**2023-2025 SOW Task 4 Monitoring Plan:**

*<Watershed/Project Name>*

*Date approved by ODA Monitoring Lead: \_\_\_\_\_\_\_*

## A. Overview

|  |  |
| --- | --- |
| Name of SWCD |  |
| Name of AgWQ Management Area  |  |
| Parameters being tracked |  |

## B. Briefly describe the WQ concern *(include map that identifies monitoring locations)*

## C. Monitoring Purpose and Question(s):

*(The monitoring question(s) must be related to:*

* *Agricultural water quality status and trends*
* *Agricultural upland land conditions or practices that protect water quality*
* *Riparian vegetation inventory and monitoring along streams*
* *Water quality effects related to agricultural upland and/or riparian vegetation conditions*

*Examples:* Does E. coli contamination instream increase from upstream to downstream as the river flows through areas with agricultural land use? Ag Areas?

 Does turbidity from upstream to downstream in the mainstem due to inflow from Tributary X?

 How is riparian vegetation changing with our outreach efforts?)

**What is the primary purpose of the monitoring (check one):**

[ ]  **Baseline –** getting current status of conditions

[ ]  **Effectiveness –** showing improvements or change in conditions

[ ]  **Source -** Determining where contamination is originating

**State the Question(s) you want to answer with the monitoring:**

**How does the question relate to strategies in the Area Plan?**

## D. Monitoring Design

**1. Are there existing data related to your monitoring question? If so, describe briefly and indicate why you need more data.**

**2. Timeline (start to expected finish of entire monitoring project, not just end of biennium):**

**3. Sampling season and frequency:**

**4. Locations:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **DEQ ID#** | **Your ID#** | **Description** | **Latitude\*** | **Longitude\*** | **Why chosen?** |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

 \* In decimal degrees

**5. Sampling methodology?** (*use either one or both tables; delete what you don’t use*)

|  |
| --- |
| **WATER QUALITY** |
| **Parameter** | **Collection Method** *(e.g. “grab” or “logger”)* | **If samples sent to lab, which one?** | **QA/QC protocol** followed *(e.g. “DEQ”)* | **Notes** |
|  |  |  |  |  |
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|  |
| --- |
| **LAND CONDITIONS (with example)** |
| **Parameter(s) to Assess** | Sediment, phosphorus |
| **Name of Method** | “Conversion from flood to sprinkler” |
| **Overview of Method** | Calculate number of and percent of acres in different classes related to sprinkler type (surrogate for quality and quantity of field runoff) |
| **Assessment Area** | All irrigated fields |
| **Metric (Units Measured)** | Total acres and percentage in each class |
| **Pre-Assessment Method** | In GIS, create a polygon for each field. Identify irrigation type for each field via drive-bys and site visits. Add to attribute table in GIS. |
| **Post-Assessment Method** | Repeat pre-assessment method at 2 year intervals |
| **Assessment Classes** | Class 1 = Pivot/swipe/linearClass 2 = Other sprinklers (e.g. wheel line, big gun, solid set)Class 3 = Flood irrigation |

**6. Metrics to track over time** (e.g. annual median mg/L nitrate, % acres in Class 3):

**7. Data Management (who and how)**:

**8. Data analysis (who and how)**:

**9. How you will ensure quality data** (e.g. DEQ-approved SAP):

**10. How and when you will submit data to DEQ** (ODA expects the majority of water quality data to be submitted to DEQ annually; any exceptions need to be agreed to by the RWQS and the Assessment and Reporting Lead. Data could be submitted via the Volunteer Monitoring program or Call For Data.

**11. Results:a. How will you present them** (e.g. annual report)?

 **b. How will you make them available to public** (e.g. website, presentation at LAC meeting)?

 **c. When will ODA receive written reports**?

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| --- | --- | --- |
| **ITEM** | **UNITS and COSTS** | **TOTAL COST** |
| **Sample collection (staff time)** |  |  |
| **Mileage** |  |  |
| **Lab analysis** |  |  |
| **Sampling equipment** |  |  |
| **Data analysis and reporting** |  |  |
| **TOTAL** |  |  |

## E. What will ODA pay for?

# F. Planned Activities (once approved, enter in SOW Task 4)

|  |  |
| --- | --- |
| **Q** | **Activities Planned** |
| **1** |  |
| **2** |  |
| **3** |  |
| **4** |  |
| **5** |  |
| **6** |  |
| **7** |  |
| **8** |  |