




Round Canyon Retarding Basin

Monitoring Survey

Legend

-  Benchmarks
-  Control Stations
-  Monitoring Stations



Google earth

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100 ft

Round Canyon Retarding Basin (F16B03) Monitoring Survey

This earthen dam was built in 1995. The first surveyed was performed in 1995 and is used as the "benchmark" for all future surveys.

Chart Details

Horizontal Movement Perpendicular to Dam Axis - shows all data from each year.

Stations 10+75 and 12+25 are held for ***Out From Line*** calculations starting 1997. The original monitoring stations were destroyed shortly after 1995 survey.

Positive numbers represent stations left of line (upstream), negative numbers represent stations right of line (downstream).

Horizontal Movement Along Dam Axis (difference from planned stationing) - shows all data from each year.

Station 12+25 is held for stationing calculations.

Positive numbers mean that the distances measured to each station are greater than planned stationing, negative number means less than planned stationing.

Vertical Movement - shows all data from each year.

Vertical differences are calculated comparing the elevation to the "1995 survey" elevation.

Detailed information pertaining to monument descriptions and survey information can be at OC Survey Division, Geodetic Control Unit.

All values shown are in U.S. Survey feet. Station names are in meters.

Horizontal Datum = CCS83, zone VI, 1991.35 Epoch Adjustment

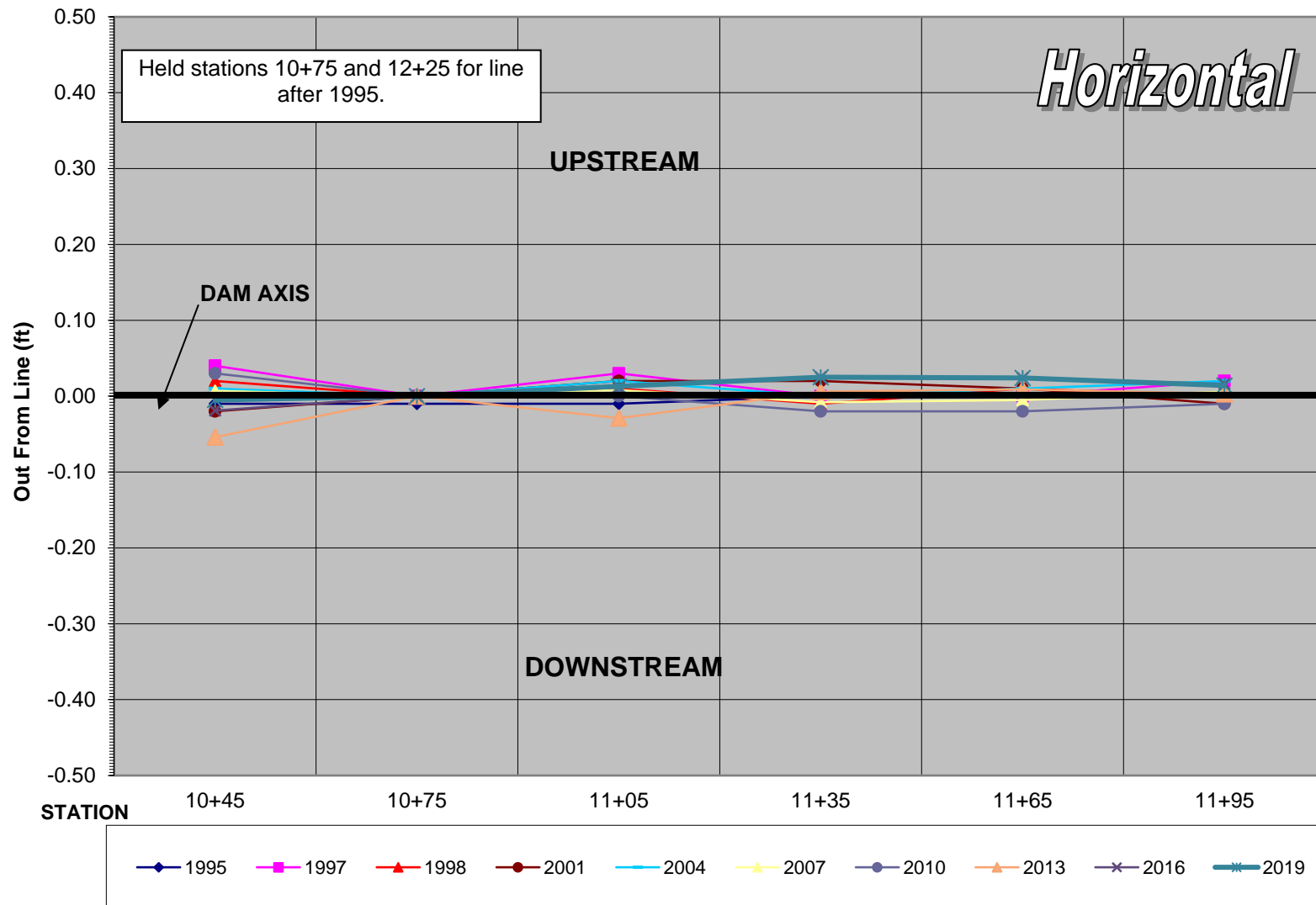
Vertical Datum = NAVD88, OCS 1995 Adjustment

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Report Summary

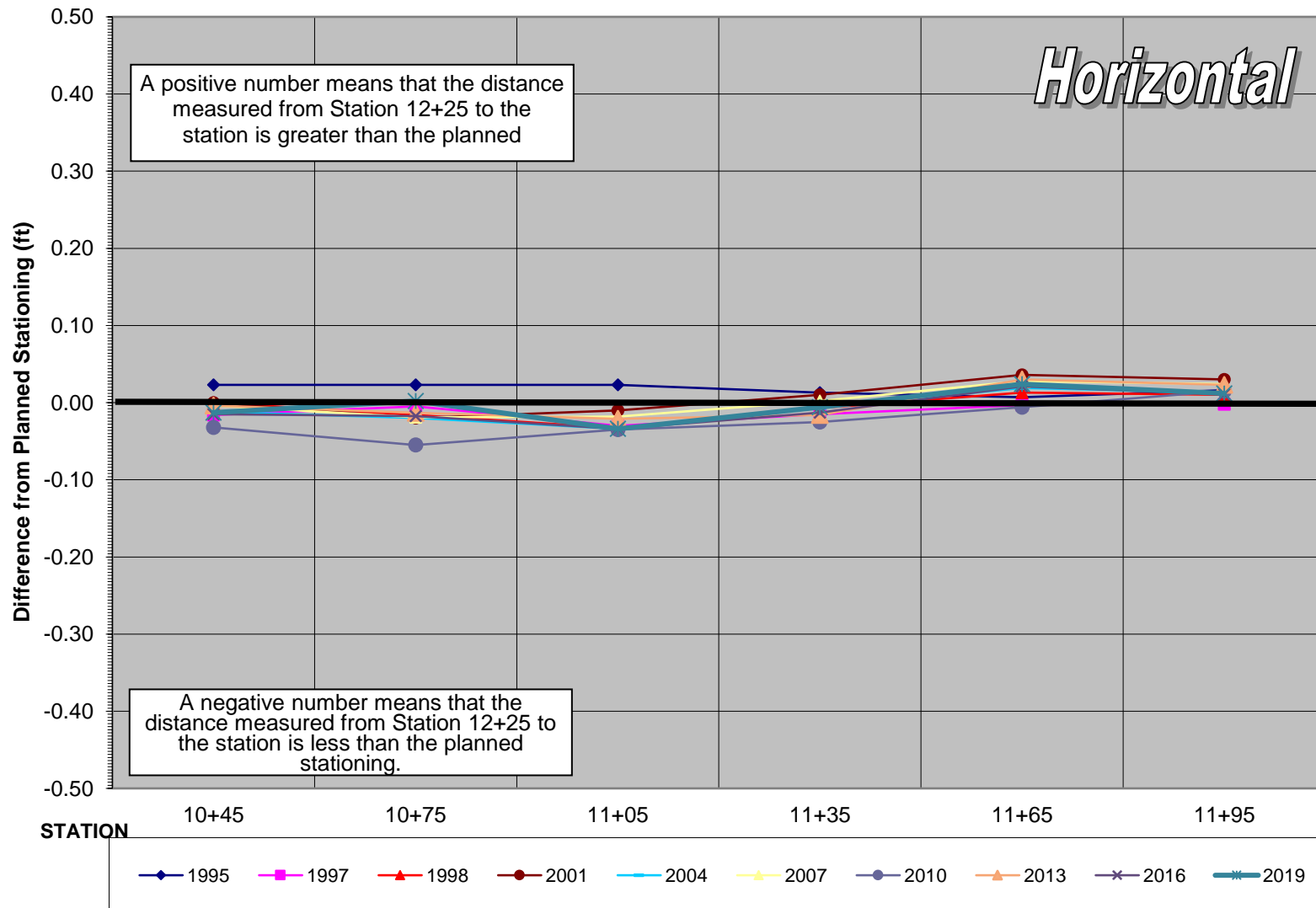
1995	Initial survey performed.
1996	No survey performed.
1997	All stations show subsidence of approximately 0.05 feet. 12+25 shows none. This is probably due to settlement of the dam. Horizontal positions seem stable.
1998	The same stations from the 1997 survey show a decrease in the subsidence down to approximately 0.02 feet. Horizontal positions seem stable. Construction has been continual for the last two years for the Foothill Transportation Corridor which abuts up against the downstream side of the dam.
2001	No significant movement detected. Vertical subsidence trend continues.
2004	No significant movement detected.
2007	No significant movement detected.
2010	No significant movement detected.
2013	No significant movement detected.
2016	No significant movement detected. Vertical subsidence trend continues.
2019	No significant movement detected.
2022	
2025	

Round Canyon Dam
Horizontal Movement Perpendicular to Dam Axis (Out From Line) - Plan View



Round Canyon Dam

Horizontal Movement Along Dam Axis (Difference from Planned Stationing)



Round Canyon Dam
Vertical Movement (Difference from 1995 Elevations) - Profile View - Looking Upstream

