

**California Department of Water Resources
Enterprise GIS Data Set
Initial Stewardship Plan (ISP)**

Data Set Name: i07_Station^S_Monitor_EMP
Feature Dataset: i07_Stations_Phytoplankton
Feature Class: i07_Station^S_Phyto_Active

ISP Submittal Date: 11/09/2015

Data Set Steward Name: Tiffany Brown

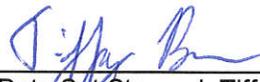
Department of Water Resources
Division of Environmental Services
3500 Industrial Blvd, West Sacramento, CA 95691
(916) 376-9723
email [Tiffany Brown](mailto:Tiffany.Brown@water.ca.gov)

Data Set Steward Organization within DWR:

Division of Environmental Services
Office of Water Quality
Environmental Water Quality and Estuarine Studies Branch
Bay-Delta Monitoring and Analysis

Data Set Sub-Steward Names: DES GIS Unit, Melody Baldwin

Stewardship Roles & Responsibilities Signoffs:



Data Set Steward, Tiffany Brown

11-9-15

Date

Geodatabase Administrator, Greg Twist

Date



Data Set Sub-steward, Melody Baldwin

11/9/15

Date

DWR Enterprise GIS Committee Signoff:

Chair, DWR EGC

Date

Enterprise GIS Dataset Stewardship

Identified Candidate Dataset

Data Set Name: i07_Stations_Monitor_EMP

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Study Mandate and Objective

The State Water Resources Control Board ([SWRCB](#)) sets water quality objectives to protect beneficial uses of water in the Sacramento-San Joaquin Delta and Suisun Bay. These objectives are met by establishing standards mandated in water right permits issued to the Department of Water Resources (DWR) and U.S. Bureau of Reclamation (USBR) by the SWRCB. The standards include minimum Delta outflows, limits to Delta water export by the State Water Project (SWP) and the Central Valley Project (CVP), and maximum allowable salinity levels.

General Information

The study area includes the Delta within its legal boundaries, Suisun Bay and Suisun Marsh, and northeastern San Pablo Bay bounded by a line between Pinole Point on the east and the Solano County line on the north shore. The EMP sampling sites range from San Pablo Bay east through the upper Estuary to the mouths of the Sacramento, Mokelumne, and San Joaquin rivers. These sites represent the main inflows and outflows of the Sacramento-San Joaquin Delta, and Suisun Bay and Suisun Marsh. Currently, 15 sites are sampled monthly.

Name and Location Information for Phytonplankton Sampling Sites – Active

| | |
|-------|--|
| C3A | Sacramento River @ Hood |
| C10A | San Joaquin River near Vernalis |
| D4 | Sacramento River above Point Sacramento |
| D6 | Suisun Bay @ Bulls Head near Martinez |
| D7 | Grizzly Bay @ Dolphin near Suisun Slough |
| D8 | Suisun Bay off Middle Point near Nichols |
| D19 | Frank's Tract near Russo's Landing |
| D26 | San Joaquin River @ Potato Point |
| D28A | Old River @ Rancho Del Rio |
| D41 | San Pablo Bay near Pinole Point |
| D41A | San Pablo Bay near the mouth of the Petaluma River |
| MD10A | Disappointment Slough @ Bishop Cut |
| P8 | San Joaquin River @ Buckley Cove |
| EZ2 | Entrapment Zone - 2000 μ S/cm bottom EC |
| EZ6 | Entrapment Zone - 6000 μ S/cm bottom EC |

Enterprise GIS Dataset Stewardship

Geodatabase Management Plan

Data Set Name: i07_Stations_Monitor_EMP
Feature Dataset: i07_Stations_Phytoplankton
Feature Class: i07_Stations_Phyto_Active

Data Set Steward Name: Tiffany Brown

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Feature Class details

- **Size of geodatabase:** 20 KB to 48 KB
- **Feature Class:** 8KB to 10KB
- **Geodatabase:** Point features for monitoring stations within the EMP
- **Updates** to the geodatabase will be done by the sub steward when needed. The Steward and sub steward will meet once a year to discuss if changes are needed.
- **Steward** will notify the sub steward of any monitoring station changes
- The **sub steward** will update the Enterprise Geodatabase after Steward updates any monitoring stations for the Benthos Program
- Currently there are no plans for versions or archiving
- Geodatabase with one feature class labeled:

i07_Stations_Phyto_Active

Enterprise GIS Dataset Stewardship

Archiving & Maintenance Plan

Archiving & Maintenance Plan

Data Set Name: i07_Stations_Monitor_EMP

Feature Dataset: i07_Stations_Phytoplankton

Feature Class: i07_Stations_Phyto_Active

Data Set Steward Name: Tiffany Brown

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Name and Location Information for Phytoplankton Sampling Sites – Point

1. Update procedure will be once a year review or as needed
2. Activated monitoring stations will be added as needed.
3. The estimated annual cost for data maintenance is within the ES program.
4. Re-certifying data meets standards will be done with all updates to stations made by the Steward.
5. The EGC should be notified when there are program data changes or updates.
6. Metadata will be updated as needed.
7. Archiving and versioning are not needed at this time. This is a static dataset. A review of the policy will be made at any update or change.

**Enterprise GIS Dataset Stewardship
Data Model**

Data Set Name: i07_Stations_Monitor_EMP

Feature Dataset: i07_Stations_Phytoplankton

Feature Class: i07_Stations_Phyto_Active

Data Set Steward Name: Tiffany Brown
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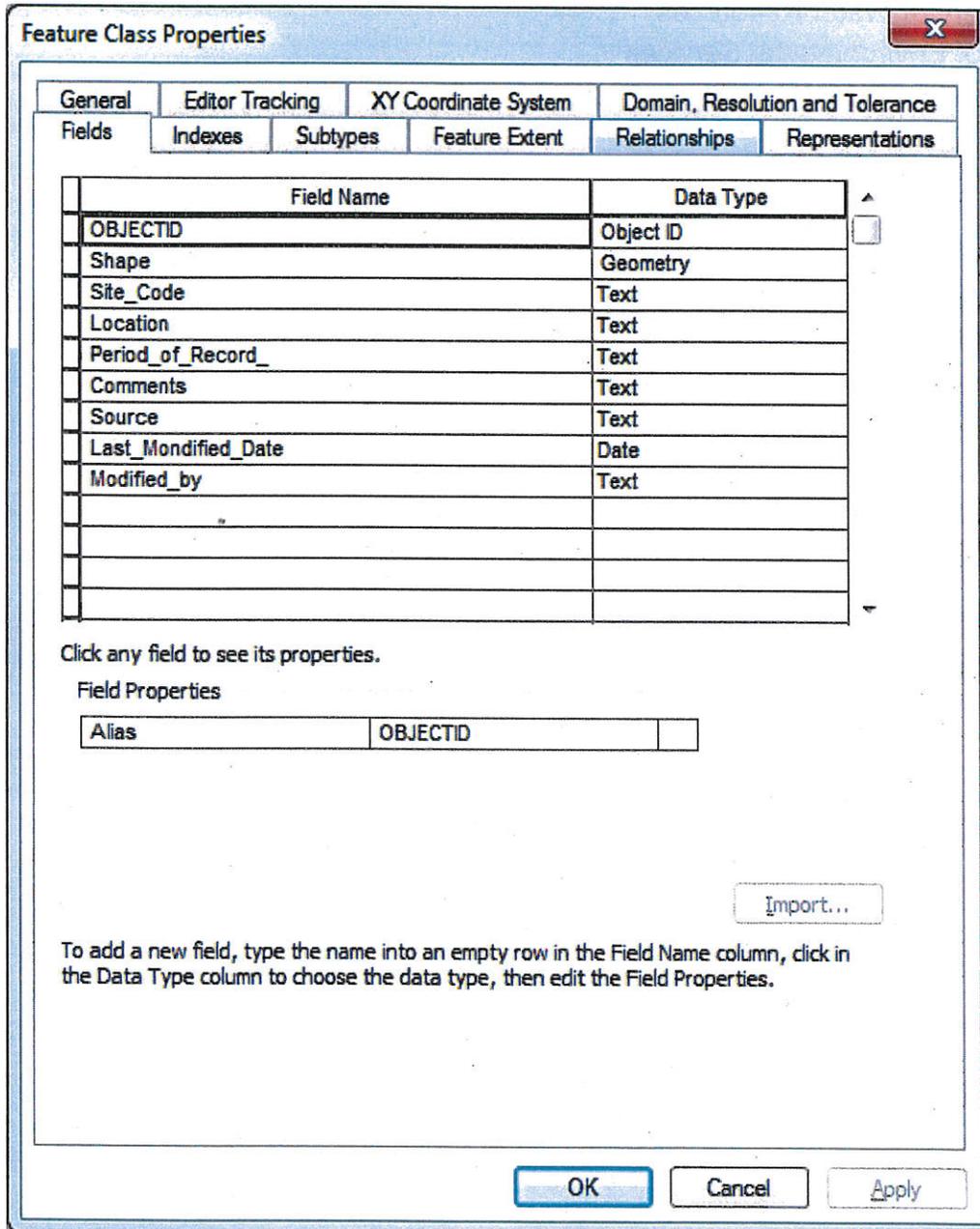
Phytoplankton_Monitoring_Stations_Active
Data fields in the attribute table include the following:

| Field | Data Type | Description |
|--------------------|---------------|---|
| ***ID | Object ID | Auto generated by ArcMap |
| Site_Code | Text | DWR Station ID |
| Location | Text | Description of Location |
| Start_Date | Short Integer | Year monitor was activated |
| Missing_Data | Short Integer | Years which do not have data |
| Old_Code | Text | Refers to the code the monitoring station used before this code |
| Current_Status | Text | Active |
| Comments | Text | Blank to fill in as needed |
| Source | Text | Data Source is DWR |
| Last_Modified_Date | Date | Date update was made |
| Modified_By | Text | Last person to update database |

Study Area and Sample Sites

Geographic coverage of the sampling sites ranges from San Pablo Bay east through the upper Estuary to the mouths of the Sacramento, Mokelumne and San Joaquin rivers. The study area currently comprises 15 sites that are sampled monthly.

Data Model Schema



Feature Class Properties

General Editor Tracking XY Coordinate System Domain, Resolution and Tolerance

Fields Indexes Subtypes Feature Extent Relationships Representations

| Field Name | Data Type |
|--------------------|-----------|
| OBJECTID | Object ID |
| Shape | Geometry |
| Site_Code | Text |
| Location | Text |
| Period_of_Record_ | Text |
| Comments | Text |
| Source | Text |
| Last_Modified_Date | Date |
| Modified_by | Text |
| | |
| | |
| | |

Click any field to see its properties.

Field Properties

| | |
|-------|----------|
| Alias | OBJECTID |
|-------|----------|

Import...

To add a new field, type the name into an empty row in the Field Name column, click in the Data Type column to choose the data type, then edit the Field Properties.

OK Cancel Apply

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Feature Dataset: i07_Stations_Phytoplankton
Feature Class: i07_Station_S_Phyto_Historic

ISP Submittal Date: 11/09/2015

Data Set Steward Name: Tiffany Brown

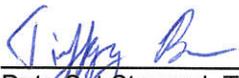
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Data Set Sub-Steward Names: DES GIS Unit, Melody Baldwin

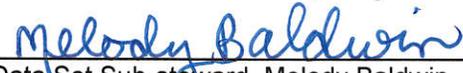
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11-9-15

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Enterprise GIS Dataset Stewardship

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Study

The phytoplankton monitoring program is one element of DWR's and USBR's Bay-Delta Monitoring and Analysis Section (EMP) conducted under the Interagency Ecological Program (IEP) umbrella. There are 33 historic monitoring sites for phytoplankton.

General Information

Geographic coverage of the sampling sites ranges from San Pablo Bay east through the upper Estuary to the mouths of the Sacramento, Mokelumne, and San Joaquin rivers. The study area currently consists of 15 sites that are sampled monthly. There are 33 historic monitoring sites.

Name and location information for Phytoplankton sampling sites – Historic

| | |
|------|---|
| C3 | Sacramento River @ Greenes Landing |
| C6 | San Joaquin River at Brandt Bridge |
| C7 | San Joaquin River @ Mossdale Bridge |
| C9 | West Canal @ Clifton Court Intake |
| D10 | Sacramento River @ Chipps Island |
| D11 | Sherman Lake near Antioch |
| D12 | San Joaquin River @ Antioch Ship Channel |
| D14A | Big Break near Oakley |
| D15 | San Joaquin River @ Jersey Point |
| D16 | San Joaquin River @ Twitchell Island |
| D2 | Suisun Bay near Preston Point |
| D22 | Sacramento River @ Emmaton |
| D24 | Sacramento River below Rio Vista Bridge |
| D27 | Rock Slough at Contra Costa Canal Intake |
| D42 | San Pablo Bay near Mare Island |
| D9 | Honker Bay near Wheeler Point |
| MD1 | Sacramento River below Walnut Grove |
| MD10 | Disappointment Slough @ Bishop Cut |
| MD11 | San Joaquin River near Mokelumne River |
| MD2 | Georgiana Slough above Mokelumne River |
| MD3 | MD3 |
| MD4 | Turner Cut near Bates Landing |
| MD5 | Middle River North of Bacon Island Bridge |
| MD6 | Sycamore Slough near the mouth of the Mokelumne River |
| MD7 | South Fork Mokelumne below Sycamore Slough |
| MD7A | Little Potato Slough @ Terminous |
| MD8 | San Joaquin River in Mandeville Reach |
| MD9 | White Slough above Honker Cut |
| P10 | Middle River @ Victoria Canal |
| P12 | Old River @ Tracy Road Bridge |
| P12A | Old River @ Oak Island |
| P2 | Mokelumne River @ Franklin Road bridge |
| S42 | Suisun Slough 300' south of Volanti Slough |

Enterprise GIS Dataset Stewardship

Geodatabase Management Plan

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- The **sub steward** will update the Enterprise Geodatabase after Steward updates any monitoring stations for the Benthos Program
- Currently there are no plans for versions or archiving
- Geodatabase with one feature class labeled:

i07_Stations__Phyto_Historic

Enterprise GIS Dataset Stewardship

Archiving & Maintenance Plan

Data Set Name: i07_Stations_Monitor_EMP
Feature Dataset: i07_Stations_Phytoplankton
Feature Class: i07_Stations_Phyto_Historic

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Data Model

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Feature Class: i07_Stations_Phyto_Historic

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Phytoplankton_Monitoring_Stations_Historic

Data fields in the attribute table include the following:

| Field | Data Type | Description |
|------------------|-----------|--|
| ***ID | Object ID | Auto generated by ArcMap |
| Site_Code | Text | DWR Station ID |
| Location | Text | Description of Location of monitoring stations |
| Period of Record | Text | List of years data is recorded |
| Shape | Text | Point |

Study Area and Sample Sites

Geographic coverage of the sampling sites ranges from San Pablo Bay east through the upper Estuary to the mouths of the Sacramento, Mokelumne and San Joaquin rivers. The study area currently comprises 33 sites that are sampled in the past.

Data Model Schema

