




# Trabuco Retarding Basin

Monitoring Survey

## Legend

-  Benchmarks
-  Control Stations
-  Monitoring Stations



Google earth

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## **Trabuco Retarding Basin (F25B01) Monitoring Survey**

Seven survey monuments were set along the top of levee in 2001. This survey will be used as the "benchmark" for all future surveys.

### **Chart Details**

Seven monuments were three-dimensionally positioned utilizing GPS Static survey techniques. Because of the layout of the monuments, horizontal comparisons will be shown as differences in the northing and easting, instead of the station and offset method.

Vertical differences are calculated comparing the elevation to the "2001 survey" elevation.

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

All values are shown in U.S. Survey feet.

Horizontal Datum = CCS83, zone VI, 1991.35 Epoch Adjustment  
Vertical Datum = NAVD88, OCS 1995 Adjustment

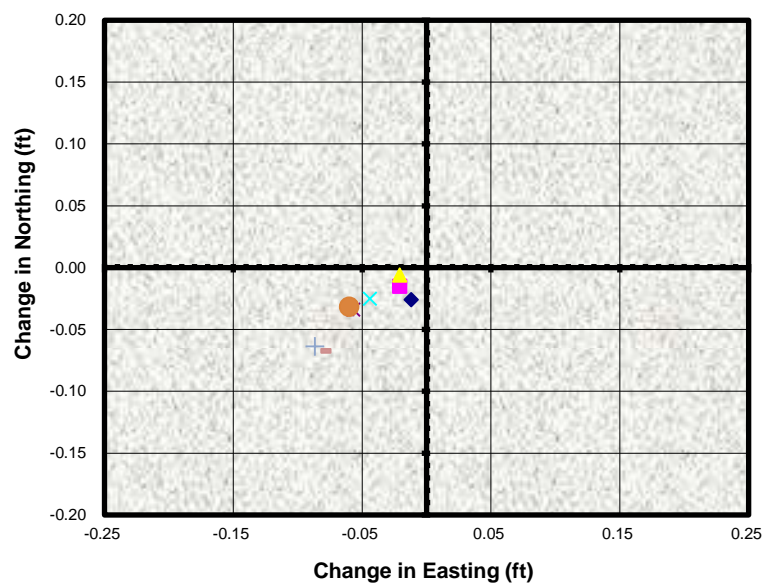
## **Trabuco Retarding Basin (F25B01) Monitoring Survey**

### **Report Summary**

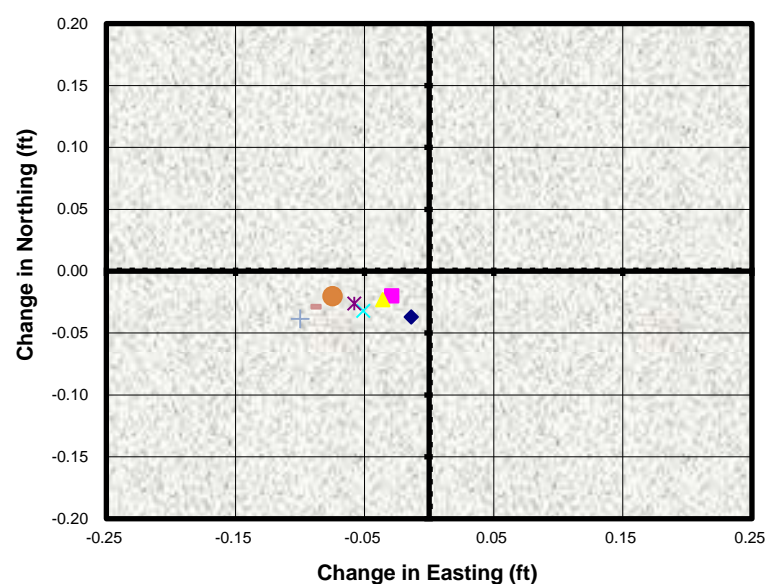
<b>2001</b>	Initial survey performed.
<b>2002</b>	No significant movement detected.
<b>2003</b>	No significant movement detected.
<b>2004</b>	No significant movement detected.
<b>2007</b>	No significant movement detected. GPS # 3774 appears to have disturbed by construction.
<b>2010</b>	GPS #3773 & #3776 were destroyed by construction.
<b>2013</b>	Set GPS #3764 & #3765 to replace monuments destroyed in 2010. No significant movement detected.
<b>2016</b>	GPS #3764 not found and removed from survey. Possible SW movement on GPS#3770.
<b>2019</b>	No significant movement detected.
<b>2022</b>	
<b>2025</b>	

# Trabuco Retarding Basin - (Horizontal) Horizontal Movement since 2001 Initial Survey

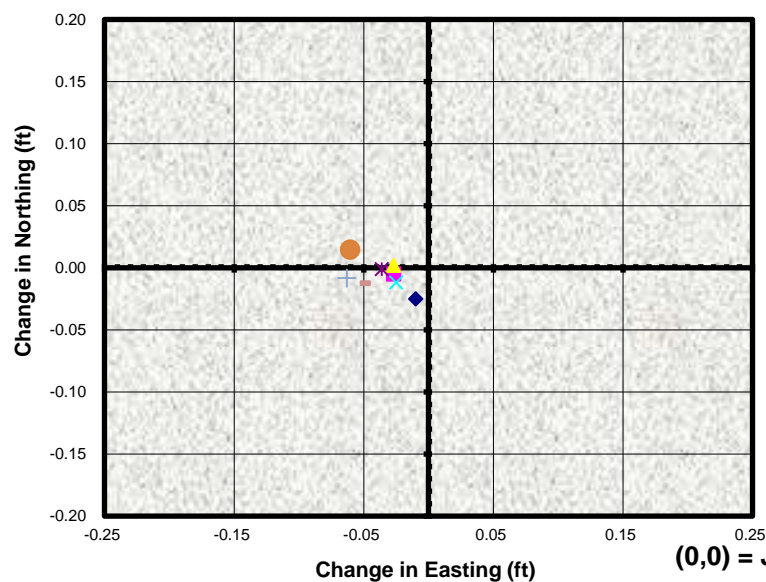
## GPS 3770



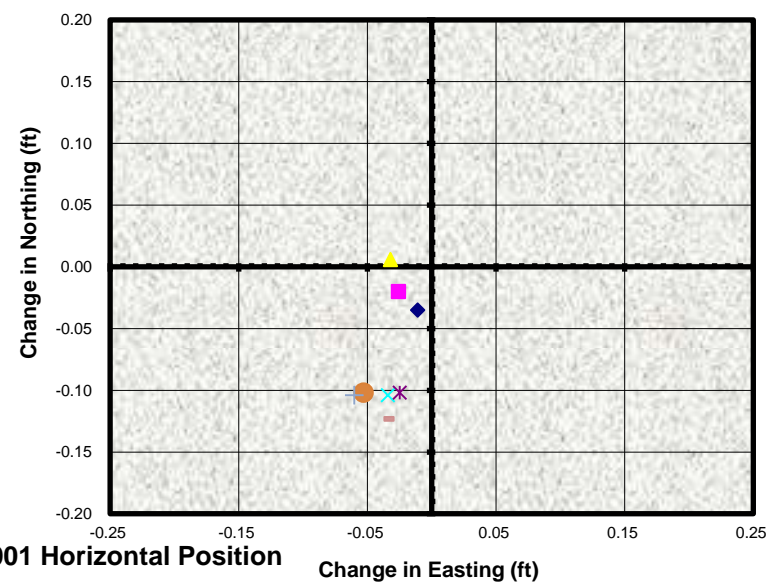
## GPS 3771



## GPS 3772



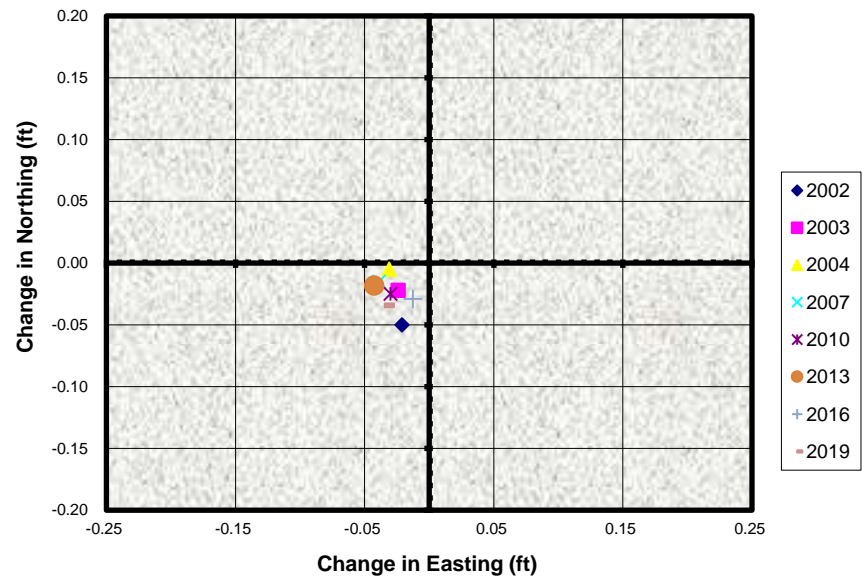
## GPS 3774



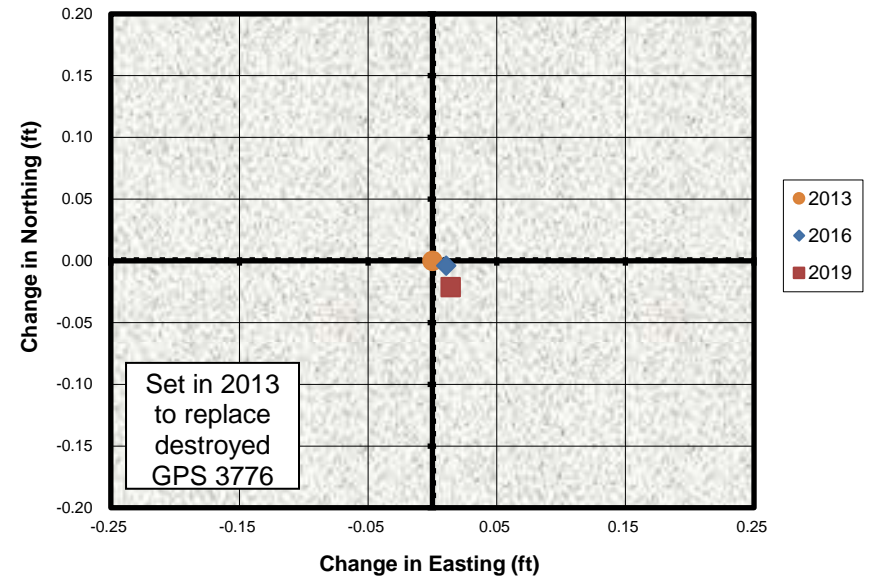
(0,0) = January 2001 Horizontal Position

**Trabuco Retarding Basin - (Horizontal)**  
**Horizontal Movement since 2001 Initial Survey**

**GPS 3775**



**GPS 3765**



**(0,0) = January 2001 Horizontal Position**

Trabuco Retarding Basin  
Vertical Movement (Orthometric Difference from 2001 Elevations)  
Profile View - Looking Upstream

