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

Data Set Name: i07_Stations_Monitor_EMP
Feature Dataset: i07_Stations_Discrete_WaterQua
Feature Class: i07_Stations_Discrete_WQ_Active

ISP Submittal Date: 11/09/2015

Data Set Steward Name: Sarah Lesmeister
Department of Water Resources
Division of Environmental Services
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(916) 375-9741
email Sarah Lesmeister

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:

Sarah Lesmeister — 11/09/15
Data Set Steward, Sarah Lesmeister — Date

Geodatabase Administrator, Greg Twist — Date

Melody Baldwin — 11/09/15
Data Set Sub-steward, Melody Baldwin — Date

DWR Enterprise GIS Committee Signoff: — Date

Chair, DWR EGC — Date

Enterprise GIS Dataset Stewardship

Identified Candidate Dataset

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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, 24 sites are sampled monthly throughout the year and three sites are sampled monthly during certain seasons.

Name and Location Information for Discrete Water Quality Sampling Sites – Active

C10A	San Joaquin River near Vernalis @ SJR Club
C3A	Sacramento River @ Hood
D10	Sacramento River @ Chipps Island
D12	San Joaquin River @ Antioch Ship Channel
D16	San Joaquin River @ Twitchell Island
D19	Frank's Tract near Russo's Landing
D22	Sacramento River @ Emmaton
D26	San Joaquin River @ Potato Slough
D28A	Old River @ Rancho Del Rio
D4	Sacramento River above Point Sacramento
D41	San Pablo Bay near Pinole Point
D41A	San Pablo Bay near Mouth of Petaluma River
D6	Suisun Bay @ Bulls Head nr. Martinez
D7	Grizzly Bay @ Dolphin nr. Suisun Slough
D8	Suisun Bay off Middle Point nr. Nichols
EZ2	Entrapment Zone -2000 µS/cm bottom EC
EZ6	Entrapment Zone -6000 µS/cm bottom EC
MD10A	Disappointment Slough @ Bishop Cut
NZ002	Carquinez Striate near Glencove Harbor
NZ004	Carquinez Striate near Ozol Pier
NZ032	Montezuma Slough, 2nd bend from mouth
NZ325	San Pablo Bay near Rock Wall and Light 15
NZS42	Suisun Slough @ Volanti Slough
P8	San Joaquin River @ Buckley Cove

Currently, 24 sites are sampled monthly throughout the year and three sites are sampled monthly during certain seasons.

Enterprise GIS Dataset Stewardship

Geodatabase Management Plan

Data Set Name: i07_Stations_Monitor_EMP
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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_Discrete_WQ_Active

Enterprise GIS Dataset Stewardship

Archiving & Maintenance Plan

Data Set Name: i07_Stations_Monitor_EMP
Feature Dataset: i07_Stations_Discrete_WaterQua
Feature Class: i07_Stations_Discrete_WQ_Active

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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 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_Discrete_WaterQua
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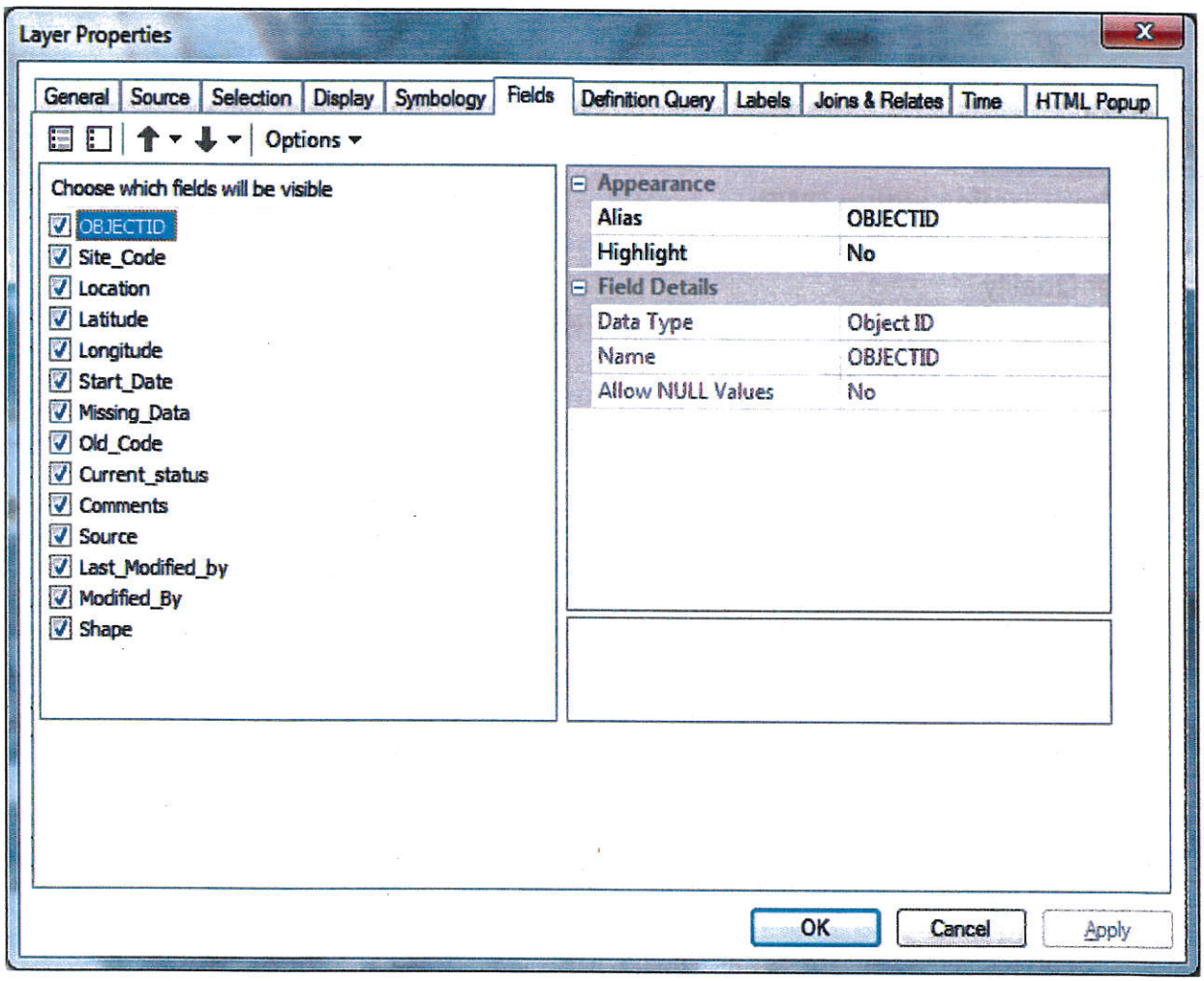
Stations_Discrete_WQ_Active
Data fields in the attribute table include the following:

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.

Data Model Schema



California Department of Water Resources
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Data Set Name: i07_Stations_Monitor_EMP
Feature Dataset: i07_Stations_Discrete_WaterQua
Feature Class: i07_Stations_Discrete_WQ_Hist

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Name and Location Information for Discrete Water Quality Sampling Sites – Historic

C3	Sacramento River @ Green's Landing
C10	San Joaquin River near Vernalis
C7	San Joaquin River @ Mossdale Bridge
C9	West Canal @ Clifton Court
D11	Sherman Lake near Antioch
D14A	Big Break near Oakley
D15	San Joaquin River @ Jersey Point
D2	Suisun Bay near Preston Point
D24	Sacramento River below Rio Vista Bridge
D42	San Pablo Bay near Mare Island
D9	Honker Bay near Wheeler Point
MD10	Disappointment Slough @ Bishop Cut
MD6	Sycamore Slough near Mouth
MD7	South Fork Mokelumne below Sycamore Slough
MD7A	Little Potato Slough @ Terminous
P10	Middle River @ Victoria canal
P10A	Middle River @ Union Pt.
P12	Old River @ Tracy Road Bridge
P12A	Old River @ Oak Island
P2	Mokelumne River @ Franklin bridge
S42	Suisun Slough 300' south of Volanti Slough

Currently, 24 sites are that are inactive and referred to as historic.

Enterprise GIS Dataset Stewardship

Geodatabase Management Plan

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Enterprise GIS Dataset Stewardship

Archiving & Maintenance Plan

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