IEP Data Management Plan

Basic Information

Year: 2020; PEN:073; Date Updated: 2019-10-17; Start Date: 1997-08-08

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. Include approximate size (in MB) of the resulting data set.

When discrete monitoring is initiated, four stations are visited to collect surface and bottom dissolved oxygen data above and below the continuous water quality station P8A (also known as RRI). A YSI EXO-2 multi-parameter sonde is utilized to record measurements for dissolved oxygen, water temperature, specific conductance, pH, turbidity and fluorescence. Historically, 14 sites were sampled during summer and fall 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. The total size of the dataset is 0.326 MB.

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.

The continuous water quality station P8A is incorporated into the analysis from IEP's Environmental Monitoring Program (EMP) with Scott Waller as the primary contact. In

addition, P8 is an associated station from the EMP, which collects discrete water quality, phtyoplankton, zooplankton, and benthos with Sarah Lesmeister as the contact.

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).

Metadata, including citation information, geographic scope, and QA/QC procedures is available online in [Ecological Metadata Language](#) and updated annually.

Storage and 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 is located on a shared drive housed by DWR. This server is back up in its entirety daily by DWR's Division of Technology Services. An additional back up version of the data are stored on a USB drive, which is updated after each completed run.

Archiving and 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.

Data is currently preserved on paper sheets and in digital format. Paper data sheets are stored in binders in the Environmental Scientist's cubicle. Digital data is stored on DWR's server and yearly updates are posted on the Environmental Data Initiative data repository in .csv format.

Access and 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 will be shared yearly on the [Environmental Data Initiative data repository](#). Summary reports are generated after each monitoring run, which are then distributed to an e-mail listserv within one week of sampling. Other requests can be e-mailed to jenna.rinde@water.ca.gov.

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).

Data is stored in an Excel spreadsheet as .xlsx format. Data from 1997 - 2018 is 0.326 MB and data from 1968 - 1996 is 0.289 MB for a total of 0.615 MB.

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 EXO-2 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 and Requirements

A link to or instructions to locate the agency's rights and requirements for data use.

None.