

Hicks Canyon Retarding Basin

Monitoring Survey

Legend

- ▣ Benchmarks
- △ Control Stations
- Monitoring Stations



Google earth

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100 ft

Hicks Canyon Retarding Basin (F27B01) Monitoring Survey

This earthen dam was built in 1997. The first survey was performed in 1997 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 6+00 and 8+00 are held for ***Out From Line*** calculations.

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

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

Station 6+00 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 current elevation to the "1997 survey" elevation.

Detailed information pertaining to monument descriptions and survey information can be found 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

Hicks Canyon Retarding Basin (F27B01) Monitoring Survey

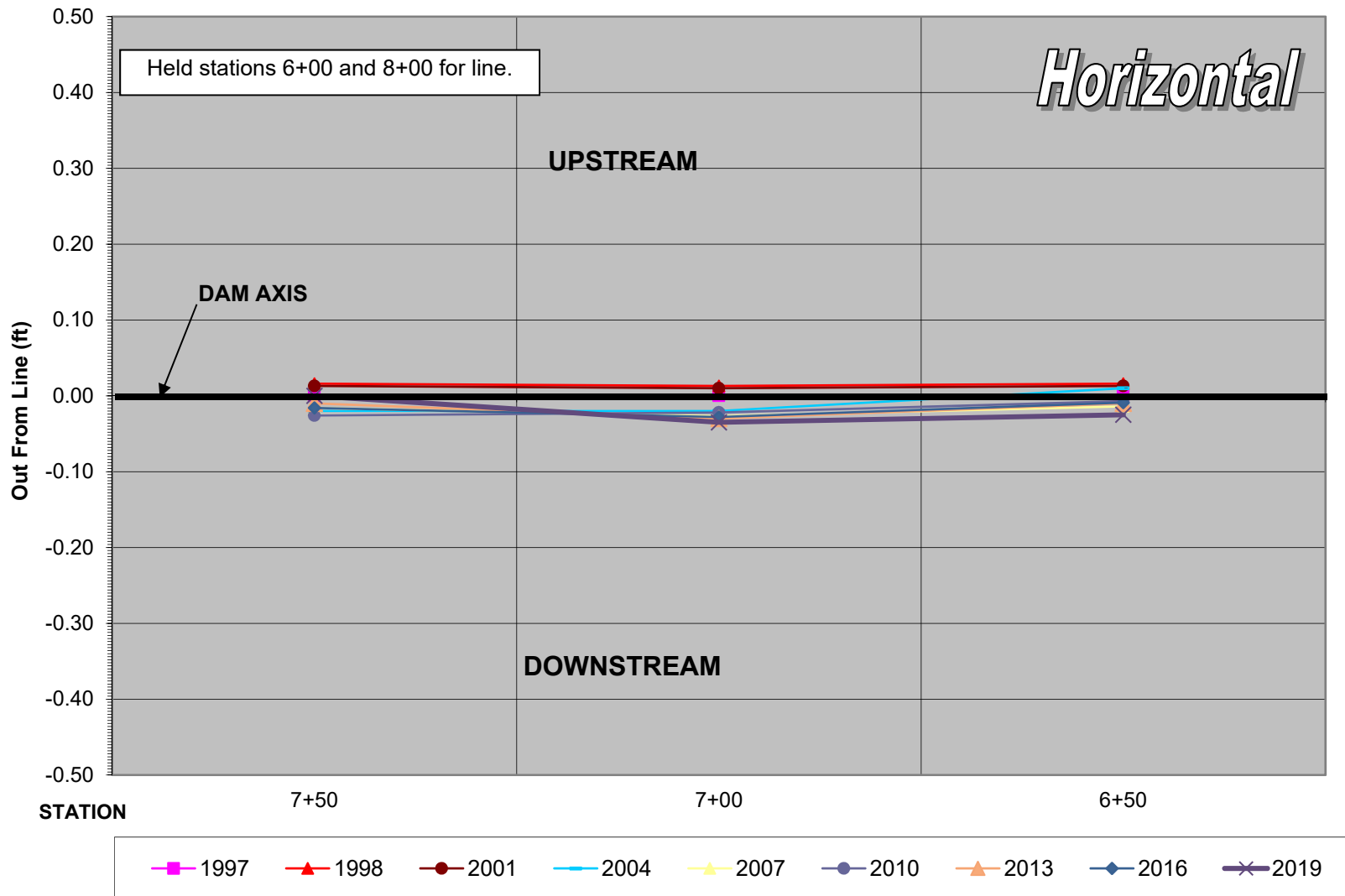
Report Summary

1997	Initial survey performed.
1998	All distances measured from station 6+00 differ from 0.02 to 0.03 feet. This could indicate that station 6+00 may be settling. Construction has being continual this past year for the Eastern Transportation Corridor. These differences are not significant but will be watched closely in the future.
2001	No significant movement. Dam monument elevations show settling trend. "Difference From Stationing" measurement for 7+00 is questionable.
2004	No significant movement. Difference from planned stationing are larger than expected.
2007	No significant movement. Difference from planned stationing are larger than expected.
2010	No significant movement.
2013	No significant movement.
2016	No significant movement.
2019	No significant movement.
2022	

Horizontal Datum = CCS83, zone VI, 1991.35 Epoch Adjustment

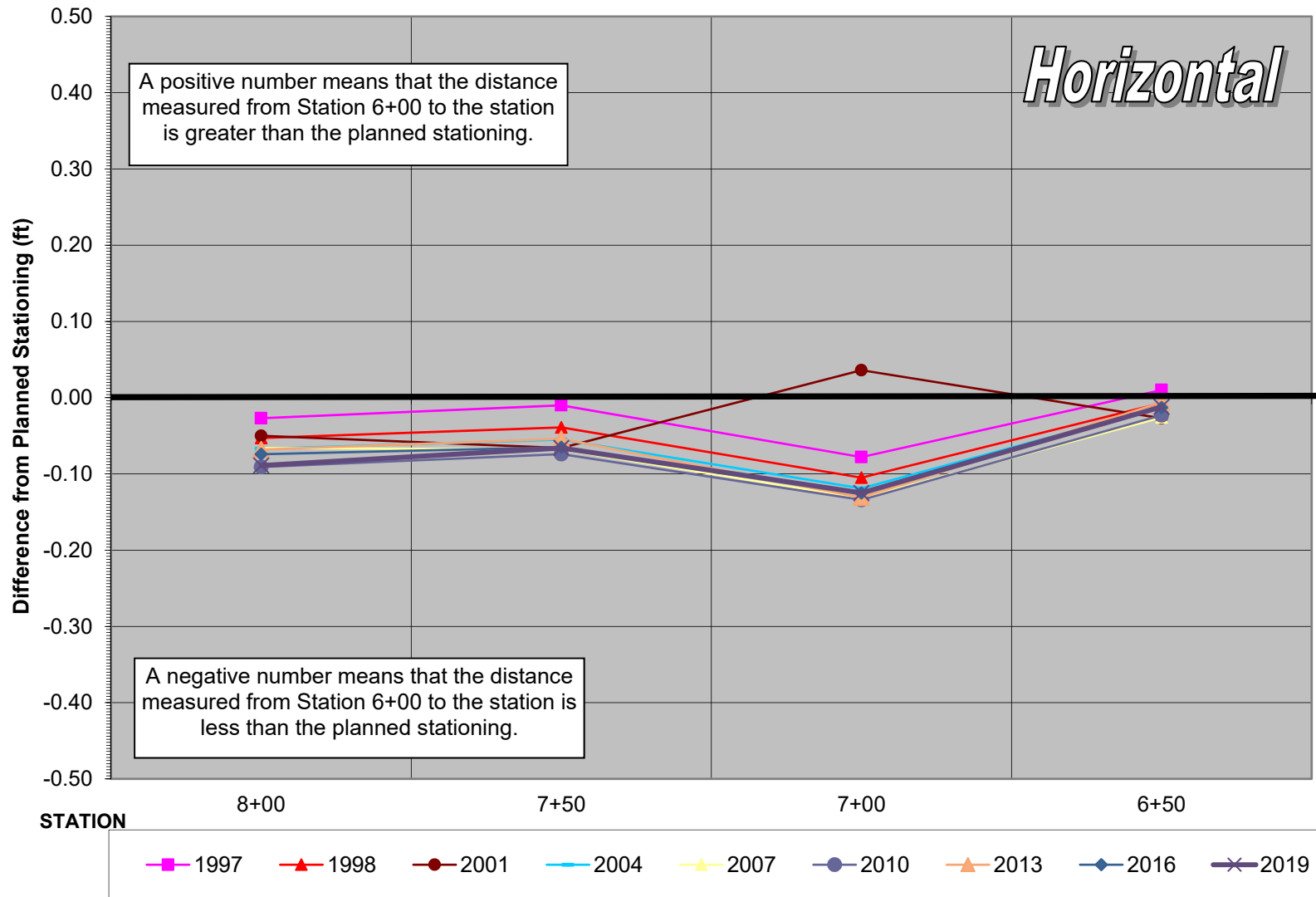
Vertical Datum = NAVD88, OCS 1995 Adjustment

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



Hicks Canyon Dam

Horizontal Movement Along Dam Axis (Difference from Planned Stationing)



Hicks Canyon Dam
Vertical Movement (Difference from 1997 Elevations) - Profile View - *Looking Upstream*

