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THE MEADOWS CENTER
 FOR WATER AND THE ENVIRONMENT
 TEXAS STATE UNIVERSITY

TEXAS STREAM TEAM

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 Send to: Texas Stream Team
 The Meadows Center - Texas State University
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 San Marcos, TX 78666-4616

ADVANCED ENVIRONMENTAL MONITORING FORM

PLEASE PRINT LEGIBLY

Sample Date
 M M D D Y Y Y Y

Sample Time (military)
 H H M M

Citizen Scientist's Name _____

Site Description _____

Site ID #

Sample Depth (meters)

 (not total depth)

Group or Affiliation _____

Field Quality Control:

Was a QC field audit session conducted for this sampling event? Yes No

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:

RESULT (JTU)
 GRADUATION _____
 # OF DROPS ADDED _____

Orthophosphate (Soluble Phosphates):

VALUE (mg/L)
 TIME SPENT TRANSPORTING (minutes) _____
 FILTERED Yes No
 RANGE
 LOW: OBSERVED VALUE _____ /50 = _____ mg/L
 MID: OBSERVED VALUE _____ /10 = _____ mg/L
 HIGH: OBSERVED VALUE _____ = _____ mg/L

Nitrate-Nitrogen:

RESULT (mg/L or ppm)
 TIME SPENT TRANSPORTING (minutes) _____

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.

Presence of Litter:

MONOFILAMENT REMOVED Yes No
 Amount (please circle): 0-5 ft 6-15 ft 16 ft+

NURDLE SURVEY Yes No
 TRASH REMOVED Yes No

TOTAL TIME SPENT SAMPLING AND TRAVELING

Minutes

TOTAL ROUNDTRIP DISTANCE TRAVELED

Miles

TOTAL NUMBER OF PARTICIPANTS

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

DATA COORDINATOR'S SIGNATURE

DATE

ADVANCED FIELD QUALITY CONTROL CHECK LIST

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

- 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.
- The 10-foot downstream measurement was measured from the centroid of the cross section.
- 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. If >10 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.

Orthophosphate

- Sample was properly filtered, if appropriate.
- The orthophosphate value was calculated accurately depending on the range observed (i.e, low, mid, high).

Nitrate-Nitrogen

- Sample tubes were completely inverted to dissolve the tablets.
- Tube with Nitrate #2 Tablet was immediately placed in protective sleeve if testing occurred outdoors.