

# NERRS SWMP Water Quality Calibration Log

Last Edit Date: 03/05/2025

Reserve: **GTM**

Station Name:

CDMO Raw File Name:

## Datasonde and Probe Identification Numbers

	Sonde Code	Serial Number		Serial Number	Model Number
Datasonde:	<input type="text" value="EXO210122020-2"/>	<input type="text" value="20H100465"/>	pH:	<input type="text" value="16A102347/23E100229"/>	<input type="text" value="599701"/>
Vented:	<input type="text" value="No"/>	Model Number	RP DO:	<input type="text"/>	<input type="text"/>
Nickname:	<input type="text" value="Irma"/>	<input type="text" value="EXO2"/>	ODO:	<input type="text" value="17L100140"/>	<input type="text" value="599100-01"/>
			Turbidity:	<input type="text" value="13H100225"/>	<input type="text" value="599101-01"/>
			Conductivity:	<input type="text" value="20G104544"/>	<input type="text" value="599827"/>
			Chl/TotAlg:	<input type="text" value="19J105327"/>	<input type="text" value="599103-01"/>
			EXO Wiper:	<input type="text" value="23G100412"/>	<input type="text" value="599090-01"/>

## Datasonde Maintenance

Date of Calibration:  mm/dd/yyyy Technician(s):

	Central/TURB	ODO	CHL		Central/TURB	ODO	CHL
Wiper(s) Replaced:	<input type="text" value="Yes"/>	<input type="text"/>	<input type="text"/>	Wiper parks 180° from optics:	<input type="text" value="Yes"/>	<input type="text"/>	<input type="text"/>
Batteries Replaced:	<input type="text" value="Yes"/>			DO/ODO membrane replaced:	<input type="text" value="No"/>		
Format Flash Disk:	<input type="text"/>			Membrane integrity test:	<input type="text"/>		

Comments:

## Pre/Post Deployment Calibration

Pre-Deployment				Post-Deployment		Sensor Diagnostics	
Standards	Before Cal	Calibrated	Error			Pre-Deployment	
Temp <input type="text" value="19.76"/> °C	<input type="text" value="19.813"/> °C		<input type="text" value="No"/>	Check Date	<input type="text" value="02/12/2021"/>	RP DO chrg (range 25-75)	<input type="text"/>
RP % DO @ 100% sat	<input type="text"/>	<input type="text"/>	<input type="text"/>			RP DO gain (0.7-1.4)	<input type="text"/>
BP @ cal (Rapid Pulse)	<input type="text"/>	<input type="text"/>				Optical DO gain (6600: 0.7-1.4, EXO: 0.87-1.25)	<input type="text" value="1.03"/>
Optical %DO @ 100% sat	<input type="text" value="103.5"/> %	<input type="text" value="101.2"/> %	<input type="text" value="No"/>	<input type="text" value="100.2"/> %	<input type="text" value="100.3"/> %	RP DO warm up test (hi/lo)	<input type="text"/>
BP @ Cal (Optical)	<input type="text" value="767.7"/> mm Hg			<input type="text" value="761.7"/> mm Hg		Cell const (6600: 4.6-5.45, EXO CT2: 4.59-5.61, WPD EXO: 0.419-0.519)	<input type="text" value="0.47"/>
Baro. Pres. (Depth Calib)	<input type="text" value="765.7"/> mm Hg	(760.0 for vented sonde)		<input type="text" value="761.7"/> mm Hg	(760.0 for vented)	pH 7 (0 +/- 50 mV)	<input type="text" value="-43.8"/>
Depth <b>0.077</b> offset	<input type="text" value="0.101"/> m	<input type="text" value="0.077"/> m	<input type="text" value="No"/>	<input type="text" value="0.034"/> m	<b>0.023</b> offset	pH 10 (-180 +/- 50 mV)	<input type="text" value="-223.0"/>
Station Offset	<input type="text"/>					pH 4 (+180 +/- 50 mV)	<input type="text" value="138.4"/>
Level <b>0.0</b> offset	<input type="text"/>	<input type="text"/>			<b>0.0</b> offset	Calculated pH slope	<b>179.2</b>
SpCond <input type="text" value="50.0"/> mS/cm	<input type="text" value="50.054"/> mS/cm	<input type="text" value="50.0"/> mS/cm	<input type="text" value="No"/>	<input type="text" value="49.738"/> mS/cm		(<155 is suspect)	
ph 7	<input type="text" value="7.02"/>	<input type="text" value="7.02"/>	<input type="text" value="No"/>	<input type="text" value="7.12"/>		(4/7 will result in negative slope)	
ph 10	<input type="text" value="10.06"/>	<input type="text" value="10.08"/>	<input type="text" value="No"/>	<input type="text" value="10.11"/>		Post-Deployment	
ph 4	<input type="text" value="4.0"/>	<input type="text" value="3.9"/>	<input type="text" value="No"/>	<input type="text" value="4.16"/>		RP DO chrg (range 25-75)	<input type="text"/>
Turb	<input type="text" value="0.0"/> NTU/FNU	<input type="text" value="0.04"/> NTU/FNU	<input type="text" value="No"/>	<input type="text" value="-0.02"/> NTU/FNU		RP DO warm up test (hi/lo)	<input type="text"/>
Turb	<input type="text" value="124.0"/> NTU/FNU	<input type="text" value="124.99"/> NTU/FNU	<input type="text" value="No"/>	<input type="text"/>		pH 7 (0 +/- 50 mV)	<input type="text" value="-48.7"/>
Rhodamine WT Temp	<input type="text" value="19.622"/> °C			<input type="text" value="21.957"/> °C		pH 10 (-180 +/- 50 mV)	<input type="text" value="-228.5"/>
Chl (0) 0.0 ug/L	<input type="text" value="0.06"/> ug/L	<input type="text" value="0.0"/> ug/L	<input type="text" value="No"/>	<input type="text" value="-0.04"/> ug/L		pH 4 (+180 +/- 50 mV)	<input type="text" value="129.8"/>
Chl (118) 6600: <b>118.6</b> ug/L	<input type="text" value="68.73"/> ug/L	<input type="text" value="68.4"/> ug/L	<input type="text" value="No"/>	<input type="text"/>	6600: <b>113.9</b>	Calculated pH Slope	<b>179.8</b>
EXO: <b>68.9</b> ug/L					EXO: <b>66.0</b>	(<155 is suspect)	
Battery voltage	<input type="text" value="5.29"/> V	(remove ext. power -650,6038)		<input type="text" value="4.96"/> V	(remove ext. power)		

## Programming

Interval:	<input type="text" value="15"/> min	Start date:	<input type="text" value="01/14/2025"/> mm/dd/yyyy	Start time (STD):	<input type="text" value="05:00:00"/> 24 hh:mm:ss
Duration:	<input type="text" value="365"/> days	sonde file name:	<input type="text" value="PI011425"/>	Battery life:	<input type="text" value="134.75"/> days
Free memory:	<input type="text" value="24286.28"/> days	Set clock (status):	<input type="text" value="Yes"/> Y or N	Free memory (status):	<input type="text" value="98.95"/> bytes (k) or %
Parameters recorded:					
Temp:	<input type="text" value="Yes"/>	Sp Cond:	<input type="text" value="Yes"/>	Salinity:	<input type="text" value="Yes"/>
DO % sat:	<input type="text" value="Yes"/>	DO Conc.:	<input type="text" value="Yes"/>	Depth/Level:	<input type="text" value="Yes"/>
pH:	<input type="text" value="Yes"/>	Turbidity:	<input type="text" value="Yes"/>	Chlorophyll:	<input type="text" value="Yes"/>
		pH mV:	<input type="text" value="Yes"/>	Battery Voltage:	<input type="text" value="Yes"/>

Comments-Pre:

fDOM Calibrated: 0.19, 0.00 RFU; 110.36, 100.9 RFU; 0.20, 0.00 QSU; 325.46, 302.7 QSU; TAL  
CHLa RFU DI: 0.03, 0.00; 20C Rhod (std 17.0): 17.07, 17.01

Comments-Post:

temp: 21.033C, 21.01C; fDOM: 1.30QSU, 0.32RFU; TAL RFU: 0.00; pH 4 failed post cal

# NERRS SWMP Water Quality Field Log

Last Edit Date: 03/05/2025

## Deployment Information

First Sample Time:14:00

**Date Deployed:**  mm/dd/yyyy \* **Time:**  hh:mm (24hr) **White Towel:**

**Technician(s):**

### Field Data:

Water Temp  °C DO Percent  % Instrument Type:   
 Sp Cond  mS/cm DO Conc.  mg/L  
 Salinity  psu Other

Comments:

cold, windy, no clouds, outgoing tide

**Infield Maintenance:** Note changes to site during deployment, sonde tube maintenance, biofouling removal, etc.

**Date:**  mm/dd/yyyy **Duration:**  **Maintenance:**

Comments:

no fouling in housing

## Retrieval Information

Last Sample Time:11:45

**Date Retrieved:**  mm/dd/yyyy **Time:**  hh:mm (24hr) **White Towel:**

**Technician(s):**

### Field Data:

Water Temp  °C DO Percent  % Instrument Type:   
 Sp Cond  mS/cm DO Conc.  mg/L  
 Salinity  psu Other

### Fouling Presence:

Type: A=algae, B=barnacles, C=crabs, E=eggs, F=fish, H=hydroids, MD=mud, S=sponges, SI=silt, SL=shell  
 SP=shrimp, T=tunicates, W=worm, O=other, N=none

Amount: H=heavy, M=moderate, L=light (e.g. A/H, B/L)

Sonde/Guard  External Screen  Chlorophyll   
 Temp/Cond  Dissolved Oxygen   
 pH  Turbidity

Comments:

no fouling on sonde

## File Retrieval

**Sonde Filename:**  **Probe Malfunction:**

Comments: