NH VOLUNTEER RIVER ASSESSMENT PROGRAM
VOLUNTEER MONITOR FIELD SAMPLING PROCEDURES SELF ASSESSMENT

(TO BE COMPLETED BY THE VOLUNTEER AND TO BE FILED WITH ORIGINAL FIELD DATA SHEET)

VRAP Group: _____ Date: _____ Time: _____

Volunteer Monitors (First and Last Names): _____

_____

1. Sampling Procedures	**Task Completed**	**Comments**
Sample Collection		
■ Sample bucket rinsed three times with river water prior to sample collection *(filled upstream, dumped downstream)*		
■ Sample collected with minimal disturbance *(bucket gently placed on water surface and allowed to fill)*		
Laboratory Sample Collection & Transportation		
■ Laboratory sample bottles labeled with NHDES Station ID, date, time, analytical parameter, and volunteer's initials		
■ Sample volumes poured from bucket into laboratory sample bottles prior to recording field measurements		
■ Sample(s) stored and transported to laboratory on ice		
Beginning & End of Day Meter Checks		
■ Initial Meter Check/Calibration performed and recorded on field data sheet		
■ End of Day Meter Checks performed and recorded on field data sheet		
Field Replicate		
■ Field replicate for each parameter (from original sample) measured and recorded on field data sheet		
QA/QC Meter Checks		
■ QA/QC Meter Checks for each meter performed and recorded on field data sheet		
Completing the Field Data Sheet & Laboratory Services Log-In Sheet		
■ NHDES Station ID and Station Names recorded on field data sheet		
■ NHDES Laboratory Services Log-In Custody Sheet completed		
2. Turbidity ☐ ***LaMotte 2020*** **OR** ☐ ***LaMotte 2020e***	**Task Completed**	**Comments**
■ Inside of sample vial ("S") rinsed with DI water two times and one time with sample water.		
■ Outside of vial blotted dry with a Kimwipe prior to insertion in meter		
■ Sample vial ("S") appropriately inserted into meter (etched arrow or notch matches with arrow on meter)		
■ "Initial Turbidity Meter Check Value"/calibration performed and recorded on field data sheet using appropriate standard *(1 NTU)*		
■ QA/QC Meter Check (DI Turbidity Blank) performed and recorded on the field data sheet		
■ End of Day Meter Check" performed and recorded on field data sheet using appropriate standard *(1 NTU)*		

3. pH ☐ ***Oakton pH 11*** **OR** ☐ ***Orion 210***	**Task Completed**	**Comments**
■ If necessary, blue plug removed from electrode probe prior to use (Orion)		
■ Meter calibrated to pH 7.0 buffer before each measurement		
■ Meter calibrated to pH 4.0 buffer before each measurement		
■ Electrode probe rinsed with DI water and blotted dry with a Kimwipe after removal from each buffer and prior to sampling		
■ Slope calculation within limit *(92-102%)* and recorded on field data sheet		
■ Slow agitation of electrode probe in small sample container		
■ pH measurement properly recorded after "ready" indicator is displayed (Orion) or until measurement has stabilized (Oakton)		
■ Electrode probe rinsed with DI water and blotted dry with a Kimwipe after removal from sample		
■ QA/QC Meter Check (pH 6.0) performed and recorded on field data sheet		
■ Electrode probe rinsed with DI water and blotted dry with a Kimwipe after removal from 6.0 buffer		
4. Water Temperature & Dissolved Oxygen ☐ ***YSI 85*** **OR** ☐ ***YSI 95***	**Task Completed**	**Comments**
■ Probe inspected prior to use; sensor probe free of air bubbles or tears		
■ Calibration chamber sponge sufficiently moist/dampened		
■ Meter turned **ON** at least 15 minutes prior to first calibration		
■ Time dissolved oxygen meter turned on completed on field data sheet		
■ Time of first dissolved oxygen calibration completed on field data sheet		
■ Meter kept turned on until the end of the day		
■ Meter properly calibrated to % saturation relative to station elevation *(100^{ths} of feet)* before each measurement.		
■ Dissolved oxygen calibration value recorded on field data sheet.		
■ Stabilized % Saturation Chamber Reading value (within 2% of calibration value) recorded on field data sheet.		
■ Probe rinsed with DI water and blotted dry with a Kimwipe prior to sampling		
■ Slow agitation of probe in sample		
■ Temperature equilibration allowed during measurement and recorded on field data sheet		
■ Dissolved oxygen (% saturation) stabilization allowed during agitation, and recorded on field data sheet		
■ Dissolved oxygen (mg/L) measurement recorded on field data sheet immediately after % saturation has stabilized		
5. Specific Conductance ☐ ***YSI 30*** ***OR*** ☐ ***YSI 85***	**Task Completed**	**Comments**
■ Probe rinsed with DI water and blotted dry with a Kimwipe prior to sampling		
■ Temperature compensation indicator *(Flashing °C)* indicating specific conductance		
■ "Initial Conductivity Meter Check" performed and recorded on field data sheet using appropriate µS standard		
■ Probe rinsed with DI water and blotted dry with a Kimwipe after removal from appropriate µS standard		
■ Slow agitation of probe in sample, and measurement recorded on field data sheet		
■ Probe rinsed with DI water and blotted dry with a Kimwipe after removal from sample		
■ "End of Day Meter Check" performed and recorded on field data sheet using appropriate µS standard		
6. Data Submittal	**Task Completed**	**Comments**
■ Field data sheet(s) submitted to NHDES		
■ VRAP staff contacted regarding any issues		