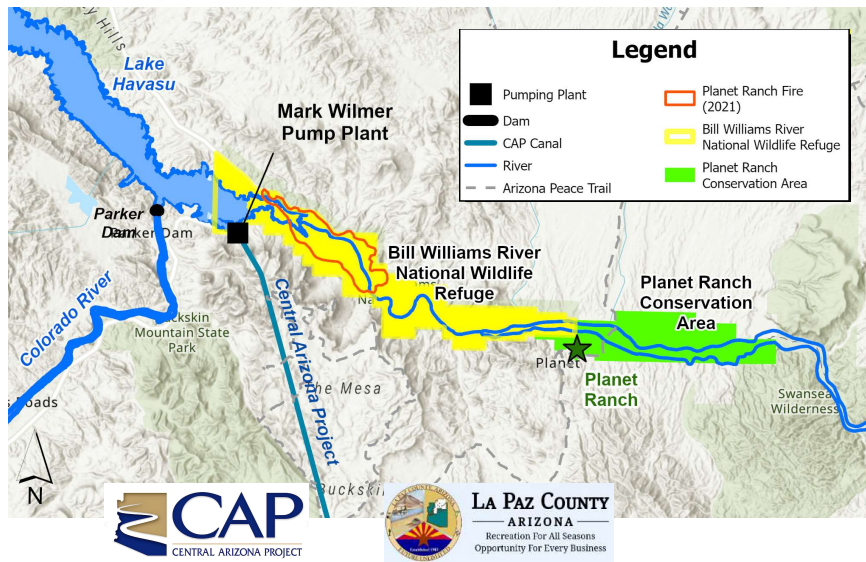
Various interests in releases from Alamo Dam

- Wildlife habitat creation on the Bill Williams National Wildlife Refuge
- Threatened and Endangered Species
- Fisheries
- Recreation benefits at Alamo Lake
- Bill Williams Riparian Habitat
- Water quality

ALAMO RESERVOIR STORAGE PROFILE
Bill Williams River (Lower Colorado River Basin)



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US Army Corps of Engineers.
Los Angeles District



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Alamo Dam Release Photo



March 21, 2023

~6,000 CFS, sending debris and highly turbid water into the Bill Williams River

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Alamo Dam Release Photo



March 22, 2023

Burn scare area near Plant Ranch

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Alamo Dam Release Photo



March 23, 2023

*Turbid water entering
Lake Havasu*

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Alamo Dam Release Photo



March 23, 2023

*Curtailed pumping
protected against turbid
water entering jetty*

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Alamo Dam Release Photo



March 25, 2023

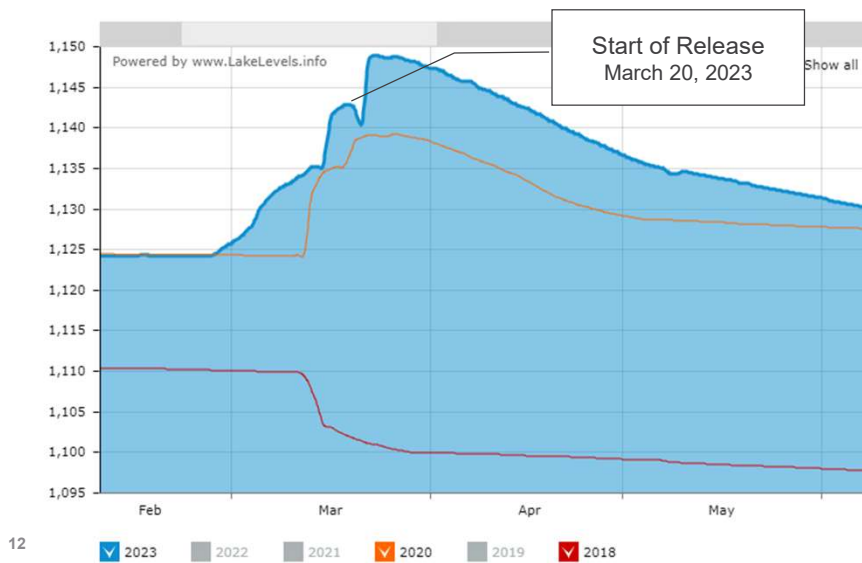
*Curtailed pumping
protected against turbid
water entering jetty*

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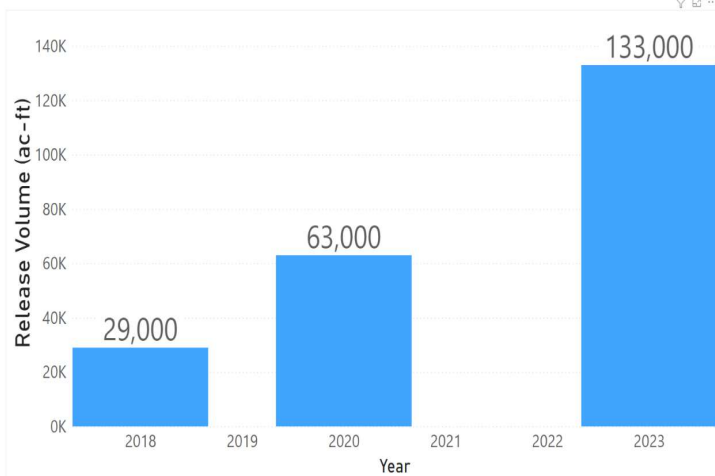
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2023 Alamo Dam Release Comparison



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2023 Alamo Dam Release Comparison



Year	Peak Release CFS	Days over 100 CFS (avg)
2018	4,780	18
2020	1,030	57
2023	5,900	86

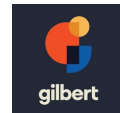
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Monitoring and Communication

- Water quality notification
- Stakeholder meetings
 - Phoenix Valley WTP Operators
- AquaPortal
- Real-time monitoring
- Daily sampling plan



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Open Water Sampling

CAP Turbidity Meter (MWP)

USGS Turbidity Meter (Bill Williams)

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Monitoring and Communication

Releases from Alamo Lake began at 8:00 am on March 20th. Go to the Alamo Dashboard for data and more information.

- Travel Time
- Real-time information
- Alamo Dam release volumes
- Flow rates
- Grab samples data

CAP Turbidity Meter

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Report on 2023 Alamo Dam Release

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Water Quality Notification

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CAP
CENTRAL ARIZONA PROJECT
YOUR WATER. YOUR FUTURE.

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Alamo Dam Release Timeline

Date	Activity
March 1 – Monday	CAP Notified of Potential/Planned Alamo Release
March 8 – Wednesday	First Weekly Stakeholder Meeting
March 20 – Monday	Start of release
March 21 – Tuesday	CAP Stopped pumping at Lake Havasu and transitions to Lake Pleasant Supply
March 24 – Friday	Releases to remain at 1000 cfs, CAP extended curtailment.
March 29 – Wednesday	Transition back to Havasu Supply (Lake Pleasant Blending)
March 31 – Friday	100% Havasu Supply, 1,500 CFS
April 1 – Saturday	Returned to normal pumping, 2800 CFS
April 2 – Sunday	Est. Havasu Supply arriving in Metro Phoenix
April 5 – Wednesday	CAP/Corps/BOR meeting to discuss Alamo operations
April 12 – Wednesday	Last Weekly Stakeholder Meeting

} Curtailed Pumping @ Lake Havasu

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Recognitions

- US Army Corp of Engineers and Bill Williams Stakeholders
- Phoenix Valley Water Treatment Operators
- CAP Staff and Leadership
- City of Glendale – Pyramid Peak Water Treatment Plant
 - Analysis of TOC
 - Daily plant source water information
 - Sharing of real-time experience



Recognitions

Plaque and Challenge Coin Presentation
City Glendale, July 10, 2023

