

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

MONITORING AND REPORTING PROGRAM R5-2015-XXXX
FOR
FOLSOM DAM AUXILIARY SPILLWAY PROJECT
SACRAMENTO COUNTY

This Monitoring and Reporting Program (MRP) describes requirements for monitoring dredging operations, dredged materials, effluent, and receiving waters in accordance with the requirements of the Waste Discharge Requirements R5-2015-XXXX. This MRP is issued pursuant to Water Code Section 13267. The Discharger shall not implement any changes to this MRP unless a revised MRP is issued by the Executive Officer.

All samples should be representative of the volume and nature of the discharge or matrix of material sampled. The time, date, and location of each grab sample shall be recorded on the sample chain of custody form.

Field test instruments (such as those used to test pH, turbidity, and dissolved oxygen) may be used provided that:

1. The operator is trained in proper use and maintenance of the instruments;
2. The instruments are calibrated daily according to manufacturer specifications;
3. Instruments are serviced and/or calibrated by the manufacturer at the recommended frequency; and
4. Field calibration reports are submitted as described in the "Reporting" section of this MRP.

In the event that any turbidity measurements exceed the limits, dredging operations and/or discharge shall cease immediately, and an additional water sample shall be taken immediately at the point of exceedance. The report of turbidity exceedance and steps taken to comply with the provisions of this Order shall be reported immediately by phone, fax or email to the Regional Water Board. Dredging and/or discharge shall be suspended until turbidity levels return to levels in compliance, or as otherwise instructed by the Central Valley Water Board.

DREDGE OPERATION MONITORING

Sampling, described in the Dredge Operation Monitoring Table of this MRP, shall be conducted anytime in-water dredging operations are performed. Visual Observations shall be taken at both the dredge operation and the compliance points. Grab samples shall be taken at approximately 2/3 of the total depth of the water body, and shall be taken from the following stations:

<u>Station</u>	<u>Description</u>
R-1	Up-current, upwind, or at a location undisturbed by the dredging operation, not to exceed 300 feet from the dredge operation.
R-2	Within 300 feet down-current (or downwind) of the dredging operation.

Samples shall be collected and analyzed from Stations R-1 and R-2 as follows:

DREDGE OPERATION MONITORING TABLE

Parameter	Unit	Type of Sample	Minimum Sampling Frequency	Required Analytical Test Method
Turbidity	NTU	Grab	Every 4 hours during in-water work	(1)
Settleable Material	ml/l	Grab	Every 4 hours during in-water work	(1)
Visible construction related pollutants ⁽²⁾	Observations	Visual Inspections	Continuous throughout the construction period	—
pH	Standard Units	Grab	Every 4 hours during in-water work	(1)
Dissolved Oxygen (DO)	mg/l & % saturation	Grab	Every 4 hours during in-water work	(1)

⁽¹⁾ Pollutants shall be analyzed using the analytical methods described in 40 Code of Federal Regulations Part 136; where no methods are specified for a given pollutant, the method shall be approved by Central Valley Water Board staff.

⁽²⁾ Visible construction-related pollutants include oil, grease, foam, fuel, petroleum products, and construction-related, excavated, organic or earthen materials.

RECEIVING WATER MONITORING

The Discharger shall conduct receiving water monitoring when discharging to surface waters. If no discharge is occurring, then receiving water monitor does not need to be performed. Receiving water monitoring stations are located as follows:

<u>Station</u>	<u>Description</u>
R-3	Up-current, upwind, or at a location undisturbed by the dredging operation, not to exceed 300 feet from the dredge operation.
R-4	Within 300 feet down-current (or downwind) of the dredging operation.

Receiving water monitoring shall include at least the following:

RECEIVING WATER MONITORING TABLE

Parameter	Unit	Type of Sample	Minimum Sampling Frequency	Required Analytical Test Method
Turbidity	NTU	Grab	Every 4 hours during in-water work	(1)
Settleable Material	ml/l	Grab	Every 4 hours during in-water work	(1)
Visible construction related pollutants ⁽²⁾	Observations	Visual Inspections	Continuous throughout the construction period	—
pH	Standard Units	Grab	Every 4 hours during in-water work	(1)
Dissolved Oxygen (DO)	mg/l & % saturation	Grab	Every 4 hours during in-water work	(1)

⁽¹⁾ Pollutants shall be analyzed using the analytical methods described in 40 Code of Federal Regulations Part 136; where no methods are specified for a given pollutant, the method shall be approved by Central Valley Water Board staff.

⁽²⁾ Visible construction-related pollutants include oil, grease, foam, fuel, petroleum products, and construction-related, excavated, organic or earthen materials.

In addition to the monitoring described in the Receiving Water Monitoring Table, additional constituents of concern may be identified by the Regional Water Board staff.

When conducting the receiving water sampling, a log shall be kept of the receiving water conditions. Notes on receiving water conditions shall be summarized in the monitoring report.

Attention shall be given to the presence or absence of:

- a. Floating or suspended matter
- b. Discoloration
- c. Bottom deposits
- d. Aquatic life
- e. Visible films, sheens, or coatings
- f. Fungi, slimes, or objectionable growths
- g. Potential nuisance conditions
- h. Flow Direction
- i. Upstream Conditions

DREDGE MATERIAL REUSE MONITORING

The Discharger shall be required to implement a monitoring program for upland placement or reuse applications that have a significant potential for impacting water quality either through surface erosion and/or leaching to groundwater. As required, monitoring for erosion shall continue until the Discharger has demonstrated that erosion control measures have adequately stabilized the placed dredged material.

REPORTING

The specified parameters shall be monitored as previously described, and reported at a minimum of once per month, with violations reported to the Central Valley Water Board Staff within 24 hours of the discovery of the violation. This violation notification to Central Valley Water Board can be done by either telephone or e-mail. Written confirmation and description of the violation shall follow within 2 weeks.

If the project is in operation and/or monitoring is required for more than one month, Monthly Monitoring Reports shall be submitted electronically to the Central Valley Water Board Staff no later than 15 days from the end of the month in which monitoring is conducted.

Monthly Monitoring Reports shall include:

- 1 The date, time, manner, and exact place of sampling;
- 2 The name of person(s) taking samples;
- 3 The dates of sample analyses (if any) and the person(s) performing the analyses;
- 4 The analytical methods used;
- 5 The results of the analyses;
- 6 A comparison of monitoring data to the discharge specifications and an explanation of any violation of those requirements;
- 7 Copies of any laboratory analytical report(s); and
- 8 Calibration logs verifying calibration of all hand-held monitoring instruments and devices used to comply with the prescribed monitoring program.

In reporting monitoring data, the Discharger shall arrange the data such that the date, sample type (e.g., effluent, equalization basin, etc.), and reported analytical result for each sample are readily discernible. The data shall be summarized in such a manner to clearly illustrate compliance with waste discharge requirements and spatial or temporal trends, as applicable. The results of any monitoring done more frequently than required at the locations specified in the MRP shall be reported to the Central Valley Water Board.

A letter transmitting the self-monitoring reports shall accompany each report. This letter shall include a discussion of requirement violations found during the reporting period, and actions taken or planned for correcting noted violations, such as operation or facility modifications. If the Discharger has previously submitted a report describing corrective actions and/or a time schedule for implementing the corrective actions, reference to the previous correspondence will be satisfactory. The transmittal letter shall contain the penalty

of perjury statement by the Discharger, or the Discharger's authorized agent, as described in the Standard Provisions General Reporting Requirements Section B.3.

The Discharger shall implement the above monitoring program as of the date of this Order.

Ordered by: _____
PAMELA C. CREEDON, Executive Officer

(Date)