For Office Use Only         Group ID:         Partner ID:         Date Received:         Date Approved:         Approved by (name):         COR         Sample Date       Sa         M       M       D       Y       Y         Site ID #       Sa	mple Time (military) → → → → → → → → → → → → → → → → → → →	THE M FOR WAT TEXAS STA EXAS S	IEADOWS CENTER TER AND THE ENVIRONMENT TE UNIVERSITY TREAM TEAM CAL MONITO CITIZEN SCIENTIST'S Name Site Description Group or Affiliation Core monitoring type conducted	Email to: TxStre         Send to: Texas (         The M         601 Ur         San M         DRING I         Standard C         H-GAC	Core Core Cuses the	te-edu  Texas State University  4616  Probe Core  Standard Core ki
Calibration: Conducted w           Calibration         Da           Conductivity/Salinity         Discolved Oxygen	vithin 24 hours of sampli te Time	ng. Store and ca	Ilibrate standard solutions a Standard Pre-1 Temp (°C) Ini	t room temperatu est Calibration tial Reading	ITE. Calibrated To	Post-Test Calibration Initial Reading
pH         Field Observations:         Flow SEVERITY: 1-n         5-h         ALGAE: 1-absent 2-r         4-abundant (!         WATER SURFACE: 1-c         WATER SURFACE: 1-c         WATER CONDITIONS:         PRESENT WEATHER:         DAYS SINCE LAST SIG         RAINFALL ACCUMULA         WATER COLOR: 1-no         WATER CLARITY: 1-cla         WATER ODOR: 1-none         5-rotte	o flow 2-low 3-norm igh 6-dry are (<25%) 3-common 51-75%) 5-dominant (> clear 2-scum 3-foam 1-calm 2-ripples 3-w 4-white caps 1-clear 2-cloudy 3-ov NIFICANT PRECIPITATION NIFICANT PRECIPITATION TION (inches within the color 2-light green 3-on 5-red 6-green/brown ear 2-cloudy 3-turbid e 2-oil 3-acrid (punger en egg 6-fishy 7-musl	al 4-flood (26-50%) 75%) 4-debris 5-shee vaves ercast 4-rain DN (runoff) last 3 days) dark green 7-black t) 4-sewage	Field Quality Control: Was a QC session conc Core Tests and Measur AIR TEM and AIR TEM AIR TEM AIR TEM SECCHI Average Appears TRANSP WATER DISSOLV Average 1st titrat pH (stan CONDU	lucted for this san rements: PERATURE (°C) EPTH (meters) DISK TRANSPARE ARENCY TUBE (0 "EMPERATURE (° 'ED OXYGEN (mg on	Temp. is nearest 0 degrees ENCY (meters) Disappea .01 meters) (C) (J) (L) 2nd titrat Report in u	Yes No reported to .0 or 0.5  ars eport the disk or ube, depending n which you use tion US or include unit
Presence of Litter:         MONOFILAMENT REMOVED         Amount (please circle):       0-5 ft         OURDLE SURVEY         TRASH REMOVED         Comments:	Please c Please c Ye 5 ft 16 ft+ Ye Ye DTRAVELING	heck Yes or No s  No s No s No TOTAL ROU	Coastal Area Salinity T SALINIT SALINIT TIDE ST INDTRIP DISTANCE TRAVE Miles ecklist on the following page	ests and Observ ( (ppth) AGE: 1-low 2-fal LED e and in the manu	ations: ling 3-slack 4	I-rising 5-high ER OF PARTICIPANTS followed.

CERTIFIED CITIZEN SCIENTIST'S SIGNATURE

DATE

DATA COORDINATOR'S SIGNATURE

DATE

Prepared in cooperation with the Texas Commission on Environmental Quality and the United States Environmental Protection Agency.

# **CORE FIELD QUALITY CONTROL CHECKLIST**

The following Field Quality Control Checklist is used by the Texas Stream Team Citizen Scientist to verify that the data are collected using approved protocols. Please check all boxes that apply to this sampling event before submitting this form.

# **General Procedures**

- Gloves and goggles were worn.
- □ None of the reagents used for testing were expired.
- All reagents were stored at room temperature or in an environment protected from extreme weather prior to use.
- Sampling was conducted at approximately the same time/day as previous sampling events at this site, preferably before noon or after 4pm
   (16:00).

included.

- All equipment was rinsed twice with sample water/deionized water before and after tests.
- □ All relevant measurements were recorded in appropriate fields on monitoring form.

## **Field Observations**

- Algae: Recorded algae observed on the water surface and below the water surface.
- Water Color: Observed water color in a plastic cup or bucket with a white background.
- □ Water Clarity: Observed the relative cloudiness of the water from bridge or banks.
- Water Odor: Tested by wafting from plastic cup or bucket.
- Present Weather: Marked cloudy if there is a least one cloud in the sky.

## **Instrument Calibration**

- □ The instruments/probes were calibrated within 24 hours of monitoring.
- Calibrations were conducted in a temperature-controlled environment before sampling.
- All meters were held in center of beaker not touching the bottom or sides and stirred for 2 minutes before recording the reading.
- All meters were turned on/off while submerged in solution.
- D Meters were rinsed with DI water and caps were replaced immediately after use.
- Pre- and post-test calibration tests were conducted and the differences between the "Meter adjusted to" value of the pre-test calibration and "Post-test calibration initial reading" fall within the error limits listed in the table below:

Parameter	Error limit		
Conductivity	± 20% of calibration standard solution		
Salinity	± 1 ppt		
Dissolved Oxygen (Probe Core only)	± 0.5 mg/L		
pH (Probe Core only)	± 0.5 sµ		

## **Core Tests and Measurements**

- Sample Depth: The sample depth is either 0.3 m or half of the total depth.
- Air Temperature: Thermometer placed in shade and values reported in degrees Celsius.
- □ Total Depth/Secchi Disk Transparency/Transparency Tube: Values reported in meters.
- Secchi Disk Transparency: Ensure the average of two measurements is reported, the measurement when the disk disappears and appears. Record average then lower to bottom to get total depth reading. If water is too swift to get reading, make note in comments section.
- **Water Temperature:** If using thermometer, air temperature was measured first and reported in degrees Celsius.

#### Dissolved Oxygen:

- Bottles rinsed 2X with sample water and titration vials rinsed 2X with fixed solution.
- Bottles filled so the meniscus is resting on the line.
- Lids capped underwater with no air bubbles.
- Duplicate sample conducted and titration values within 0.5 mg/L of each other.

## D pH:

- □ The blue cap on glass pH vial removed before viewing and held up against a white background.
- $\hfill\square$  The test tube was filled so the meniscus is resting on the line.

# **Conductivity**:

- □ Values recorded in microsiemens per centimeter (µS/cm).
- □ Reagent bottles completely inverted when adding drops to prevent interference from air bubbles.

# Refractometer

- □ Was time allowed for the temperature of the sample water to stabilize before the salinity measurement was recorded?
- $\Box$  Was instrument held up to a light source when gathering the salinity measurement

# **Questions?**

Fill out entire checklist and submit with form - if some of

the QA checks are not complete, your data may not be

Email stream.team@h-gac.com

Or Visit h-gac.com/texas-stream-team