

Development of the Copeland Creek Information Hub

GEP 396 Water Research Methods, Sonoma State University

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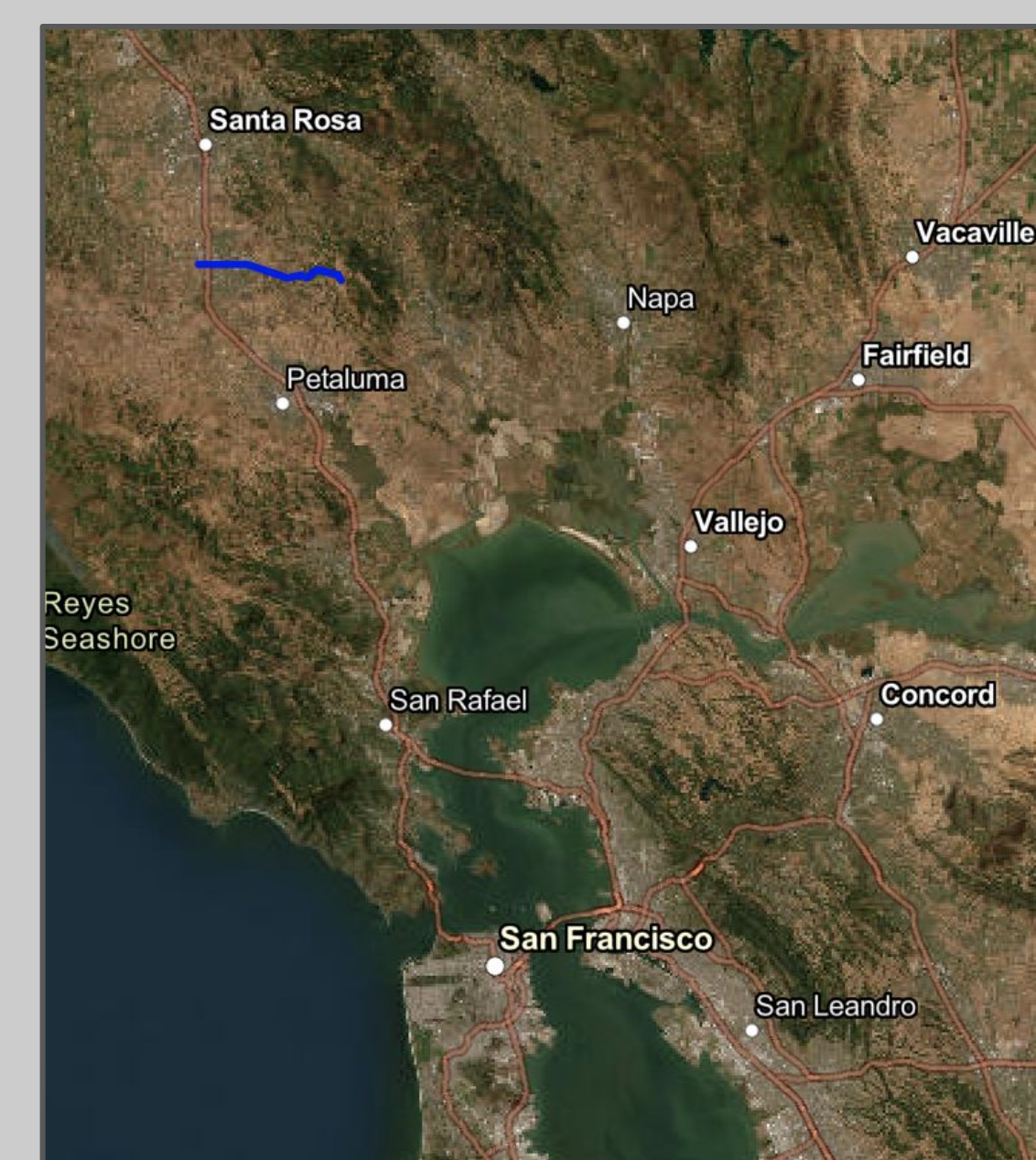
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Introduction

Copeland Creek is a 9 mile long perennial creek that passes through the Sonoma State University campus. **The goal of this project is to create a digital Copeland Creek Information Hub where students, faculty, community members, and local agencies can access all known information about the creek in one place.** It contains information about current and past research projects organized by topic as well as restoration activities. We have begun monitoring human use of the campus Copeland Creek walking trail. We have been mapping riparian plant distribution and using wildlife cameras to monitor animals found along the creek. We established a water quality monitoring program that tests temperature, pH, conductivity, total dissolved solids, and dissolved oxygen levels in two creek locations on campus as well as in one of the campus ponds. This data is updated regularly and displayed on the Copeland Creek Information Hub's Interactive Dashboard.



Copeland Creek Interactive Map

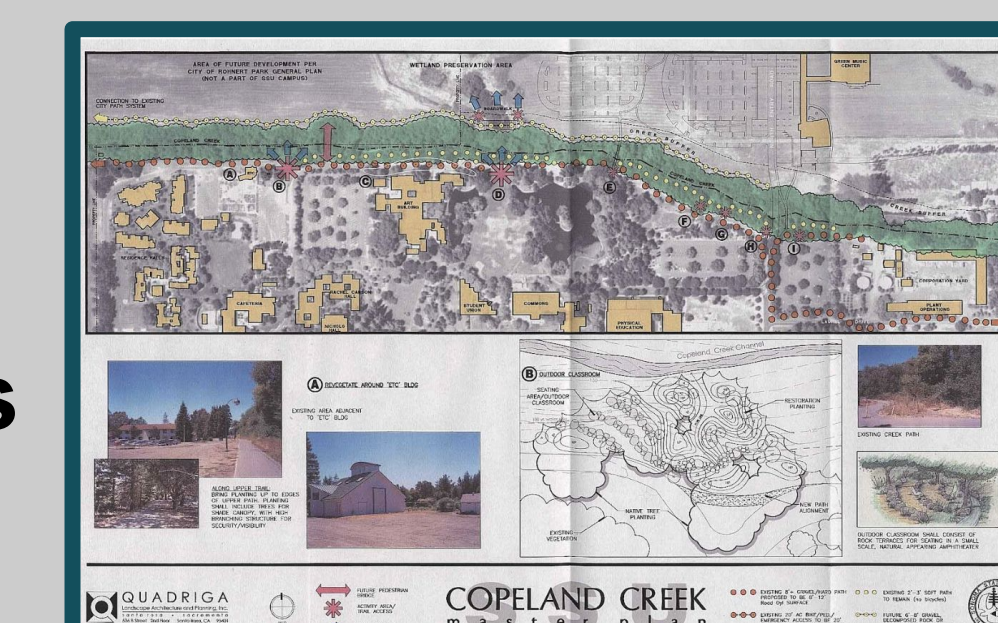
scan the QR code ↓

Copeland Creek Information Hub

[Interactive Dashboard](#) [Copeland Creek Map](#) [Past Research Projects](#) [Restoration](#) [Human Activity](#) [Plant and Animal Distribution](#) [Useful Resources](#)

Research Projects

Past and present protocols, reports, data, and historical documents about Copeland Creek organized by topic



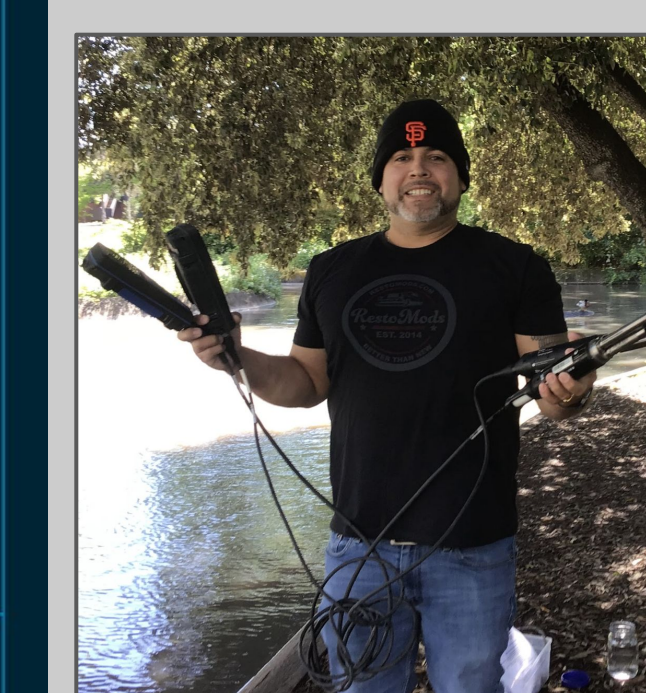
Human Use of Copeland Creek

We have begun a monitoring program to track human uses and impacts



Animals

We have set up wildlife cameras at three locations where the creek passes through the SSU campus



Restoration

Information about past and present restoration projects



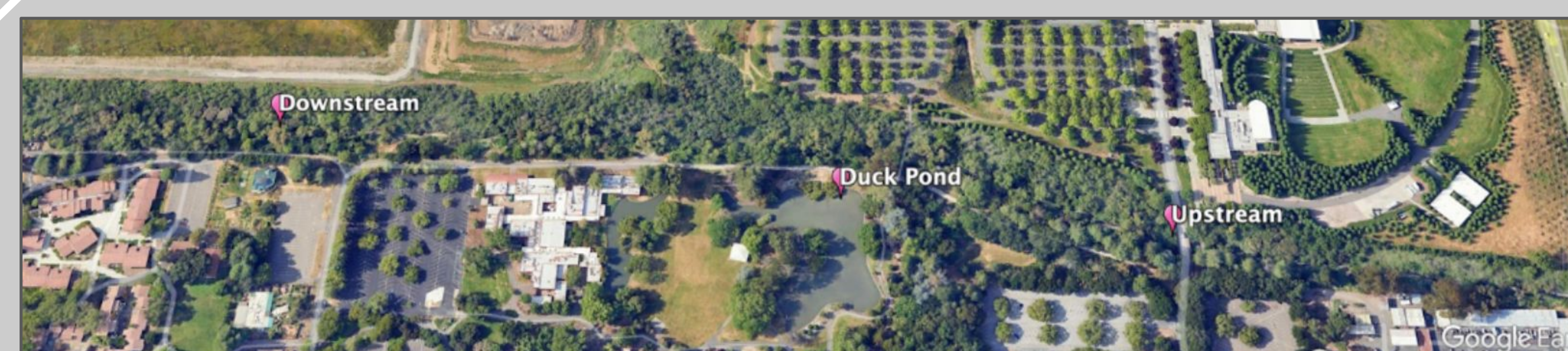
Plants

Interactive maps and lists of native and invasive plant species



Monitoring Water Quality

The map below shows three locations where we are monitoring temperature, pH, conductivity, total dissolved solids, and dissolved oxygen levels. The most recent results are displayed on the on-line Interactive Dashboard. A spreadsheet containing historical data opens when clicking on the dashboard text.



Interactive Dashboard

Explore our most recent water measurements of the Copeland Creek Corridor

Temperature

Upstream - 18.3 °C

Downstream - 18.0 °C

Duck Pond - 18.9 °C

T/D Last Meas. 3:30pm - 04/13/2026

pH

Upstream - 7.8

Downstream - 7.3

Duck Pond - 7.9

T/D Last Meas. 3:30pm - 04/13/2026

Conductivity

Upstream - 342 µs/cm

Downstream - 623 µs/cm

Duck Pond - 440 µs/cm

T/D Last Meas. 3:30pm - 04/13/2026

Total Dissolved Solids

Upstream - 245 ppm

Downstream - 443 ppm

Duck Pond - 313 ppm

T/D Last Meas. 3:30pm - 04/13/2026

Dissolved Oxygen

Upstream - 8.8 mg/L

Downstream - 8.9 mg/L

Duck Pond - 7.7 mg/L

T/D Last Meas. 3:30pm - 04/13/2026

Flow Rate

From USGS Monitor 11465660 - 35

cf/s T/D Last Checked. 1:00pm -

04/21/2026

Gauge Height

From USGS Monitor 11465660 -

3.7ft

T/D Last Checked. 1:00pm -

04/21/2026

[Click HERE for our water quality monitoring protocols and reports](#)

Click on the text in any box to access more information, orange text will take you to detailed spreadsheet data!