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#4407

December 1, 2015

Jay Gardner

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Dear Jay:

RSA+ has reviewed the information provided by NOAA at the web page: [www.ngs.noaa.gov/Tidal\\_Elevation/diagram.jsp?PID=JT9307&EPOCH=1983-2001](http://www.ngs.noaa.gov/Tidal_Elevation/diagram.jsp?PID=JT9307&EPOCH=1983-2001) (see next page)

We have determined the adjustment from the project's current National Geodetic Vertical Datum of 1929 (NGVD 29) elevation datum to the tidal values is -2.35 feet.

This information has been calculated as follows:

The station gauge reading of 0.21 feet is listed as "North American Vertical Datum of 1988" (NAVD 88) and represents an elevation of 0.00 feet.

The adjustment factor from NAVD 88 to NGVD 29 at the gauge location is -2.56 feet.

Therefore, in order to express the Tidal Gauge Readings in NGVD 1929, it will be necessary to subtract 2.77 feet from those elevations.

For instance, a gauge reading of 6.86 would result in an elevation of 4.09 feet NGVD 1929.

Please be aware that the tidal station gauge is located at Third Street in Napa and the eye bolts are miles downstream of this station. You may wish to consider an additional reduction in the tidal elevation based on recent observations. However, the downtown values presented will generate a more conservative value.

Please let me know if you have additional questions.

Respectfully,

*Christopher M. Tibbits*  
Christopher M. Tibbits, LS

RCE 59361 / PLS 8585



12/1/15

## Tidal Elevations

Units: Feet

PID: JT9307

VM: 8702

Station: 9415623, TIDAL 5, NAPA, CA

Epoch: 1983-2001

Description: Bench Mark Disk in top of granite basement wall at East corner of post office at the intersection of Second and Randolph Streets

Datum	Value	Description
MHHW	6.86	Mean Higher-High Water
MHW	6.38	Mean High Water
MSL	3.82	Mean Tide Level
MTL	3.71	Mean Sea Level
NGVD 1929	2.78	National Geodetic Vertical Datum of 1929
MLW	1.03	Mean Low Water
NAVD 1988	0.21	North American Vertical Datum of 1988
MLLW	0.00	Mean Lower Low Water

To refer water level heights to NAVD88 (North American Vertical Datum of 1988), apply the values located at National Geodetic Survey.

### ELEVATION INFORMATION

PID: JT9307  
 VM: 8702  
 STATION ID: 9415623  
 EPOCH: 1983-2001  
 DATE: Tuesday, December 1, 2015 12:47:26 PM EST

