VI. IEP Data Management Plan

YEAR:	PEN:	DATE UPDATED:
2019	073	2018-04-26

STUDY TITLE:

Dissolved Oxygen Monitoring in the Stockton Ship Channel

PRINCIPAL INVESTIGATOR: Individual(s) responsible for the project. Include name, agency, e-mail, & phone.

Sarah Lesmeister; California Department of Water Resources (DWR); Sarah.Lesmeister@water.ca.gov; (916) 376-9741

POINT OF CONTACT: Individuals who data users should contact for access to the data or questions about the data. Include name, agency, e-mail, & phone number or write “same as above.”

Jenna Rinde; California Department of Water Resources; Jenna.Rinde@water.ca.gov; 916-376-9644

DATA DESCRIPTION: A very brief description of the information to be gathered; the nature and scale of the data that will be generated or collected.

Monitoring is conducted approximately every two weeks via research vessel on 12 monitoring cruises from June to November. During each of the monitoring cruises, 14 sites are sampled at low water slack, beginning at Prisoners Point in the central Delta and ending at the Stockton Turning Basin at the terminus of the channel. Discrete samples are taken from the top (one meter from the surface) and bottom (one meter from the bottom) of the water column at each station at low water slack. Top and bottom dissolved oxygen, water temperature, and specific conductance values are measured using a YSI 6600 or EXO 2 multi-parameter sonde.

RELATED DATA: Optional. Existing datasets that you incorporate into analysis and reporting for this program element, existing data that are relevant to your study, or data that are collected simultaneously.

One site out of the 14 stations (Light 40/P8/Rough and Ready Island) is the same site where the Environmental Monitoring Program (EMP) collects discrete and continuous water quality, zooplankton, and benthos.

METADATA: A description of the metadata to be provided along with the generated data, including the metadata standards used. Provide the file name and information on how users can access the metadata (e.g., a link).

The metadata is stored in various formats such as text files and word documents. The near goal is to compile the information into one cohesive document.

STORAGE & BACKUP: A description of the short-term storage methods and backup procedures for the data, including the physical and electronic resources to be used for the short-term storage of the data.

The discrete water quality data on WDL is stored permanently in an Oracle database and is backed up once a year that is managed by the Division of Technical Services (DTS). Laboratory reports from Bryte Laboratory are stored under DWR's Division of Environmental Sciences (DES’s) server that is stored by DTS that is backed up daily. Field data sheets are scanned after each field run and also stored on the DES server.

ARCHIVING & PRESERVATION: The procedures for long-term archiving and preservation of the data, including succession plans for the data should the expected archiving entity go out of existence.

All discrete water quality data is stored permanently by DTS. Old reports and datasheets are scanned and stored on a DES server, which is backed up daily. Printed copies of datasheets and reports are also stored in a warehouse.

ACCESS & SHARING: A description of how data will be shared. Include (1) access procedures, (2) embargo periods, (3) technical mechanisms for dissemination (e.g., website addresses, listserv information), (3) whether access will be open or granted only to specific user groups, and (4) a timeframe for data sharing and publishing.

Data is open and shared through e-mail requests to jenna.rinde@water.ca.gov. Summary reports are created after each monitoring run, which are then distributed to an e-mail list within one week of sampling. Data is available to share typically within 1-2 weeks of each sampling run.

FORMAT: Formats in which the data will be generated, maintained, and made available. Include BOTH general data type (e.g., spreadsheet, relational database) and file format (extension). Include approximate size (in MB) of the resulting data set.

Data is stored in an Excel spreadsheet as .xlsx format. Data from 1997 - 2017 is 253 KB and data from 1968 - 1996 is 289 KB for a total of 0.542 MB (542 KB).

QUALITY ASSURANCE: Brief description of procedures for ensuring data quality. Provide links to Quality Assurance Project Plan and/or QA/QC Standard Operating Procedures.

All field data is entered into an Excel spreadsheet typically within 48 hours of the field run. The data is verified by another individual to ensure data accuracy. The YSI 6600 sondes follow the manufacturer's recommendations for calibration. The sondes are calibrated prior to each field run and are verified with a post-check verification after each field run.

RIGHTS & REQUIREMENTS: A link to or instructions to locate the agency’s rights and requirements for data use

None.