

For Office Use Only  
 Partner ID: \_\_\_\_\_  
 Date Received: \_\_\_\_\_  
 Date Approved: \_\_\_\_\_  
 Approved by (name): \_\_\_\_\_



THE MEADOWS CENTER  
 FOR WATER AND THE ENVIRONMENT  
 TEXAS STATE UNIVERSITY

Email to: TxStreamTeam@txstate.edu  
 Send to: Texas Stream Team  
 The Meadows Center - Texas State University  
 601 University Drive  
 San Marcos, TX 78666-4616

# TEXAS STREAM TEAM ADVANCED ENVIRONMENTAL MONITORING FORM

Sample Date

M	M	D	D	Y	Y	Y	Y

Sample Time (military)

H	H	M	M

Citizen Scientist's Name \_\_\_\_\_

Site ID #

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Sample Depth (meters)

(not total depth)				

Site Description \_\_\_\_\_

Group or Affiliation \_\_\_\_\_

**Field Observations:**

- FLOW SEVERITY: 1-no flow 2-low 3-normal 4-flood 5-high 6-dry
- ALGAE: 1-absent 2-rare (<25%) 3-common (26-50%) 4-abundant (51-75%) 5-dominant (>75%)
- WATER SURFACE: 1-clear 2-scum 3-foam 4-debris 5-sheen
- WATER CONDITIONS: 1-calm 2-ripples 3-waves 4-white caps
- PRESENT WEATHER: 1-clear 2-cloudy 3-overcast 4-rain
- DAYS SINCE LAST SIGNIFICANT PRECIPITATION (runoff)
- TIDE STAGE (coastal only) 1-low 2-falling 3-slack 4-rising 5-high
- RAINFALL ACCUMULATION (inches within the last 3 days)
- WATER COLOR: 1-no color 2-light green 3-dark green 4-tan 5-red 6-green/brown 7-black
- WATER CLARITY: 1-clear 2-cloudy 3-turbid
- WATER ODOR: 1-none 2-oil 3-acrid (pungent) 4-sewage 5-rotten egg 6-fishy 7-musky

**Turbidity:**

NEPHELOMETRIC TURBIDITY UNITS (NTU)  
 TURBIDITY TUBE: \_\_\_\_\_ (centimeters)  
 \_\_\_\_\_ cm ÷ 100 = \_\_\_\_\_ meters

Filtered  Yes  No

**Nitrate-Nitrogen:**

VALUE (ppm or mg/L)  
 Sample 1: \_\_\_\_\_ ppm or mg/L  
 IF ≥ 2.00 ppm --> Sample 2: \_\_\_\_\_ ppm or mg/L

**Phosphate:**

VALUE (ppm or mg/L)  
 Sample 1: \_\_\_\_\_ ppb ÷ 1000 = \_\_\_\_\_ ppm or mg/L  
 IF ≥ 700 ppb --> Sample 2: \_\_\_\_\_ ppb ÷ 1000 = \_\_\_\_\_ ppm or mg/L

**Streamflow Estimate:**

FLOW MEASUREMENT METHOD: 1-flow gauge station 2-streamflow estimate

WIDTH (ft)

DEPTH (ft)

AVERAGE Depth 1: \_\_\_\_\_ Depth 5: \_\_\_\_\_ Depth 9: \_\_\_\_\_  
 Depth 2: \_\_\_\_\_ Depth 6: \_\_\_\_\_ Depth 10: \_\_\_\_\_  
 Depth 3: \_\_\_\_\_ Depth 7: \_\_\_\_\_  
 Depth 4: \_\_\_\_\_ Depth 8: \_\_\_\_\_

TIME (sec)

AVERAGE Time 1: \_\_\_\_\_ Time 2: \_\_\_\_\_ Time 3: \_\_\_\_\_

VELOCITY (ft/s) = 10ft / AVG TIME

AVERAGE

DISCHARGE (cfs) = WIDTH x AVG DEPTH x AVG VELOCITY

**Comments:**

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

*\*\*Please do not fill out the remaining sections if you are also submitting a Core Environmental Monitoring Form with this information.\*\**

TOTAL TIME SPENT SAMPLING AND TRAVELING

TOTAL ROUNDTRIP DISTANCE TRAVELED

TOTAL NUMBER OF PARTICIPANTS

Minutes

Miles

I certify that all procedures, including the items listed in the Quality Control Checklist on the following page and in the manual, have been followed.

\_\_\_\_\_  
 CERTIFIED CITIZEN SCIENTIST'S SIGNATURE

\_\_\_\_\_  
 DATE

# ADVANCED FIELD QUALITY CONTROL CHECK LIST

**Citizen scientists are required to check all applicable boxes for each monitoring event to verify the procedures are followed. If the monitoring event fulfills a Field Audit Session, the trainer must observe the citizen scientist conducting the monitoring event and document observations in the comments field. The trainer will also sign to verify Field Audit Session was conducted.**

## General Procedures

- Samples were transported on ice if testing did not occur at monitoring site.
- Gloves were worn or hand sanitizer was applied throughout.
- 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).
- Monitoring sample was collected from the centroid of flow with minimal streambed disturbance.
- All equipment was rinsed twice with sample water before the test was conducted.
- All equipment was rinsed twice with deionized water after testing was completed.
- 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.

## Streamflow Estimate

- A cross section of the waterbody was chosen that is consistent in depth and free of ripples, backwater, and pools.
- Water depth was measured in 2-foot increments across the width of the water body.
- The 10-foot downstream measurement was measured from the centroid of the cross section for the streamflow estimate method.
- The timer was started from the moment the whiffle ball/floating object touched the water. Not from the moment it was released.
- Discharge was recorded with one decimal place if <10 cfs. If >10 cfs the value was recorded to the nearest whole number.

## Turbidity

- Sample was collected in the centroid of the waterbody, facing upstream, with minimal streambed disturbance.
- Water was released from tube until the disk became barely visible.
- Turbidity tube value was reported in meters.

## Phosphate

- Sample was properly filtered, if water clarity was marked cloudy or turbid.
- The phosphate value was converted accurately from ppb to ppm or mg/L.

## Nitrate-Nitrogen

- Sample was properly filtered, if water clarity was marked cloudy or turbid.
- Sample tubes were completely inverted to dissolve the tablets.
- Tube with Nitrate #2 Tablet was immediately placed in protective sleeve if testing occurred outdoors.

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## Field Audit Session

*This section should be filled out by a certified trainer ONLY if a Field Audit Session was conducted. Field Audit Sessions are required at a minimum every two years.*

Legible Trainer Full Name: \_\_\_\_\_ Trainer Signature: \_\_\_\_\_

Trainer Comments:

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