The background is a light blue gradient with several realistic water droplets of various sizes scattered across it. The droplets have highlights and shadows, giving them a three-dimensional appearance. The main title is centered in a large, bold, black sans-serif font.

ECOLOGY'S 2015 WQ MONITORING RESULTS FOR THE UPPER CHEHALIS WATERSHED

PRESENTATION TO THE CHEHALIS BASIN PARTNERSHIP

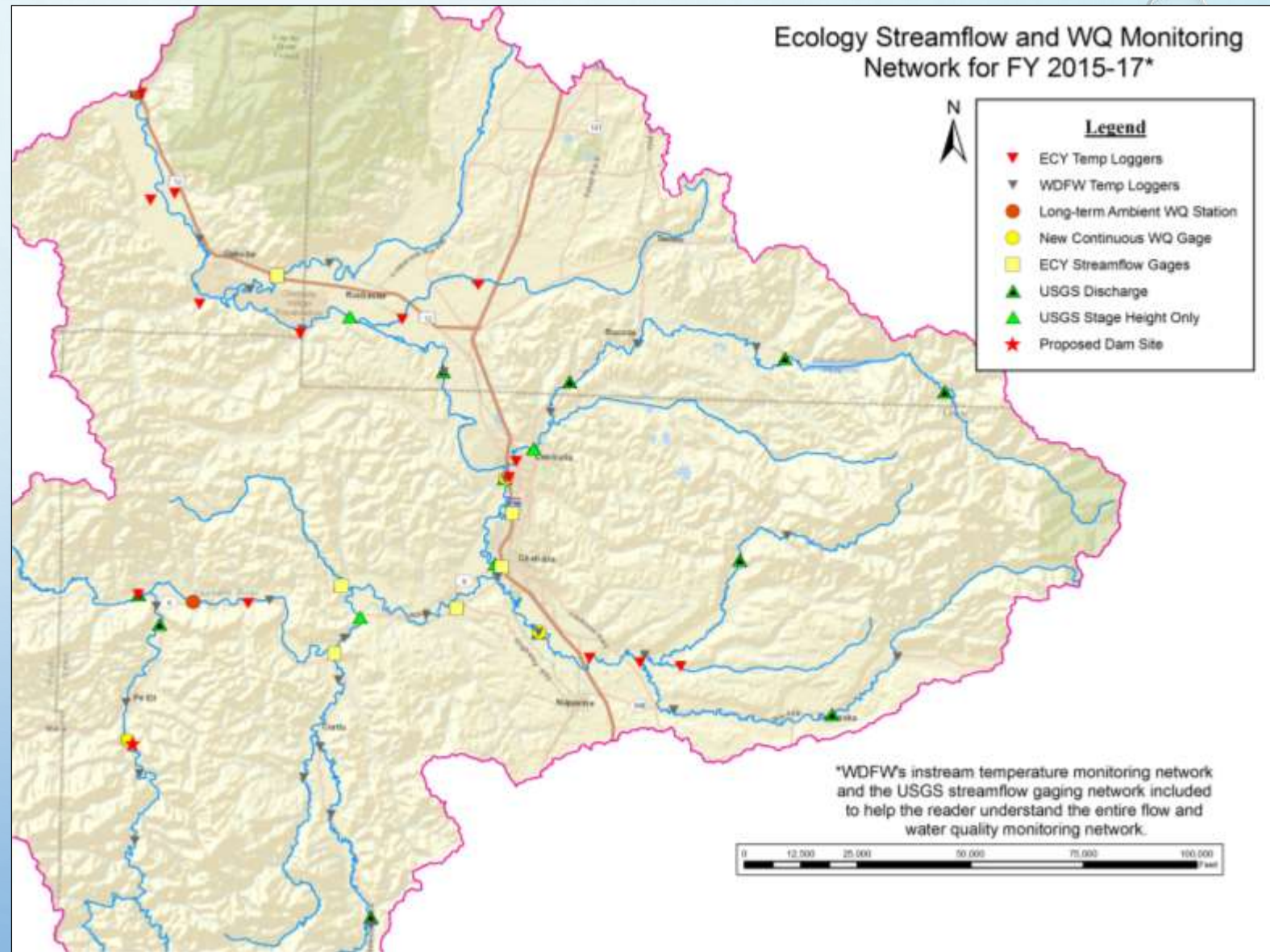
MARCH 25, 2016

DUSTIN BILHIMER, ECOLOGY SWRO-WQ

• ECOLOGY'S WQ MONITORING NETWORK

- 14 TEMPERATURE ONLY STATIONS ON TRIBUTARIES TO THE CHEHALIS*
- 6 STREAMFLOW AND TEMPERATURE GAGES ON SIGNIFICANT TRIBUTARIES*
- 2 WQ GAGES ON THE CHEHALIS*
- 1 WQ GAGE ON THE NEWAUKUM*
- 2 LONG-TERM AMBIENT MONITORING WQ STATIONS

*Paid for by the Chehalis Basin Strategy



SUMMER 2015 TEMPERATURE RESULTS*

Drought Conditions and warm air temperatures contributed to very high stream temperatures exceeding WQ criteria (WQC) most of the time.

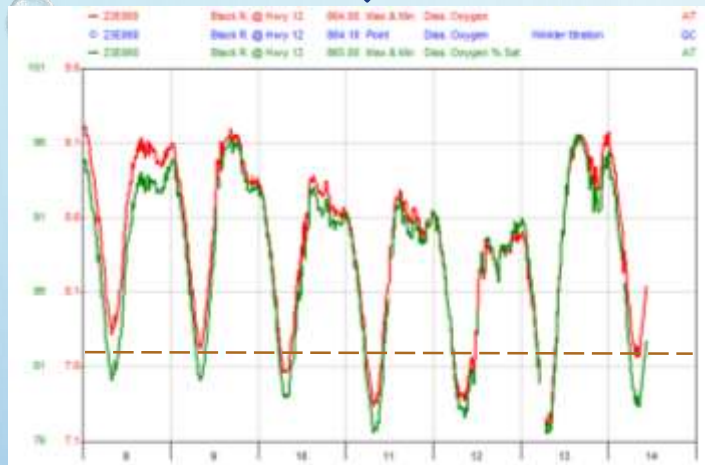
Description	WQC 7DADMax (°C)	Total Deployment Days	Days Above WQC	Percent of Days Exceeding WQC	Max 7DADMax Temp (°C)	Day of 7DADMax Temp	Comments
Elk Cr @ Elk Cr Road Bridge	16	120	95	79%	21.9	7/7/2015	
Chehalis R @ Dryad	16	120	114	95%	25.9	7/7/2015	Excursions in September too
Hope Cr @ Hwy 6	16	94	79	84%	20.5	7/8/2015	Not deployed until 6/16 when temps already exceeding
NewaukumR @ Kirkland Rd	16	120	112	93%	27.0	7/6/2015	Excursions in September too
SF Newaukum R @ NF Rd	16	120	111	93%	25.3	7/6/2015	Excursions in September too
MF Newaukum R @ Tauscher Rd	16	120	98	82%	22.5	7/6/2015	
Skookumchuck R @ Harrison Ave Bridg	16	120	110	92%	24.1	7/6/2015	Excursions in September too
Scatter Cr nr Guava St SW	16	94	80	85%	21.6	7/7/2015	Not deployed until 6/16 when temps already exceeding
Black R @ Hwy 12	17.5	93	77	83%	21.5	7/13/2015	Not deployed until 6/23 when temps already exceeding
Independence Cr nr Independence	17.5	94	36	38%	20.8	7/8/2015	Tidbit signal muted possibly from partial burial
Garrard Cr @ Mattson Rd	17.5	94	60	64%	20.5	7/8/2015	
Cedar Cr @ Hwy 12	17.5	94	59	63%	20.8	7/7/2015	
Rock Cr @ S Bank Rd	17.5	94	60	64%	20.5	7/8/2015	
Porter Cr @ Hwy 12	17.5	94	71	76%	22.0	7/7/2015	

-Statistics are based on the rolling 7-day average of the daily maximum temperatures (7DADMax)

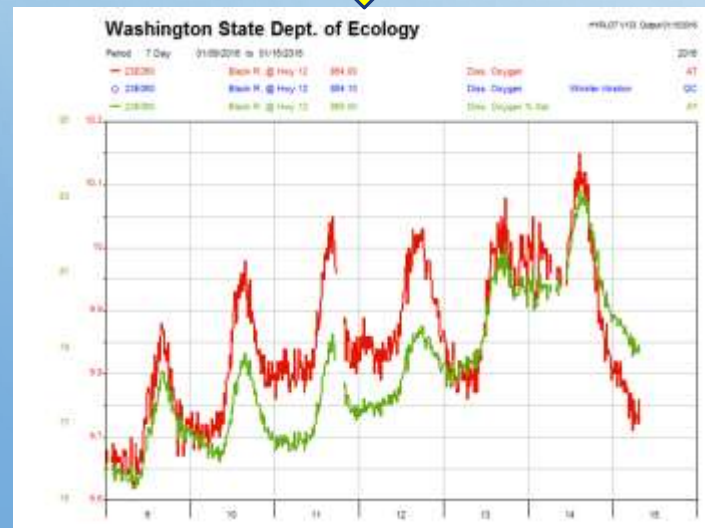
*Finalized data

BLACK RIVER DO*

Summer



Winter



Washington State Dept. of Ecology

HYPLOT V133 Output 03/15/2016

Period: 6 Month 10/01/2015 to 04/01/2016

2015

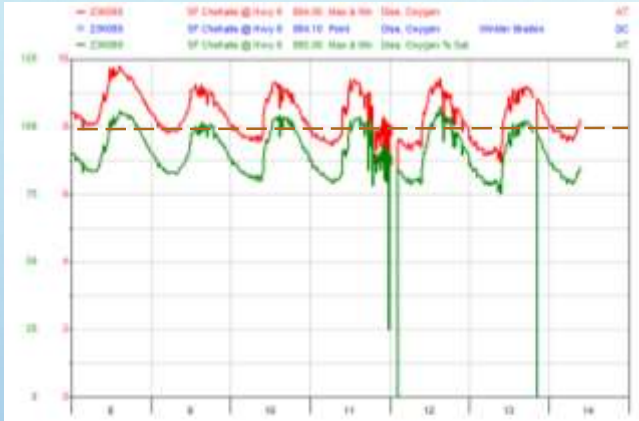


--- WQ Criterion is $D_{min} \geq 8.0 \text{ mg/L}$

*Preliminary data

SOUTH FORK CHEHALIS RIVER DO*

Summer



Winter

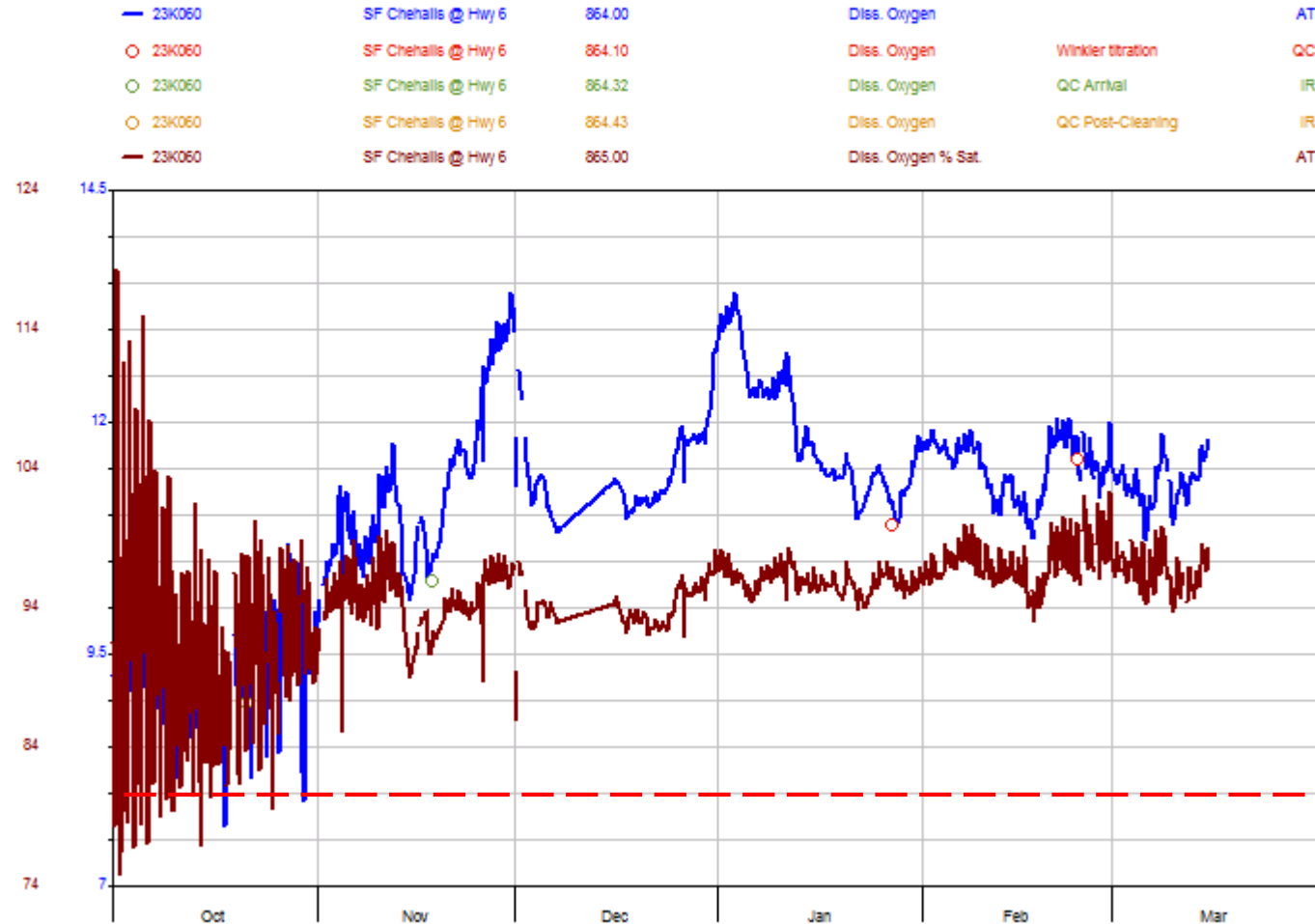


Washington State Dept. of Ecology

HYPLOT V133 Output 03/15/2016

Period 6 Month 10/01/2015 to 04/01/2016

2015

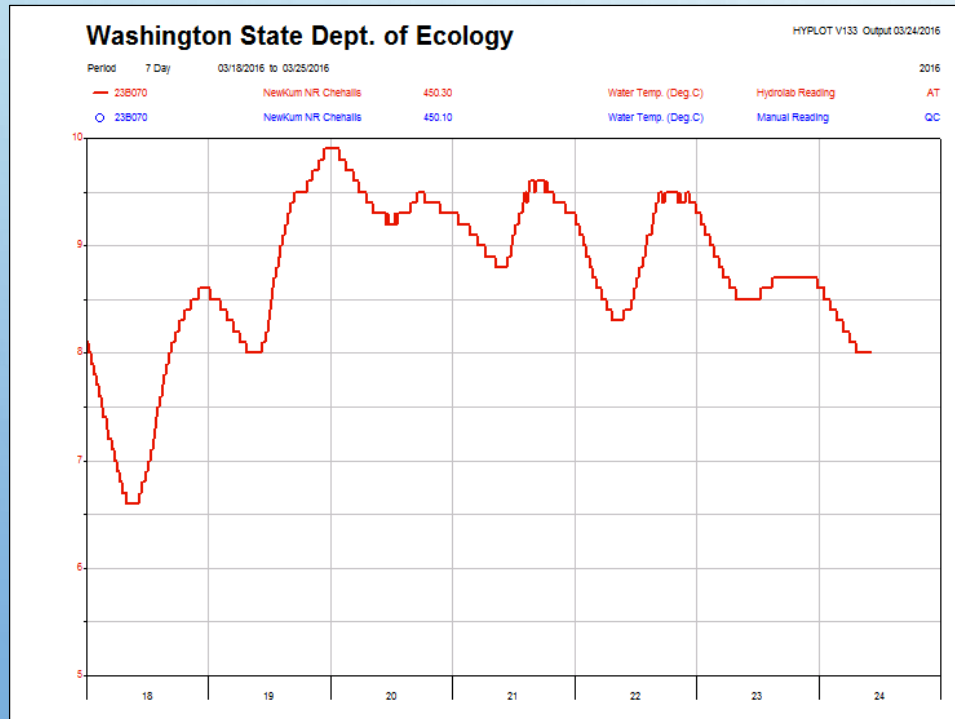


--- WQ Criterion is $D_{min} \geq 8.0 \text{ mg/L}$

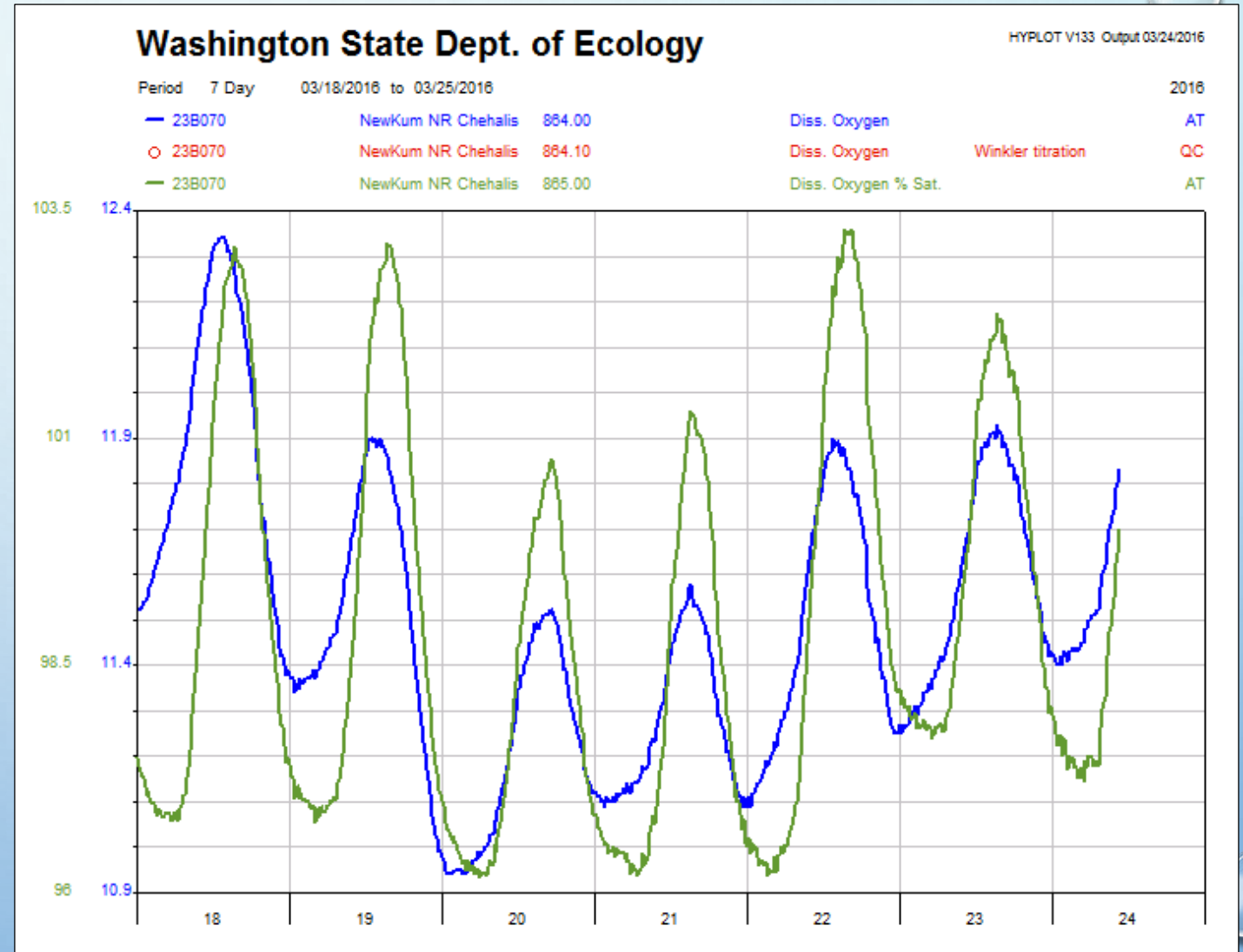
*Preliminary data

NEWAUKUM RIVER AT LABREE ROAD

Temperature

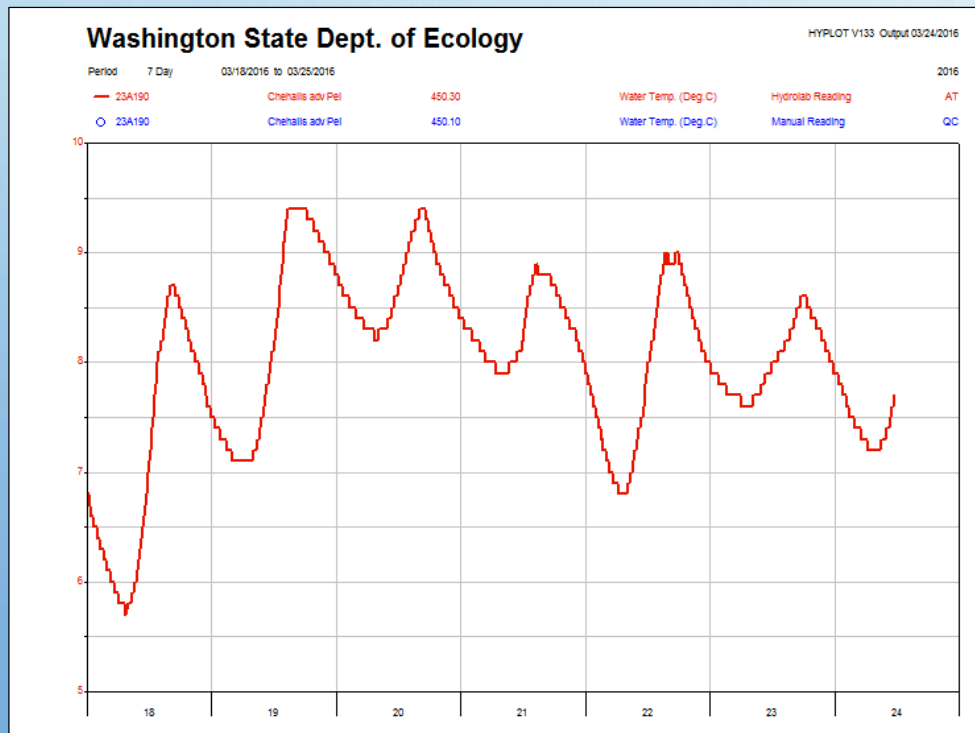


Dissolved Oxygen

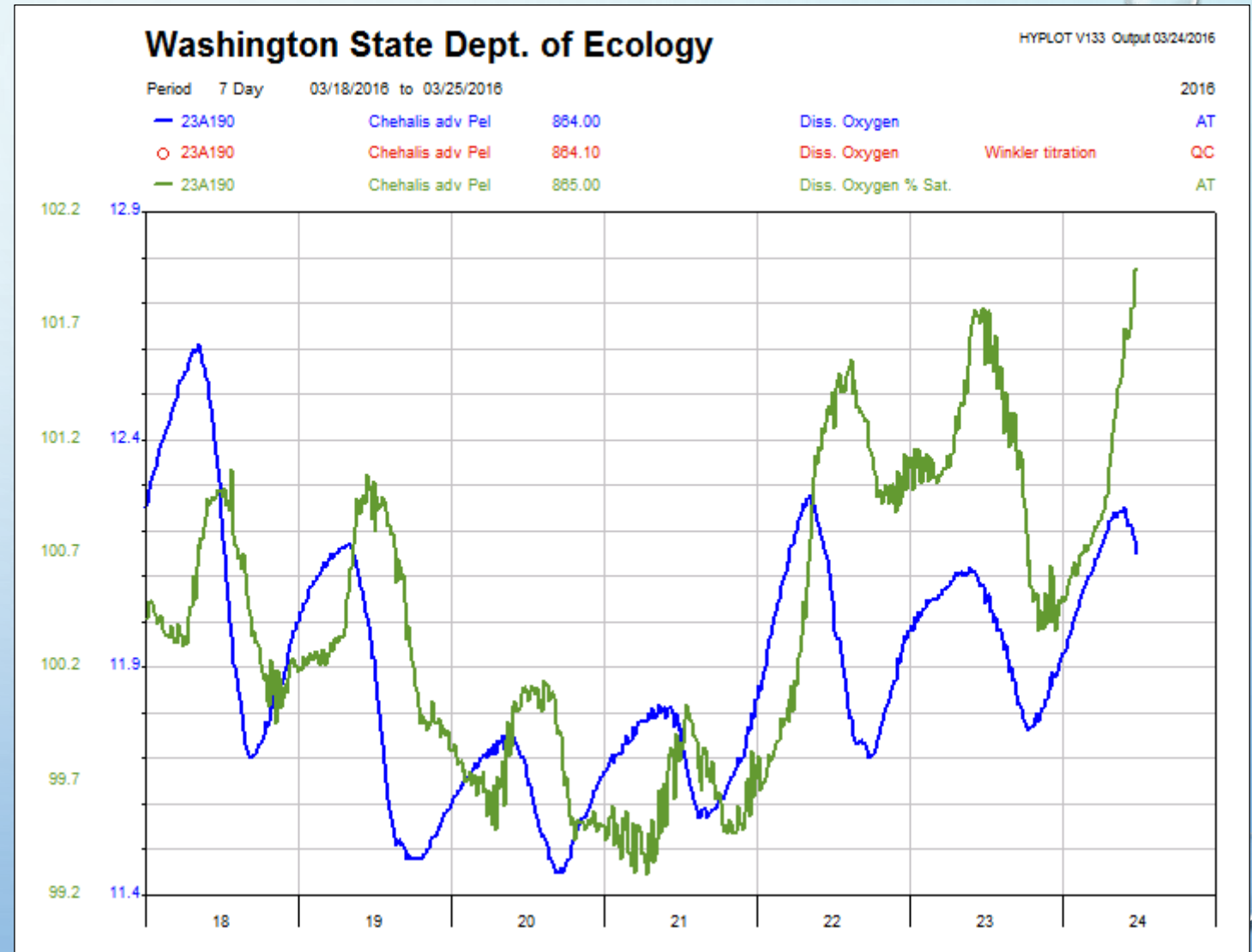


CHEHALIS RIVER ABOVE PE ELL

Temperature

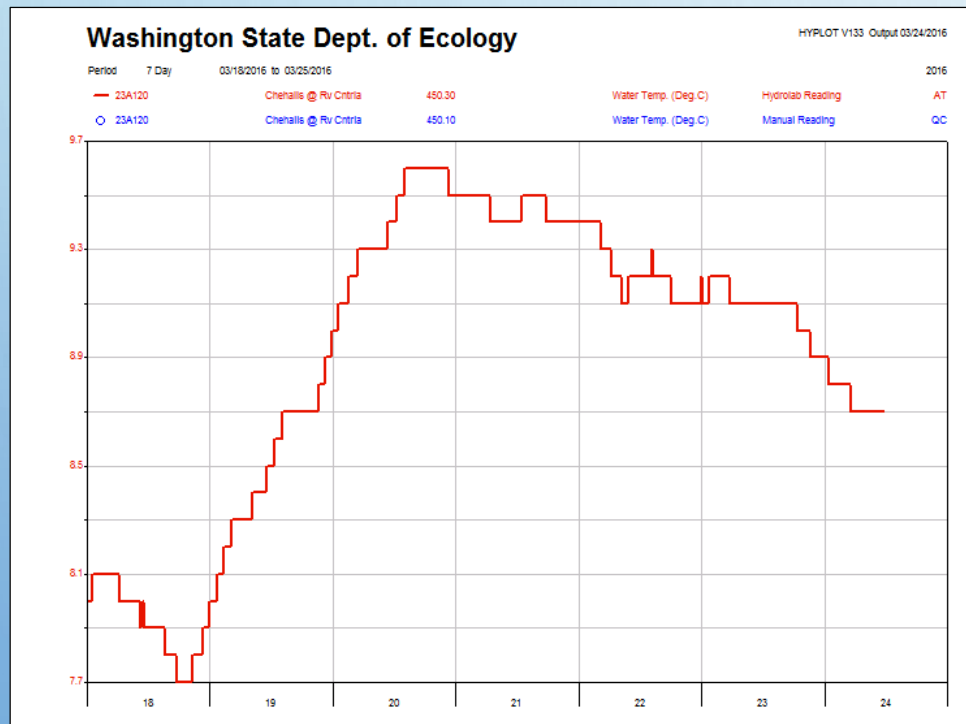


Dissolved Oxygen

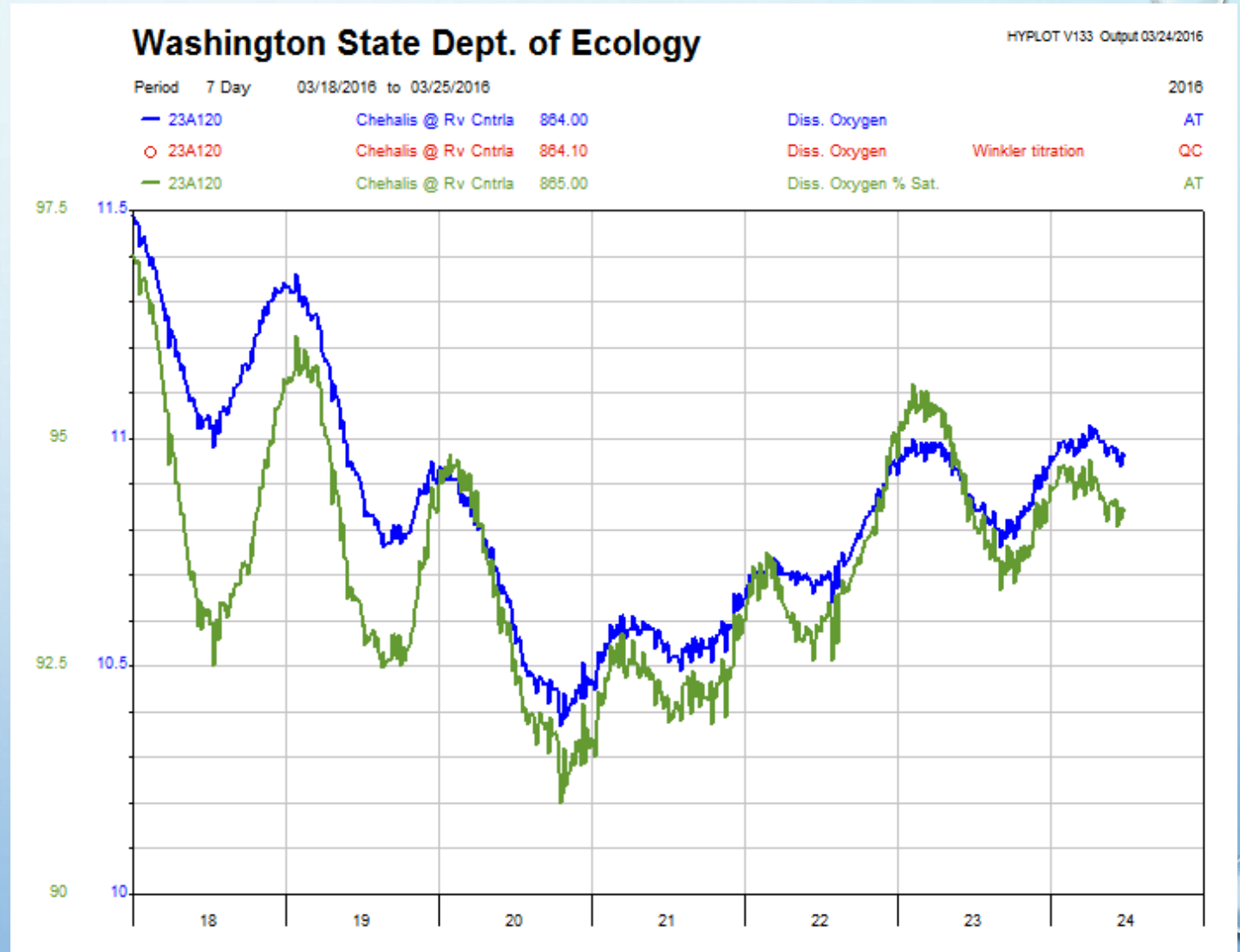


CHEHALIS RIVER AT MELLEN STREET

Temperature



Dissolved Oxygen



REAL-TIME DATA AVAILABLE ON THE WEB

- [HTTPS://FORTRESS.WA.GOV/ECY/EAP/FLOWS/STATION.ASP?STA=23A120](https://fortress.wa.gov/ecy/eap/flows/station.asp?sta=23A120)
- GAGES FUNDED TILL JUNE 2017
 - POTENTIAL FOR FUTURE FUNDING THROUGH THE CHEHALIS BASIN STRATEGY

DEPARTMENT OF ECOLOGY
State of Washington


River and Stream Flow Monitoring

[Environmental Assessment](#) > [Freshwater Monitoring](#) > [Flow Monitoring](#) > [State Network](#) > Station Page

Stream flow monitoring station
Chehalis River @ Centralia

This station is also a [water quality monitoring station](#)

Station details

ID	23A120
type	Telemetry 
Latitude	46° 42' 47.2"
Longitude	122° 58' 39.4"
Stream class	
River mile	66.0
Staff lead	Casey Clishe casey.clishe@ecy.wa.gov
County	Lewis
Ecoregion	
Period of record	Feb 2016 - Present

Water Resource Inventory Area (WRIA)
23, Upper Chehalis

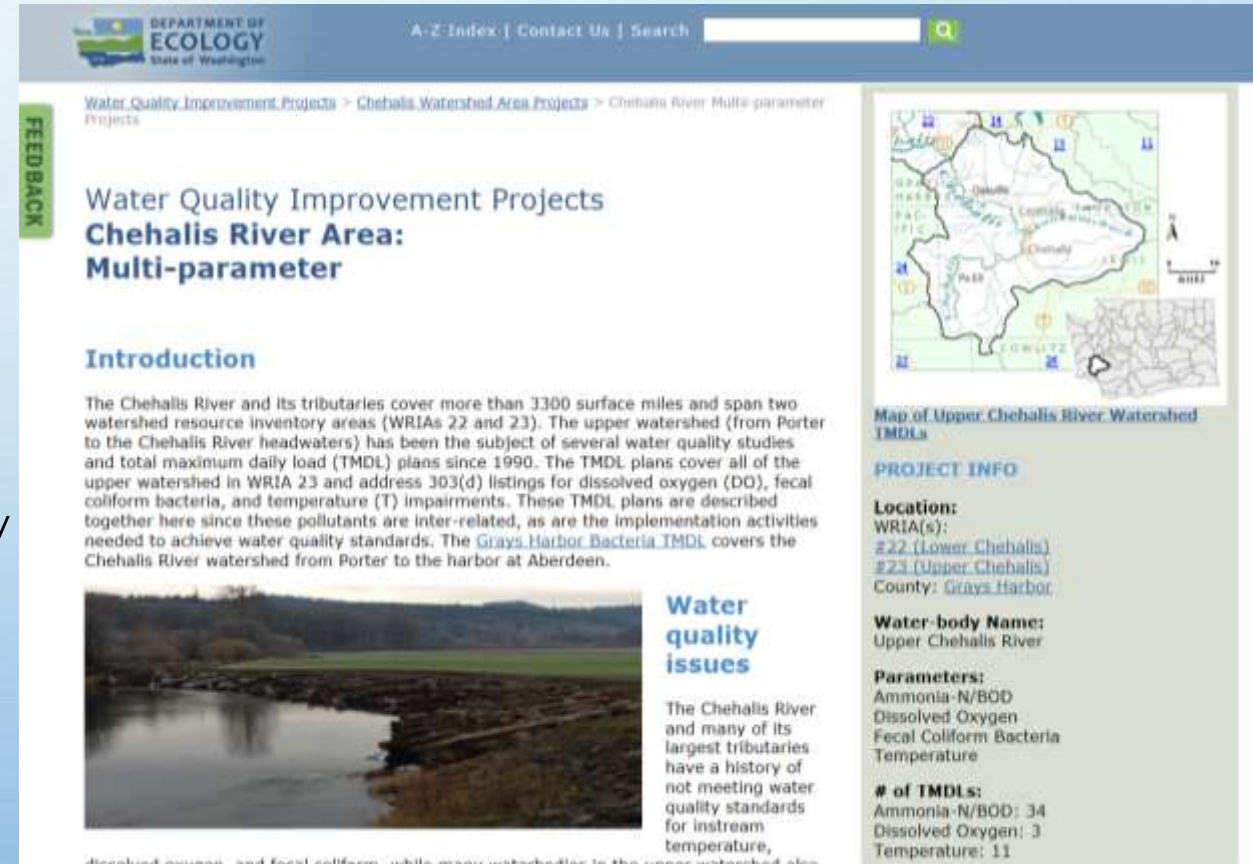
☒ active stations ☐ show historical

id	station name	type*	coop
■ 23A120	Chehalis River @ Centralia	T	
■ 23A190	Chehalis abv Pe Ell	T	
■ 23B070	Newaukum NR Chehalis	T	
■ 23E060	Black R. @ Hwy 12	T	
■ 23H060	Salzer Creek @ Airport Rd	T	
■ 23I070	Bunker Creek @ Ceres Hill Rd	T	
■ 23J070	Stearns Creek @ Twin Oaks Rd	T	
■ 23K060	South Fork Chehalis @ Hwy 6	T	

* T=telemetry SA=stand alone HSH=manual stage height

UPDATED TMDL PROJECT WEB PAGES

- UPDATED TMDL INFORMATION
- LINKS TO TMDL REPORTS AND OTHER TECHNICAL INFO PRODUCED BY ECOLOGY
- LINKS TO PARTNER WEB PAGES
- [HTTP://WWW.ECY.WA.GOV/PROGRAMS/WQ/TMDL/CHEHALISRVRTMDLSUMMARY.HTML](http://www.ecy.wa.gov/programs/wq/tmdl/chehalisrvrtmdlsummary.html)



The screenshot shows the Washington Department of Ecology website. The header includes the department logo, navigation links (A-Z Index, Contact Us, Search), and a search bar. The main content area is titled "Water Quality Improvement Projects" and "Chehalis River Area: Multi-parameter". It features an "Introduction" section with text about the Chehalis River watershed, a "Water quality issues" section with a photo of a river, and a "PROJECT INFO" sidebar with details on location, parameters, and TMDL counts.

DEPARTMENT OF ECOLOGY
State of Washington

A-Z Index | Contact Us | Search

Water Quality Improvement Projects > Chehalis Watershed Area Projects > Chehalis River Multi-parameter Projects

Water Quality Improvement Projects
Chehalis River Area:
Multi-parameter

Introduction

The Chehalis River and its tributaries cover more than 3300 surface miles and span two watershed resource inventory areas (WRIAs 22 and 23). The upper watershed (from Porter to the Chehalis River headwaters) has been the subject of several water quality studies and total maximum daily load (TMDL) plans since 1990. The TMDL plans cover all of the upper watershed in WRIA 23 and address 303(d) listings for dissolved oxygen (DO), fecal coliform bacteria, and temperature (T) impairments. These TMDL plans are described together here since these pollutants are inter-related, as are the implementation activities needed to achieve water quality standards. The [Grays Harbor Bacteria TMDL](#) covers the Chehalis River watershed from Porter to the harbor at Aberdeen.

Water quality issues

The Chehalis River and many of its largest tributaries have a history of not meeting water quality standards for instream temperature, dissolved oxygen, and fecal coliform, while many watersheds in the upper watershed also

Map of Upper Chehalis River Watershed TMDLs

PROJECT INFO

Location:
WRIA(s):
[#22 \(Lower Chehalis\)](#)
[#23 \(Upper Chehalis\)](#)
County: [Grays Harbor](#)

Water-body Name:
Upper Chehalis River

Parameters:
Ammonia-N/BOD
Dissolved Oxygen
Fecal Coliform Bacteria
Temperature

of TMDLs:
Ammonia-N/BOD: 34
Dissolved Oxygen: 3
Temperature: 11