Sonoma Water

Russian River Estuary Management Project

PPFC Meeting April 22,2019

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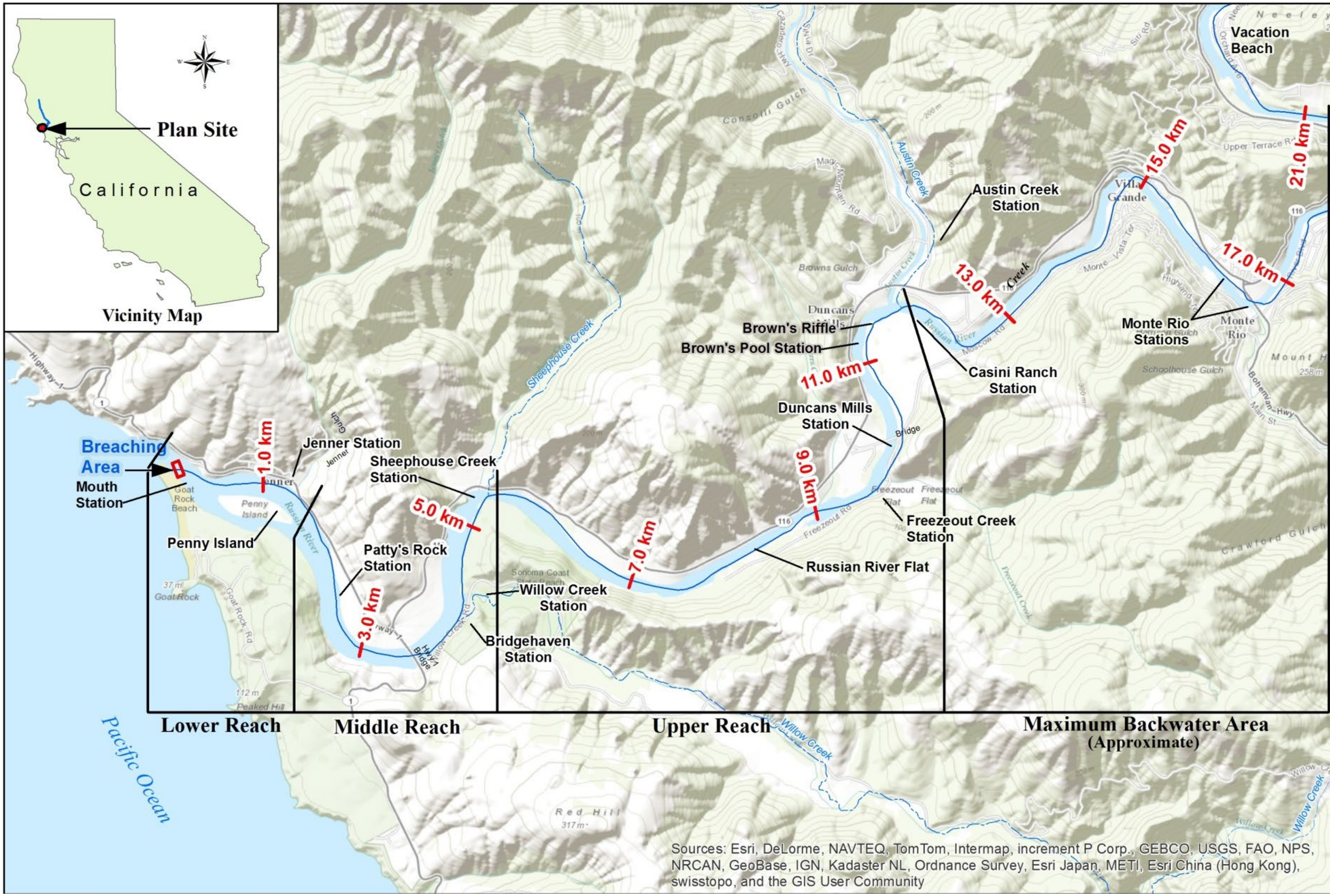
Environmental Resources Manager

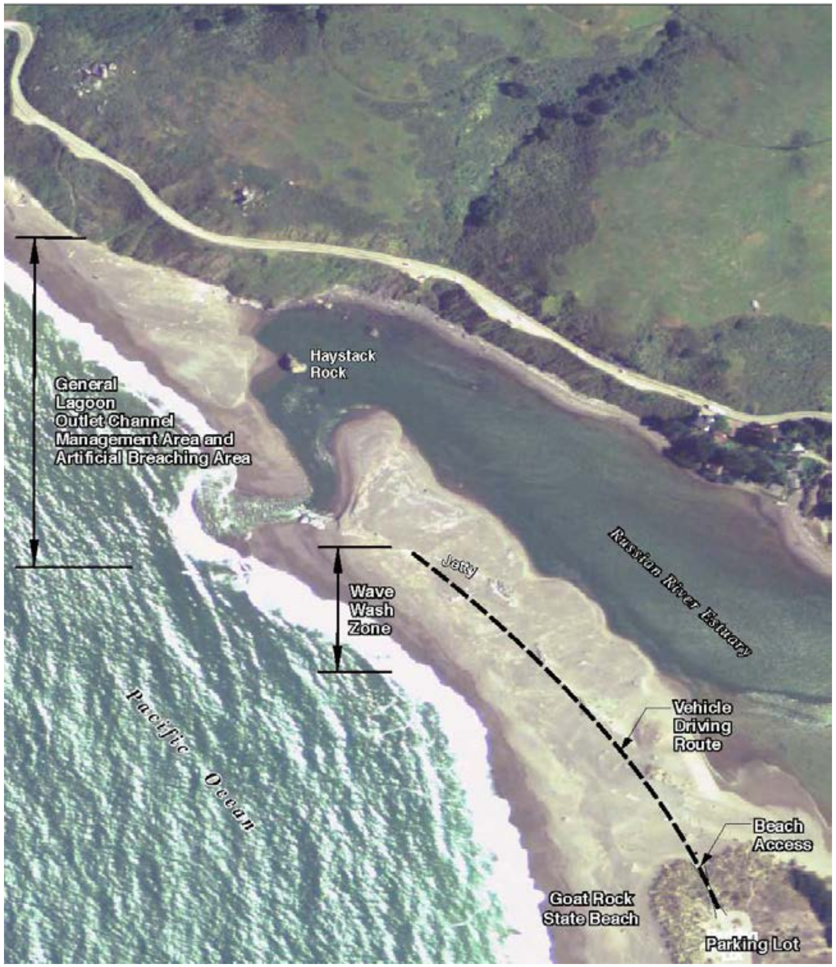
sonomawater.ca.gov



Sonoma Water

Flood Risk Management

Beach Management Activities

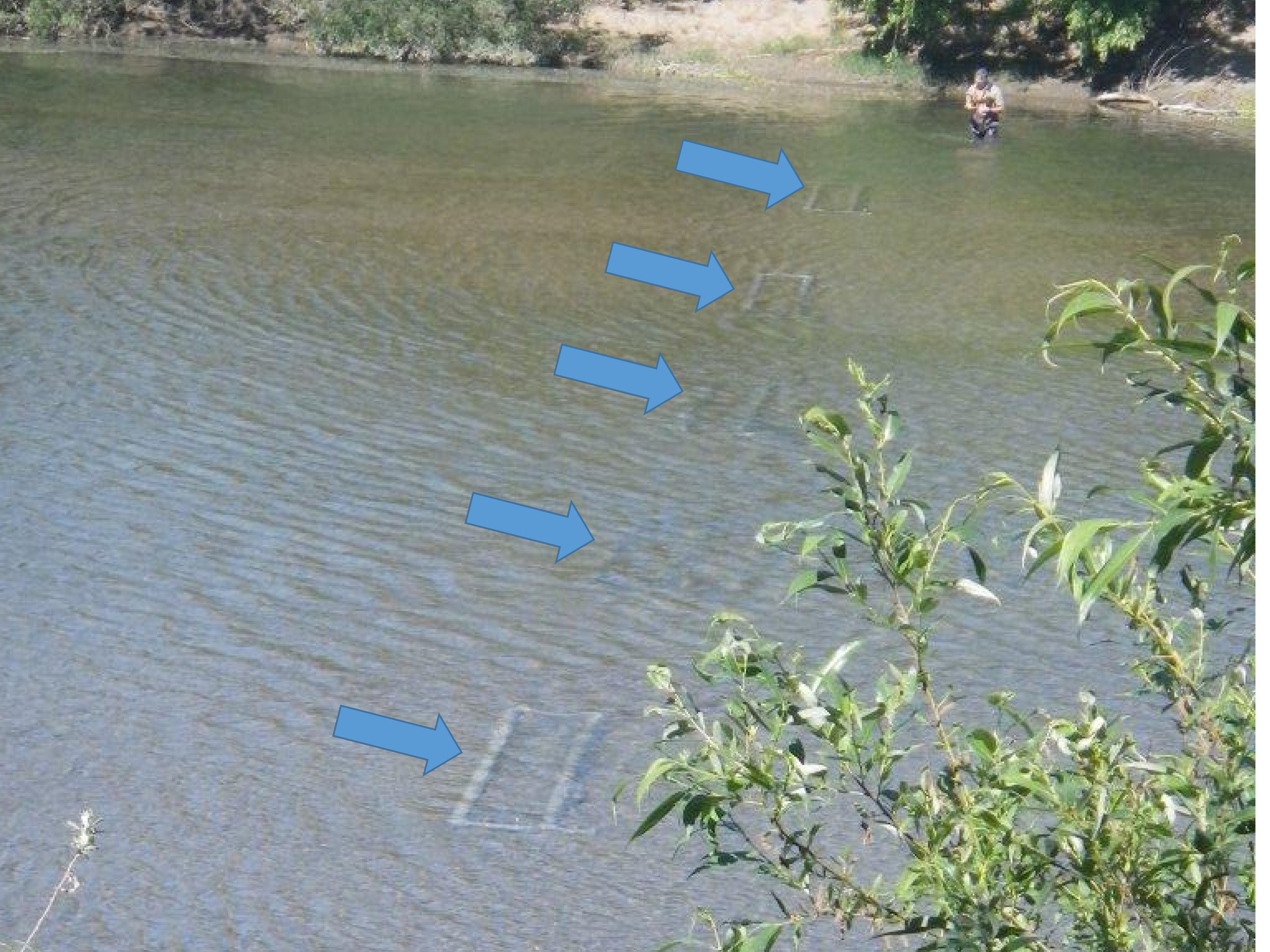


Artificial breach

Outlet channel

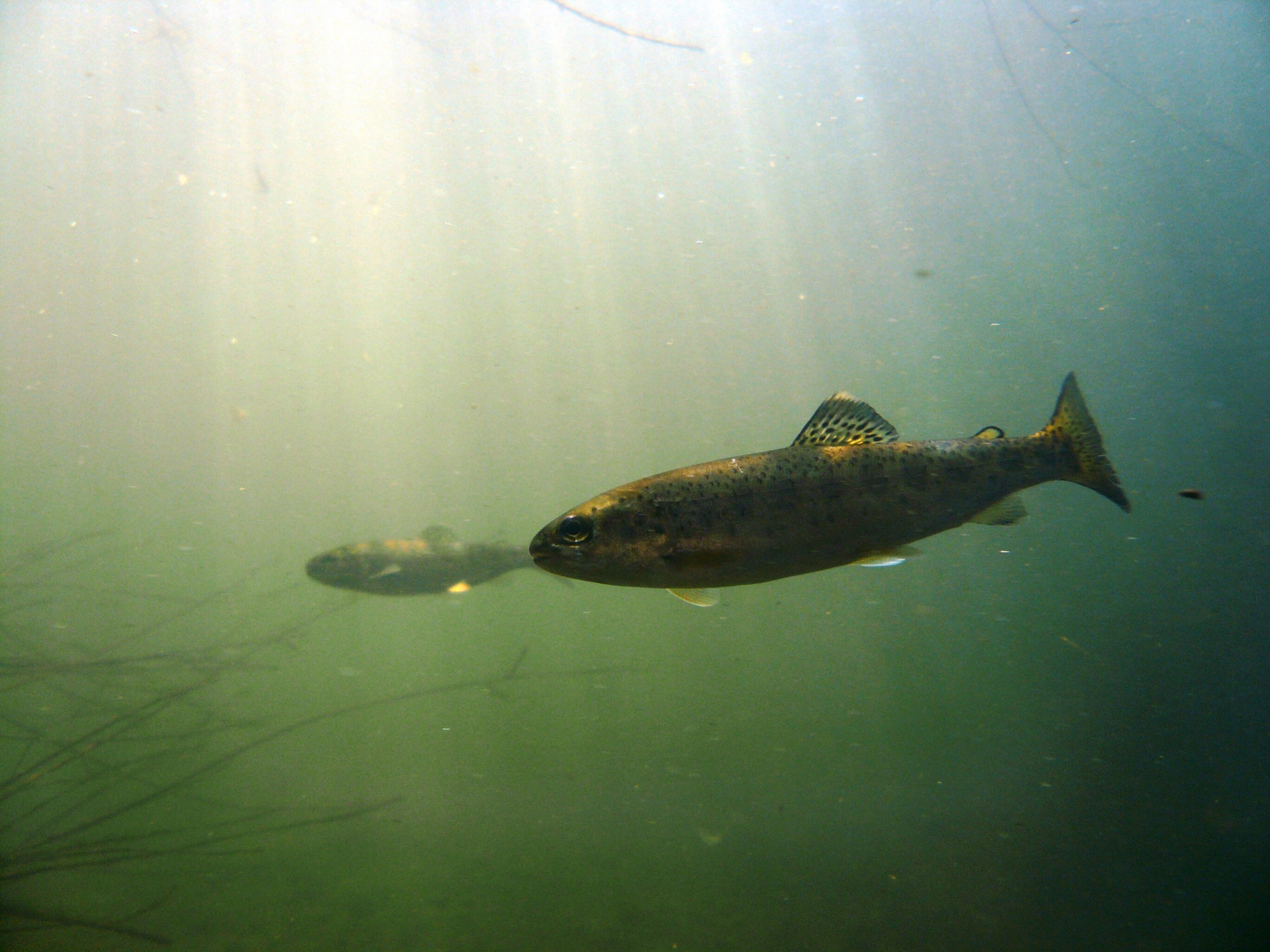
Sonoma Water


OUT




Sonoma County Water Agency
Biomark.
MENU


Seghesio

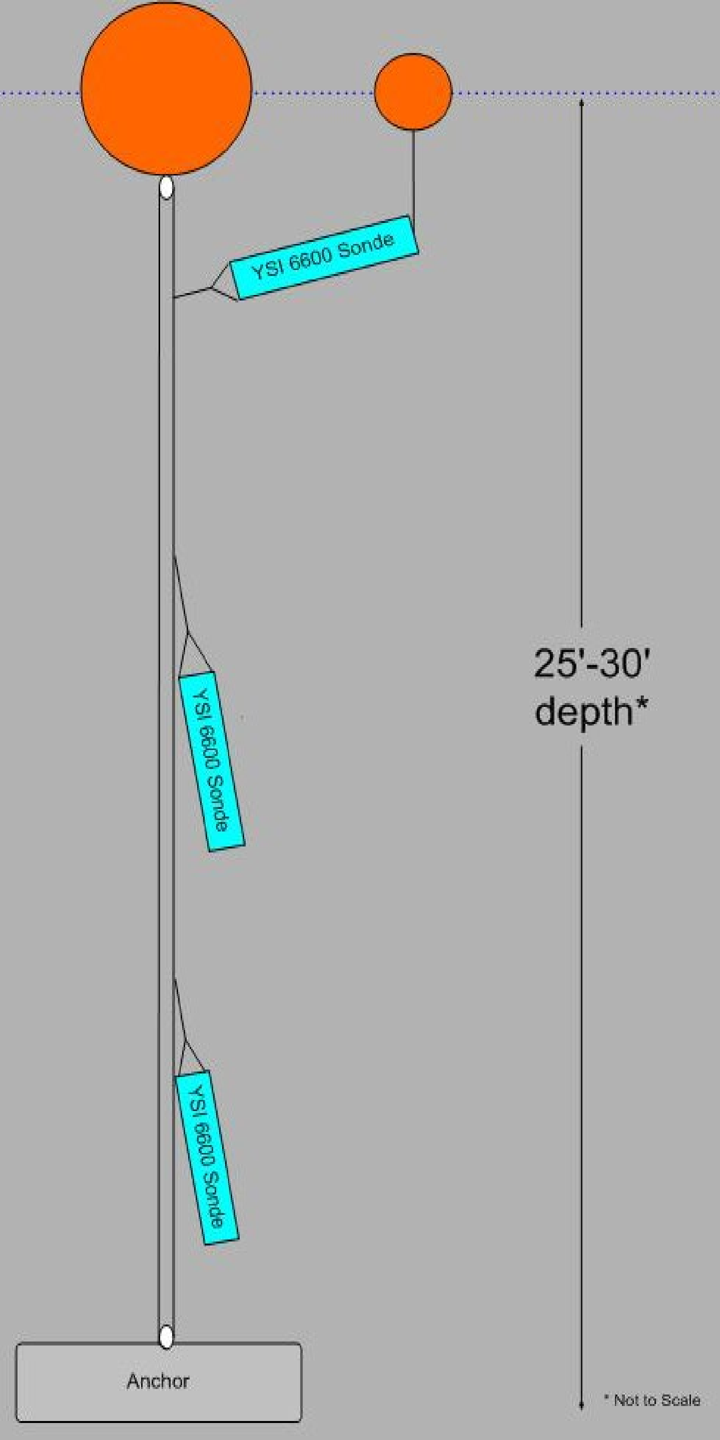


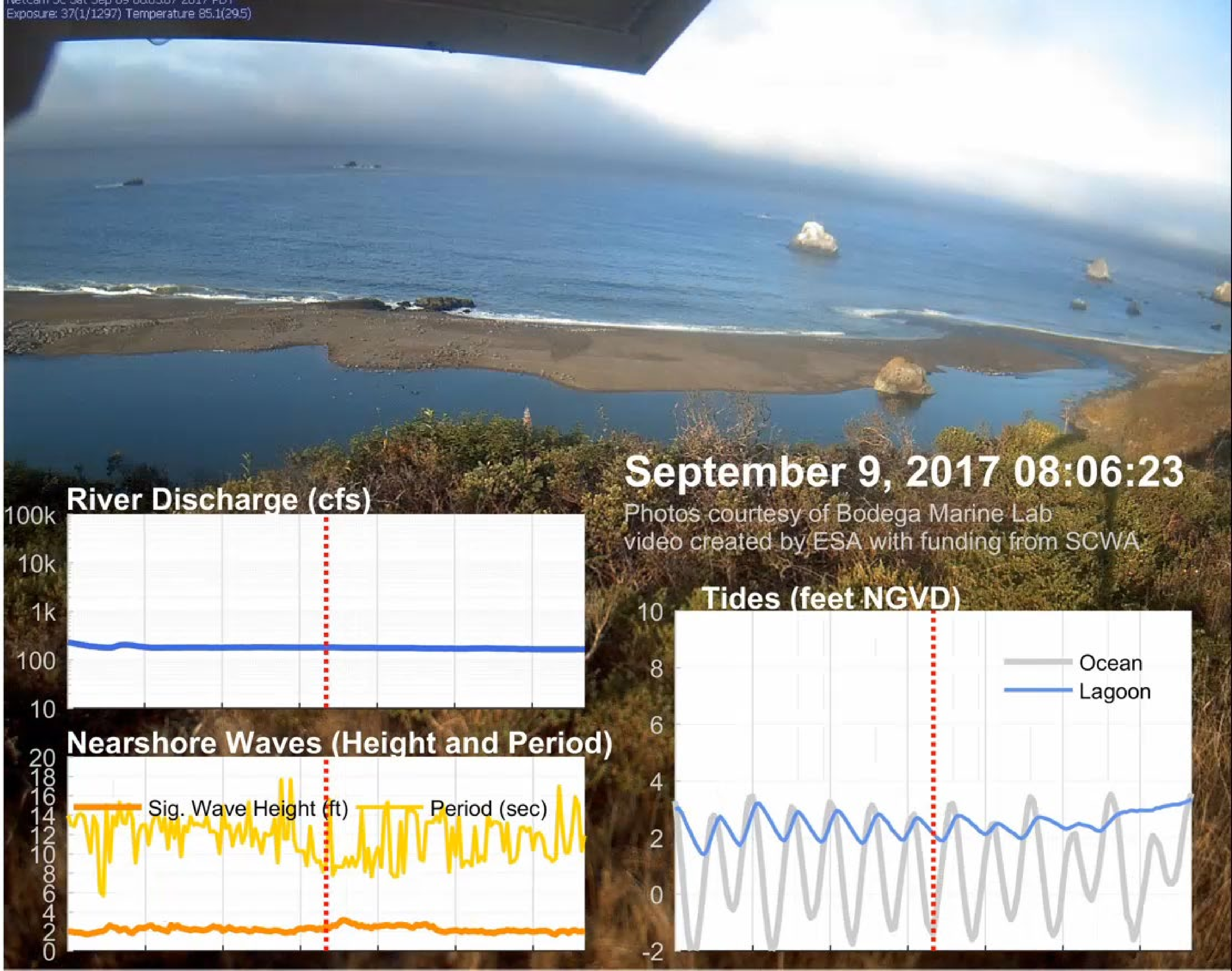


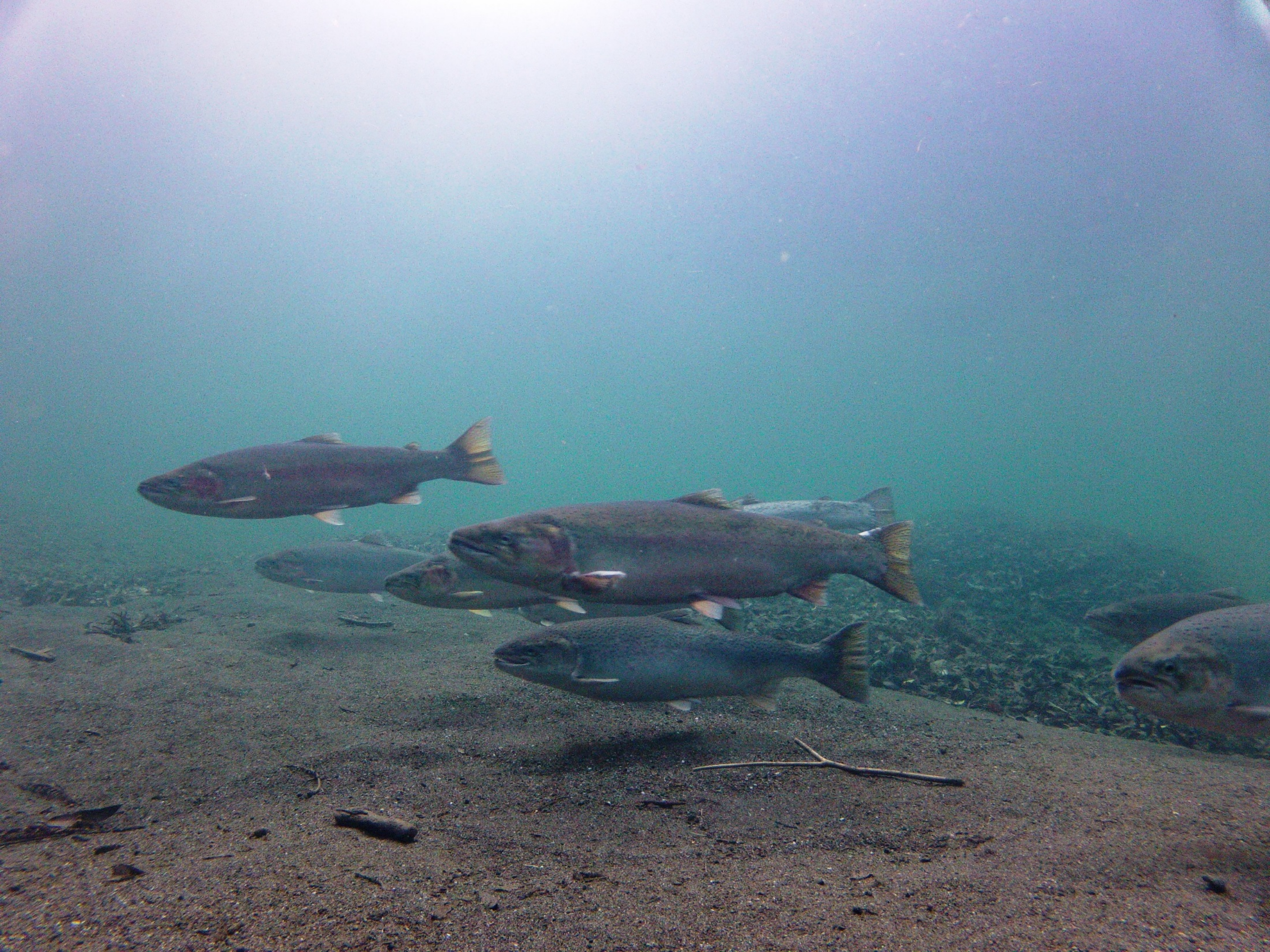
MERCURY
CF 0379 RW


Location Jenner Date 10/19/2011
Species STHD Marks Sex M F
Length 317 Weight 385.5
Comments: Scales
3D9.1C2D58FEA2
Recap JG8


Aqua Bound

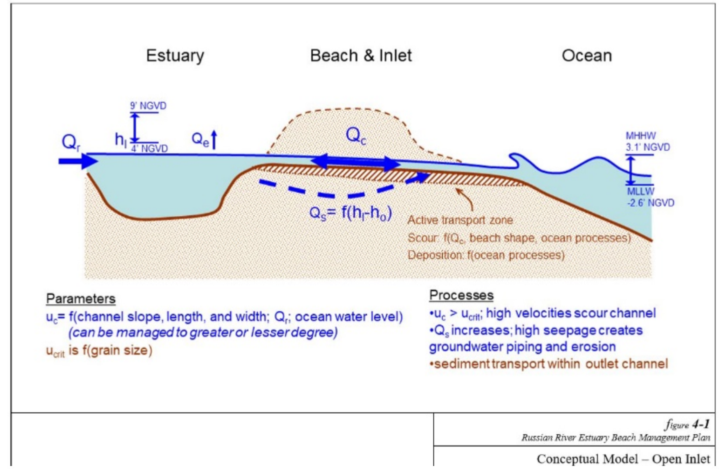

YSI 6600 Sonde
YSI 6600 Sonde
YSI 6600 Sonde
25'-30'
depth*
Anchor
* Not to Scale

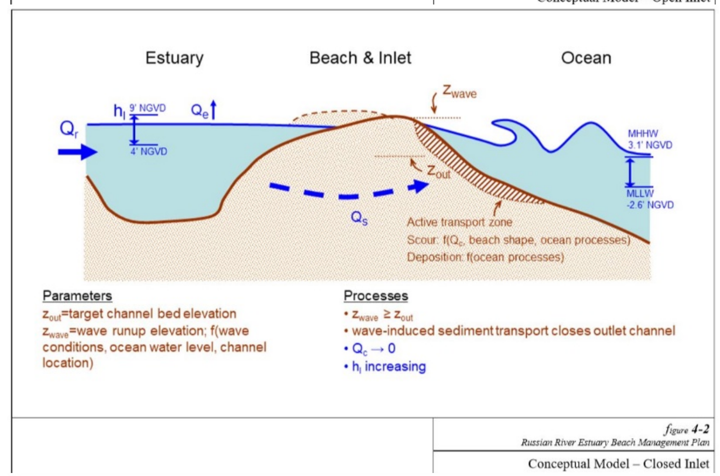

Exposure: 37(1/1297) Temperature 85.1(29.5)
September 9, 2017 08:06:23
Photos courtesy of Bodega Marine Lab
video created by ESA with funding from SCWA
River Discharge (cfs)
100k
10k
1k
100
10
Nearshore Waves (Height and Period)
20
18
16
14
12
10
8
6
4
2
0
Sig. Wave Height (ft)
Period (sec)
Tides (feet NGVD)
10
8
6
4
2
0
-2
Ocean
Lagoon

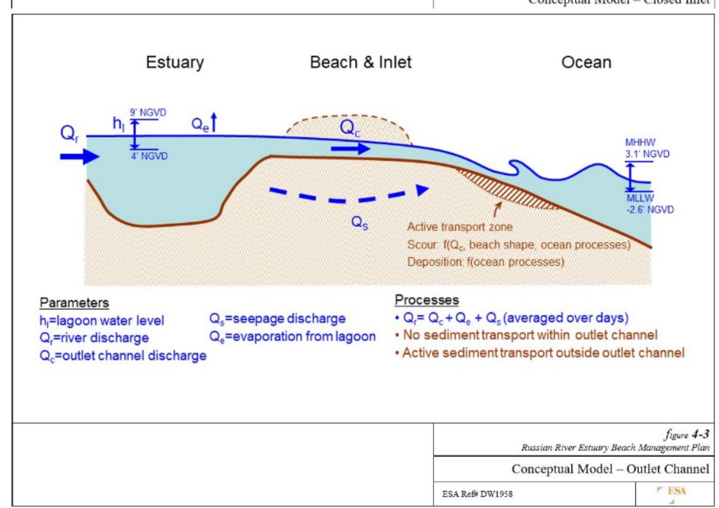


Adaptive Management Plan

- Draft 2019 update
  - Conceptual model
  - Juvenile salmonid habitat conditions



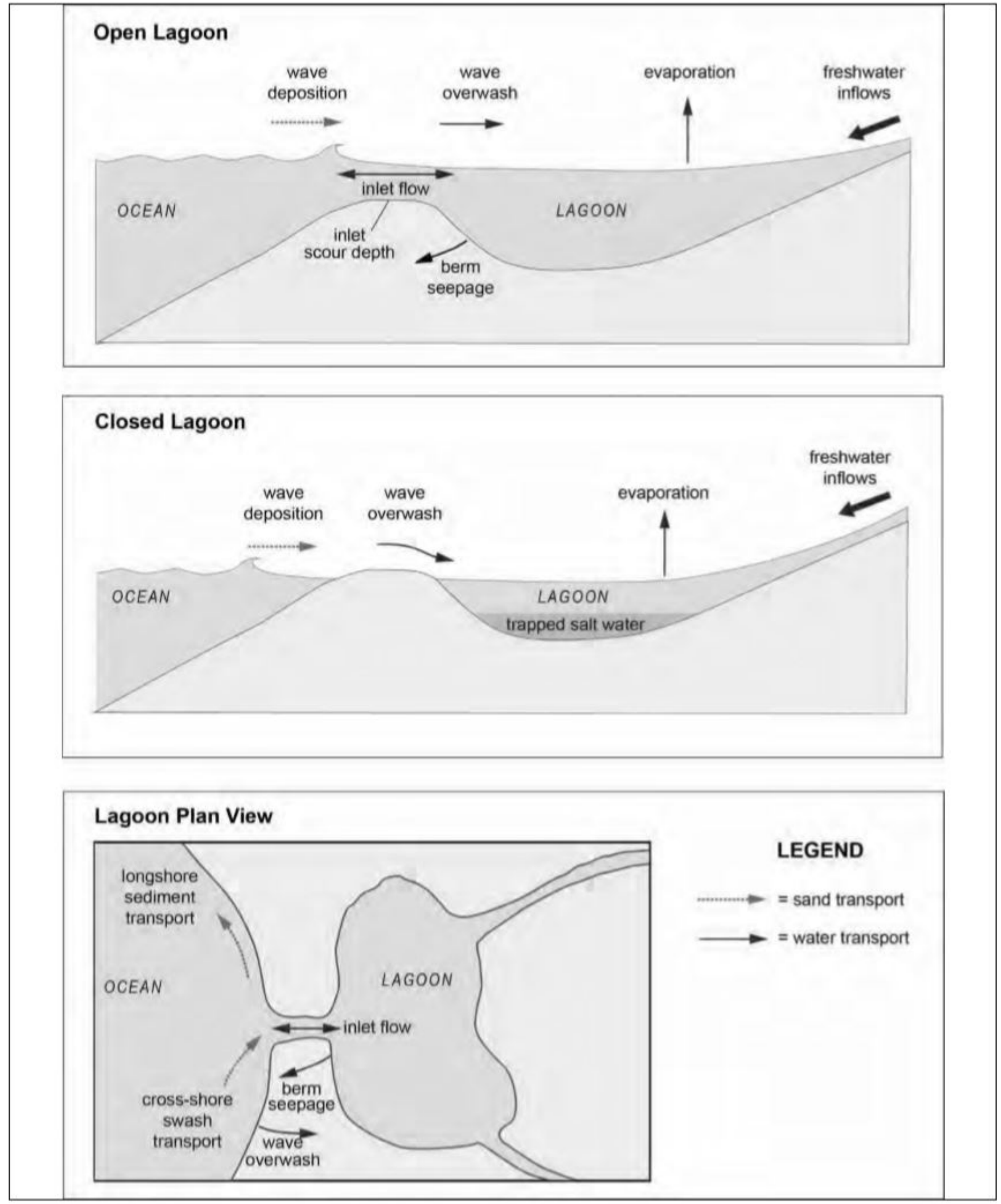




Sonoma Water

Beach Morphology

- Waves
- Inflows
- Seepage



SOURCE: B. Evans illustration

Goat Rock Jetty Feasibility Study . D211669.00

Figure 6-1

Schematic of the dominant processes affecting lagoon hydrology.

Sonoma Water

Rearing Habitat

- Prey available
- Water quality affects juvenile salmonid habitat quality
  - Water temperatures
  - Dissolved oxygen
  - Salinity

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sonomawater.org