

Salmon Creek Summary Report 2004

Community Clean Water Institute

6741 Sebastopol Ave. Ste. 140

Sebastopol, CA 95472

(707) 824-4370 www.ccsi.org

Thank you for your interest in the health of your watershed!

The data in this report was collected by: Carol Sklar, Lucinda Dekker, Margaret Gerner, Noel Bouck, Beth Trachtenberg, Bob Nelson, Darlene Lamont, and CCWI staff as part of Community Clean Water Institute's Citizen Monitoring Program. For more information, contact Community Clean Water Institute at (707) 824-4370, or info@ccwi.org.

About Citizen Monitoring:

Citizen monitoring is monitoring of the environment by community volunteers interested in watershed protection. By monitoring local creeks and rivers, citizen monitors learn about their watershed, help pinpoint pollution sources, and identify widespread problems. The data can provide the information needed to develop restoration projects or pollution prevention measures.

Community Clean Water Institute (CCWI) is dedicated to promoting and protecting clean water and public health by identifying water pollution, advocating for sound water policies, and providing information to the public. CCWI works with citizen groups to develop and support citizen monitoring programs.

CCWI Permissions to Use Data:

The data in this report is intended to be used for informational and educational purposes. According to CCWI's Data Permissions Policy, Watershed Groups, Regulatory Agencies, and others interested in the protection of clean water are permitted to use data collected by CCWI under the following conditions:

- 1) All public use of data must be accompanied by the words, "This data was collected by Community Clean Water Institute. For more information, check www.ccwi.org."
- 2) Data may not be used for the purpose of litigation or lawsuits.

Site Descriptions:

TAN030: In Occidental, off Jennifer Lane at the bridge where the trail starts

FAY040: In Occidental, 17300 Taylor Rd

SAL040: Salmon Creek School in front of the parking lot adjacent to Bohemian Hwy

SAL060: Salmon Creek at 15400 Bittner Rd at headwaters

WES010: Westwood Creek at Bittner Rd

THU030: 16444 Joy Woods Way

Sampling Conditions:

TAN030 & FAY040

Date	Time	Air Temp (C)	Weather
01/06/04	10:15 AM	7.6	Overcast
02/03/04	1:15 PM	9.8	Rain
03/02/04	9:45 AM	7.5	Sunny Recent Rain
04/06/04	9:20 AM	9	Partly Cloudy
05/04/04	9:20 AM	16	Sunny
06/01/04	11:28 AM	22.5	Sunny
07/06/04	1:30 PM	9.5	Partly Cloudy
08/03/04	9:30 AM	16	Overcast
09/07/04	10:00 AM	21	Sunny
10/05/04	9:30 AM	12	Overcast
11/03/04	11:20 AM	10	Partly Cloudy
12/07/04	9:15 AM	13	Overcast Recent Rain

Salmon Creek

Date	Time	Air Temp (C)	Weather
01/08/04	3:00 PM	9	Cloudy Recent Rain
02/04/04	2:00 PM	12	Cloudy Recent Rain
03/03/04	12:30 PM	9.5	Overcast Recent Rain
04/08/04	9:30 AM	9.5	Sunny
05/05/04	11:30 AM	15	Sunny
06/02/04	11:00 AM	17.5	Sunny
07/07/04	2:05 PM	15.5	Overcast
08/04/04	11:00 AM	16	Sunny
09/08/04	11:00 AM	14	Sunny
10/06/04	10:00 AM	14	Sunny
11/03/04	11:00 AM	11	Cloudy
12/08/04	10:20 AM	13.5	Overcast Recent Rain

Statistical Analysis Definitions:

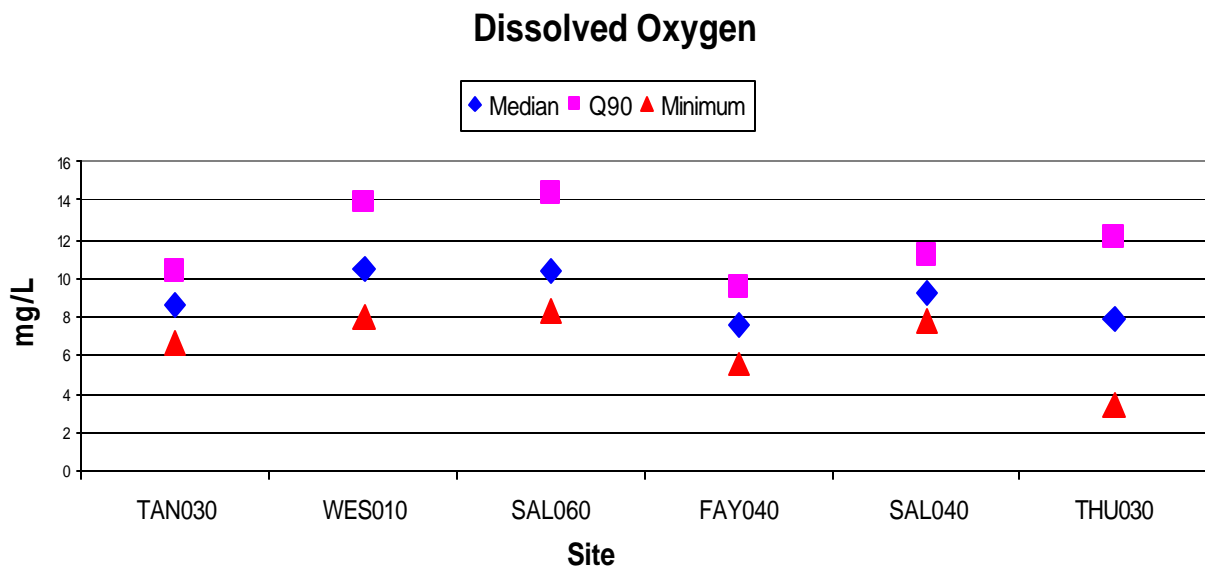
Outliers: anomalous values in the data, the unusually high or low numbers in a data set

Median: the middle of a distribution, half the data is above the median and half below. The median is used instead of the mean or average because it is less sensitive to outliers

Q90: the 90th percentile, means that 90% of the data falls below this number. The Q90 is used to eliminate the higher outliers

Minimum: the lowest number in the data set

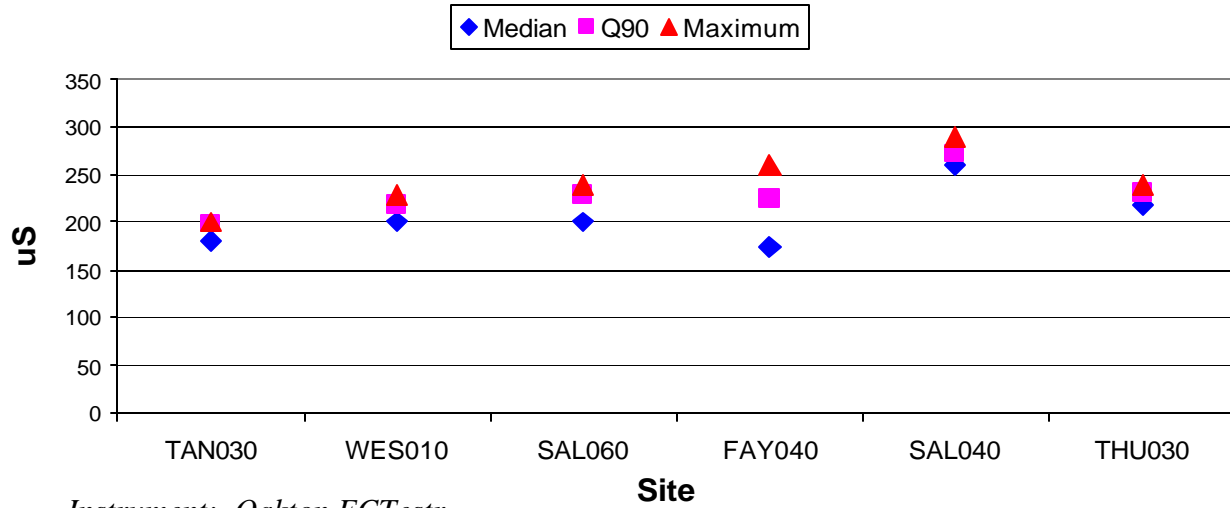
Maximum: the highest number in the data set



Instrument: ICM Portable Dissolved Oxygen Meter

The highest dissolved oxygen levels were found at WES010 with a median of 10.5 mg/L and a Q90 of 13.9. The lowest levels were at FAY040 with a median of only 7.5 mg/L and a Q90 of 9.5.

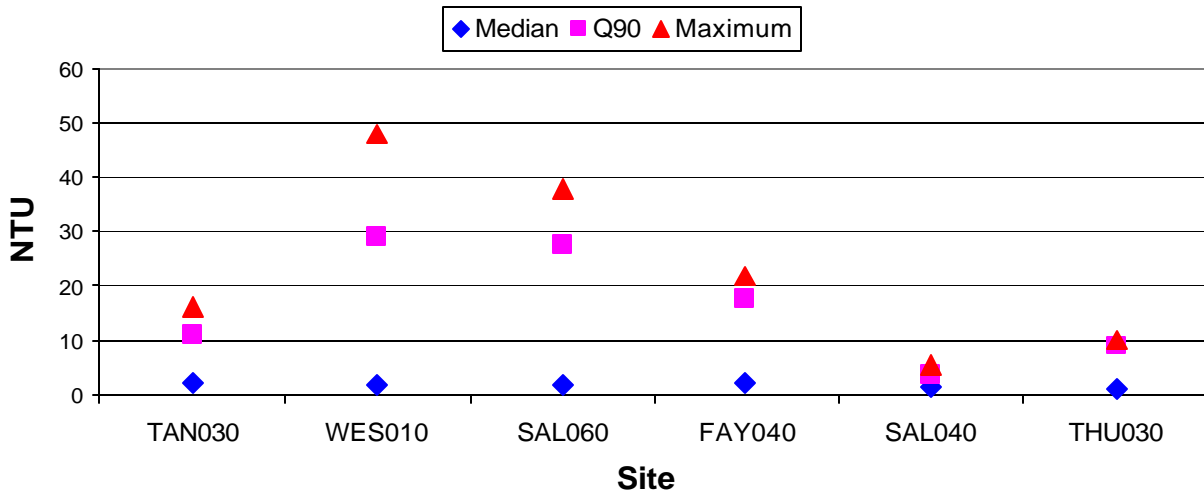
Conductivity



Instrument: Oakton ECTestr

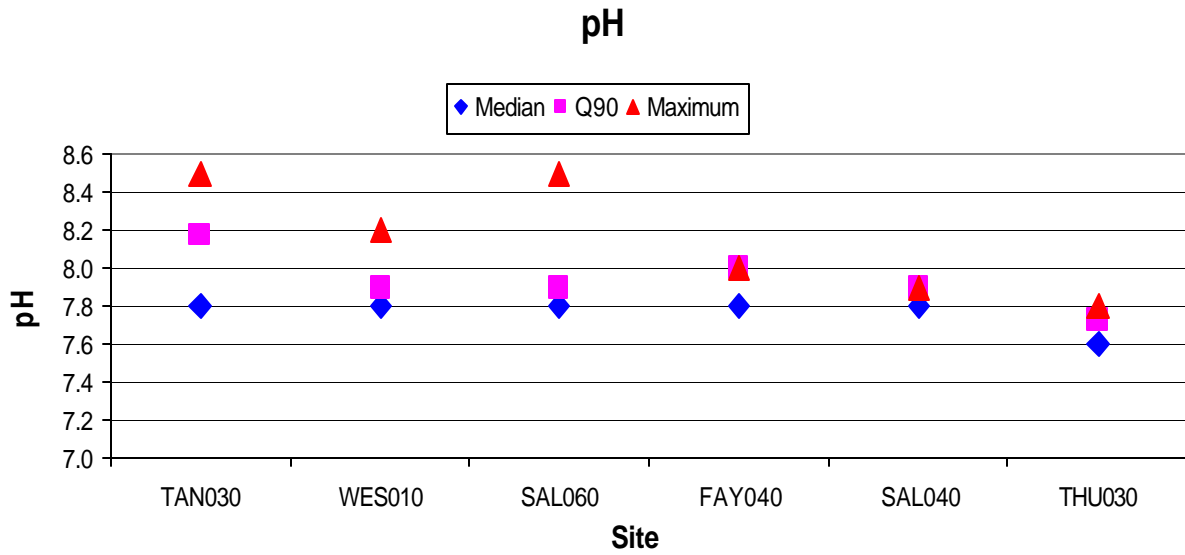
SAL040 had the highest conductivity readings with a median of 260 uS and a maximum of 290. The lowest conductivity was found at FAY040 with a median of only 175 uS and a max of 260.

Turbidity



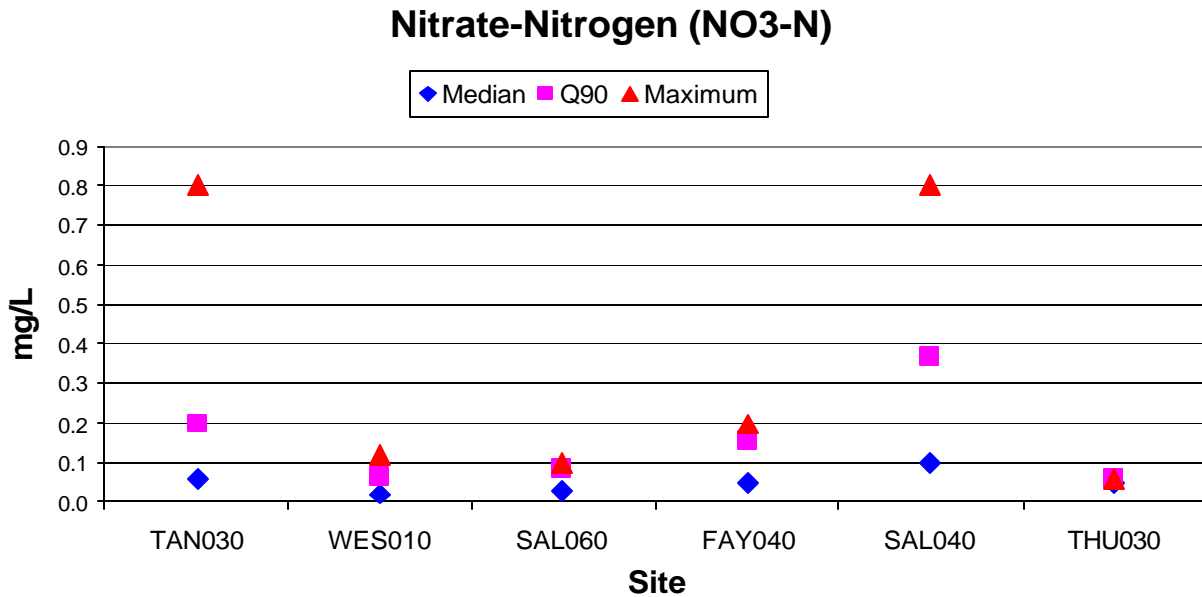
Instrument: Hach 2100P Turbidimeter

TAN030 had the highest median turbidity of 2.16 NTU, but WES010 had the highest Q90 of 28.8 NTU and the highest maximum of nearly 48 NTU. THU030 had the lowest measurements with a median of 1.21 NTU.



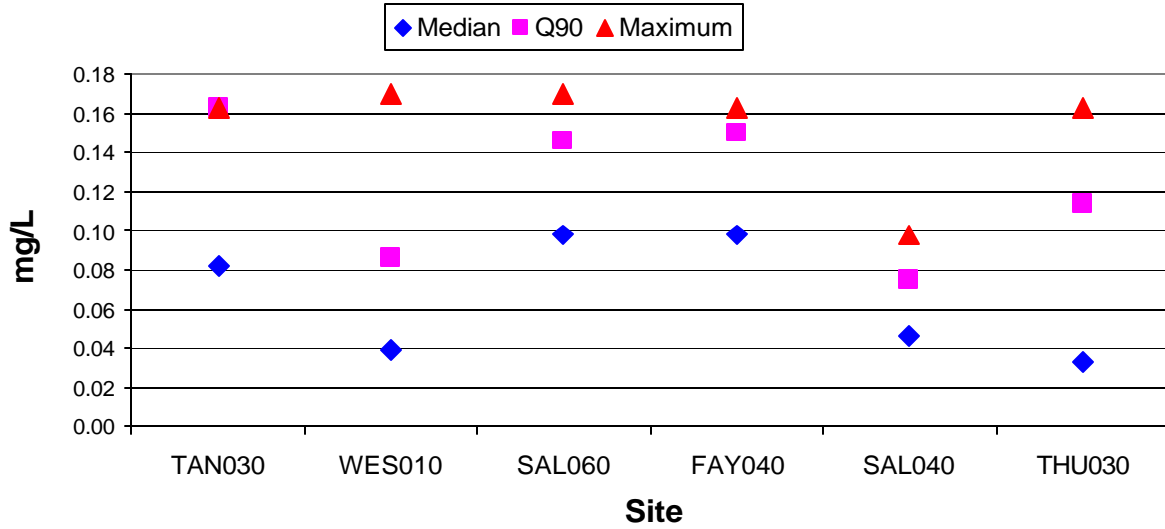
Instrument: Oakton double-junction PHTestr

All sites, except for THU030, had a median pH of 7.8. THU030 had a lower median pH of 7.6. TAN030 had the highest Q90 of 8.2.



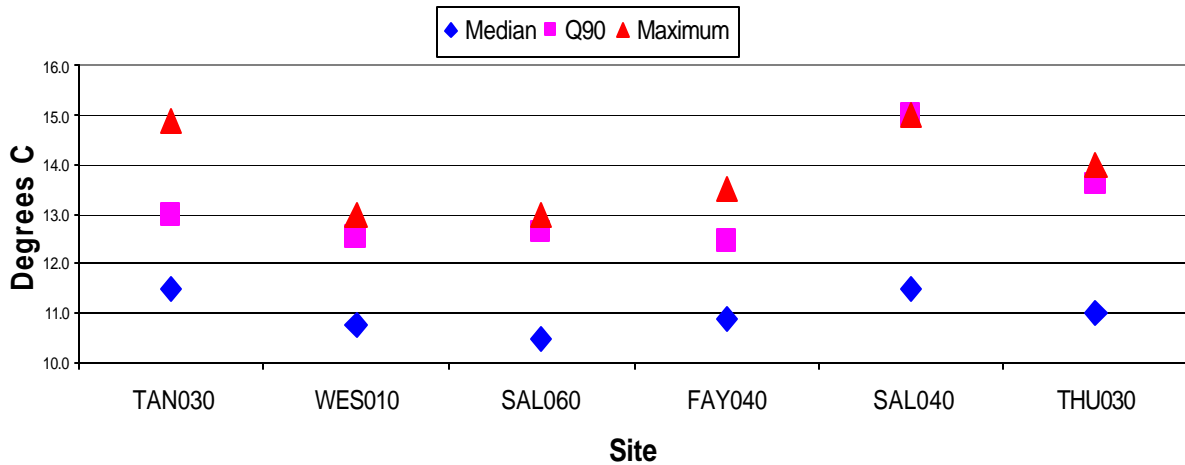
The highest nitrate levels were recorded at SAL040 with a median of 0.1 mg/L and a Q90 of 0.366 mg/L. The lowest levels were found at WES010 with a median of 0.02 mg/L and a Q90 of 0.064.

Phosphate-Phosphorus (PO4-P)



Both SAL060 and FAY040 had the highest phosphate measurements with a median of 0.0978 mg/L. THU030 had the lowest with a median of 0.033.

Water Temperature



Instrument: Bulb Thermometer

The medians for all the sites were between 10 and 12 degrees Celsius. The highest temperatures were found at both TAN030 and SAL040 with a median of 11.5 degrees. The lowest was at SAL060 with a temperature of 10.5 degrees.