**DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET**

MONITORING LOCATION: DESCRIPTION \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ SURVEY/PROJECT: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

MONITORING LOCATION: NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ SAMPLING ENTITY\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ RQ\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

MONITORING LOCATION: WIN ID\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ COUNTY \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ORG CODE \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

LATITUDE \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ LONGITUDE \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ DATE \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TIME \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (EAST/CENT)

**HABITAT COMPONENTS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| STORMWATER INPUTS: | Stormwater enters system via sheet flow over non-cultivated and/or natural vegetation | Some direct stormwater inputs (ditches, pipes, cultivated vegetation < 10%) but good BMPs in place | Moderate direct inputs of stormwater (ditches, pipes, cultivated vegetation 11%-50%) but few BMPs in place | Much direct input of stormwater (ditches, pipes, cultivated vegetation > 51%) and no or ineffective BMPs in place |
| 20 | 19 | 18 | 17 | 16 |  15 | 14 | 13 |  12 | 11 |  10 |  9 |  8 |  7 |  6 |  5 |  4 |  3 |  2 |  1 |
| LAKESIDE ALTERATIONS: | Very few man-made structures, roads, or other disturbance adjacent to lake (<10% lakeside affected) | Moderate disturbance visible -structures, roads or other (10%-49% lakeside affected) | Many structures, roads or other human disturbance visible (50%-70% lakeside affected) | Highly developed or disturbed (>70% of lakeside affected) |
| 20 | 19 | 18 | 17 |  16 |  15 | 14 | 13 |  12 | 11 |  10 |  9 |  8 |  7 |  6 |  5 |  4 |  3 |  2 |  1 |
| BUFFER ZONE: | Expected native vegetation between uplands and littoral zone, greater than 90% of shore with >18 m buffer | 89%-51% of shoreline with >18m buffer or >75% with 10m to 18m buffer | 50%-30% of shoreline with >18m buffer or 50%-74% with 10m to 18m buffer | < 29% of shoreline with >18m buffer |
| 20 | 19 | 18 | 17 | 16 |  15 | 14 | 13 |  12 | 11 |  10 |  9 |  8 |  7 |  6 |  5 |  4 |  3 |  2 |  1 |
| **PREDOMINANT LAKESIDE LAND USE** : Forest/Natural Silviculture Field/Pasture Agricultural Residential Commercial Industrial Other (Specify) |
| **Local Watershed Erosion:** None Slight Moderate Heavy | **Local Watershed Pollution:** None Slight Moderate Heavy |

**WATER QUALITY**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sample Depth (m)** | **Temp. (C°)** | **pH (SU)** | **DO (mg/L)** | **DO** **(% SAT)** | **Sp. Cond. (umhos/cm)** | **Salinity (ppt)** | **Secchi Depth (m)** | **Total Depth (m)** |
| **Top** |  |  |  |  |  |  |  |   |  |
| **Mid** |  |  |  |  |  |  |  |
| **Bottom** |  |  |  |  |  |  |  |
| **Data J Qualified?**  |  |  |  |  |  |  | **VOB:** Yes No |
| **Meter ID #:** |  | **Photos Taken:** Yes No |

**OBSERVATIONS**

|  |  |  |
| --- | --- | --- |
| **Water Clarity:** Clear Slightly Turbid Turbid Opaque  | **Sediment Odors:**  Normal  Anaerobic  ChemicalPetroleum   Sewage   | **Abundance:** Absent Rare Common AbundantPeriphyton/Algal Mat:Nuisance Plants:Submersed Plants: Exotic Apple Snails: |
| **Water Color:** Clear Green (Algae) Tannic  |
| **Water Odors:**  Normal Chemical Petroleum Sewage  |
| **Water Oils:** NormalGlobSheenSlick |
| **Artificially Impounded:** Yes No | **Sediment Type:**  Organic Fibrous (peaty)  Organic Smooth (muck)  Sand/Silt  Sandy  Vegetated  | **Biological Communities:**LVI Conducted? Yes No |
| **Water Level:** Low Normal High  | **Notes:** |
| **Water Level Control Mechanisms Present** (Weir, Dam, Pumps)**:**   Yes No Don’t Know |
| **Active Vegetation Management:** Yes No Don’t Know |
| **Sediment Oils:**Normal Glob Sheen Slick |
| **Weather Conditions:** |
| **Print Name:** | **Signature:** | **Date**: |

SITE \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ DATE \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |
| --- |
| **Collection Method:** Wading Shore Canoe Boat (gas motor) Other \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Additional Observations (evidence of vegetation management):**  |
| **Print Name:** | **Signature:** | **Date:** |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sampling Team Members** | **Meter****Readings** | **Sample****Collection** | **Documentation** | **Preservation** | **Preservation****Check** |
| **1.** |  |  |  |  |  |
| **2.** |  |  |  |  |  |
| **3.** |  |  |  |  |  |
| **4.** |  |  |  |  |  |