
Central Valley Regional Water Quality Control Board

22 May 2017

Pamela O. Patton
U.S. Army Corps of Engineers
Sacramento District
1325 J Street
Sacramento, CA 95814

CERTIFIED MAIL
91 7199 9991 7035 8418 5032

**ORDER AMENDING NOTICE OF APPLICABILITY
WASTE DISCHARGE REQUIREMENTS
FOR THE STOCKTON DEEP WATER SHIP CHANNEL MAINTENANCE DREDGING
ACTIVITIES FROM CHANNEL MILE 4.4 TO 41.0
ORDER R5-2004-0061-001**

**UNITED STATES ARMY CORPS OF ENGINEERS AND THE PORT OF STOCKTON
2016 STOCKTON DEEP WATER SHIP CHANNEL MAINTENANCE DREDGING PROJECT
CONTRA COSTA, SACRAMENTO, AND SAN JOAQUIN COUNTIES**

This Order responds to the 3 May 2017 request to amend the 2016 Stockton Deep Water Ship Channel Maintenance Dredging Project Notice of Applicability under Waste Discharge Requirements for the Stockton Deep Water Ship Channel Maintenance Dredging Activities from Channel Mile 4.4 to 41.0, Order R5-2004-0061-001 (Order) for annual maintenance dredging of the Stockton Deep Water Ship Channel (DWSC). The original Notice of Applicability (NOA) was issued on 26 August 2016. The requested amendment is hereby approved. The original NOA is therefore amended as described below. Please attach this document to the original NOA.

AMENDMENT:

Due to extra high flows and sedimentation from this winter's above normal precipitation and runoff from the San Joaquin River watershed, the United States Army Corps of Engineers is requesting to: 1) include two (2) emergency dredging sites; 2) obtain approval to discharge dredged materials to Rough and Ready Island; and 3) modify the timeframe to implement the emergency project. The higher flows and sedimentation is reducing the navigational depth near Navigation Aid Light 19 (Lt. 19) and in the sediment trap (Lt. 48) located at the confluence of the San Joaquin River and the Stockton DWSC near the Port of Stockton. Based on the current rate of sediment deposition, it is estimated that the DWSC will be cutoff by the sediment trap in July 2017. In addition, as the navigational depth is reduced, this will make it difficult to safely navigate through the DWSC without jeopardizing the safety of the vessel and crew.

Lt. 19 and Lt. 48 will be dredged to re-establish the 35-foot authorized depth near Lt. 19, and 40-foot channel bottom at Lt. 48. Rough and Ready Island will be used as a dredge material disposal site.

The NOA is amended as shown in underline/strikeout format in Attachment 1.

CALIFORNIA ENVIRONMENTAL QUALITY ACT:

The Port of Stockton is the Lead Agency responsible for compliance with the California Environmental Quality Act for the Twitchell and Mandeville Island Dredged Material Placement Site Project pursuant to Section 21000 et seq. of the Public Resources Code. The Port of Stockton approved the Mitigated Negative Declaration on 1 August 2016. The Port of Stockton filed a Notice of Determination with the State Clearinghouse on 2 August 2016 (SCH No. 2015072029). The Central Valley Water Board relied on the Mitigated Negative Declaration when approving the project.

The Central Valley Water Board has reviewed and evaluated the impacts to water quality identified in the Mitigated Negative Declaration. The Central Valley Water Board finds that the mitigation measures discussed in the Mitigated Negative Declaration to minimize project impacts to State waters are adequate, and such measures are hereby required and incorporated by reference in this Notice of Applicability.

With regard to the remaining impacts identified in the Mitigated Negative Declaration, the corresponding mitigation measures proposed are within the responsibility and jurisdiction of other public agencies.

In accordance with Discharge Specifications C.1, the Central Valley Water Board approves the discharge of dredged materials to Rough and Ready Island for direct placement and/or beneficial reuse.

I hereby issue an Order amending the existing Notice of Applicability, Waste Discharge Requirements for the Stockton Deep Water Ship Channel Maintenance Dredging Activities from Channel Mile 4.4 to 41.0 (Order R5-2004-0061-001). All other conditions and provisions of the original Notice of Applicability and any previously approved amendments remain in full force and effect, except as modified based on the conditions of this Order. Failure to comply with the terms and conditions of the original Notice of Applicability, previously approved amendments, or of this Order may result in suspension or revocation of the Notice of Applicability.

Original Signed By Adam Laputz for:

Pamela C. Creedon
Executive Officer

cc: (Electronic Copies Only)
Richard Aschieris, Port of Stockton
Arijs Rakstins, United States Army Corps of Engineers, San Francisco District
Chris Goddard, United States Army Corps of Engineers, Sacramento District
Charity Meakes, United States Army Corps of Engineers, Sacramento District

Central Valley Regional Water Quality Control Board

26 August 2016

ATTACHMENT 1

Pamela O. Patton
U.S. Army Corps of Engineers
Sacramento District
1325 J Street
Sacramento, CA 95814

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**NOTICE OF APPLICABILITY
WASTE DISCHARGE REQUIREMENTS
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2016 STOCKTON DEEP WATER SHIP CHANNEL MAINTENANCE DREDGING PROJECT
CONTRA COSTA, SACRAMENTO, AND SAN JOAQUIN COUNTIES**

On 27 July 2016, the United States Army Corps of Engineers (Discharger) filed a Notice of Intent (NOI), requesting coverage under *Waste Discharge Requirements for the Stockton Deep Water Ship Channel Maintenance Dredging Activities from Channel Mile 4.4 to 41.0*, Order R5-2004-0061-001 (Order) for annual maintenance dredging of the Stockton Deep Water Ship Channel (DWSC). After reviewing the NOI submitted by the Discharger, the Central Valley Regional Water Quality Control Board (Central Valley Water Board) has determined that the project qualifies for enrollment under this Order.

The Discharger is hereby assigned R5-2004-0061-001-0001. Please include this number on all correspondence related to this discharge.

A copy of the Order is enclosed. You can also find the Order on the Central Valley Water Board's website at:

http://www.waterboards.ca.gov/centralvalley/board_decisions/adopted_orders/

The project must proceed in accordance with the requirements contained in this Notice of Applicability, Order, and NOI application package. Coverage under this Order is no longer valid if the project (as described in this Notice of Applicability and the NOI application package) is modified.

PROJECT DESCRIPTION:

The 2016 Stockton DWSC Maintenance Dredging Project (Project) will dredge the Stockton DWSC to a 35-foot depth (plus tow-foot allowable overdredge) for navigation of ship traffic to the Port of Stockton. The Discharger will conduct dredging and dredge material disposal activities at the following 1846 reaches and dredge material disposal (DMD) sites as described in Table 1.

Table 1: Dredging and Placement Sites

Reach	Approximate River Mile		Station		Length (ft)	Placement Site	Location	Amount of Dredge Material (cubic yards)
	From	To	From	To				
1	7.48	7.88	395.00	416.00	2,100	Scour Pond	Sherman Island	6,374
2	8.60	9.28	454.00	490.00	3,600	Scour Pond		6,173
3	10.95	11.36	578.00	600.00	2,200	McCormack Pit		9,132
4	11.61	11.88	613.00	627.00	1,400			2,849
5	13.26	13.64	700.00	720.00	2,000	Bradford Island	Bradford Island	10,095
6	15.25	15.38	805.00	812.00	700		3,597	
7	15.49	16.21	818.00	856.00	3,800		143,220	
8	18.62	19.00	983.00	1003.00	2,000	Twitchell North	Twitchell Island	45,023
9	20.74	21.65	1095.00	1143.00	4,800			48,494
10	22.65	23.01	1196.00	1215.00	1,900			20,460
11	23.64	24.17	1248.00	1276.00	2,800			10,429
12	29.55	30.11	1560.00	1590.00	3,000	Roberts Island 2	Roberts Island	12,894
13	30.49	30.97	1610.00	1635.00	2,500		RM 36.5	11,221
14	31.06	31.44	1640.00	1660.00	2,000		7,051	
15	35.70	36.08	1885.00	1905.00	2,000	Roberts Island 1	Roberts Island	2,730
16	39.68	40.02	2095.00	2113.00	1,800		RM 34.5	9,812
<u>STK 1</u>	<u>11.21</u>	<u>11.25</u>	<u>592.00</u>	<u>594.00</u>	<u>200</u>	<u>Rough and Ready Island</u>	<u>Rough and Ready Island</u>	<u>4,010</u>
<u>STK 2</u>	<u>39.68</u>	<u>40.02</u>	<u>2095.00</u>	<u>2113.00</u>	<u>1,800</u>	<u>Rough and Ready Island</u>	<u>Rough and Ready Island</u>	<u>150,000</u>
TOTAL								349,554 503,564

Dredged material will be removed by hydraulic cutter head suction dredge and transported by pipeline for placement onto the DMD sites listed above.

APPROXIMATE TIME FRAME OF PROJECT IMPLEMENTATION:

26 August 2016 to ~~31 October 2016~~ 31 July 2017

PROJECT LOCATION:

Start: Latitude: 38.02826°; Longitude: -121.761071°

End: Latitude: 37.95217°; Longitude: -121.324629°

ADDITIONAL CONDITIONS:
Reuse of Dredged Materials

1. If a proposed reuse location is outside the boundaries of the approved reuse areas as shown on Attachment A, the Discharger shall submit a Notice of Intent to Central Valley Water Board staff for approval prior to reuse. Dredged material is authorized to be reused in locations in which depth-to-groundwater, background soil conditions, distance from surface waters, and/or foundation soil attenuation capacity, are sufficient, with a conservative margin of error, to ensure that no adverse impacts to ground or surface waters will occur. Dredged material may not be reused, without prior authorization from the Central Valley Water Board staff, in locations where direct hydraulic connections or direct contact with surface waters may occur. Dredged material may not be reused, without prior authorization from Central Valley Water Board staff, in sensitive ecological areas, such as wetlands.
2. For all reuse activities undertaken according to this Notice of Applicability, in which a separate NOI has not been submitted, the discharger shall provide the Central Valley Water Board a written notice of the following:
 - 1) Quantity of dredged material removed from DMD site for reuse;
 - 2) Dates of transfer of material;
 - 3) Location of reuse;
 - 4) Name of contractor;
 - 5) Copy of signed contract/manifest for removal of dredged material;
 - 6) Copy of Dredged Material Reuse Agreement signed by end-user which states agreement to all conditions of reuse specified in this Notice of Applicability.
3. Notice of reuse of dredged material shall be provided in writing to the Central Valley Water Board within 30 days of removal from the DMD sites.

Direct beneficial use of dredged material at placement sites other than the DMD sites listed above may be authorized after review and approval by the Central Valley Water Board staff.

Special Studies, Technical Reports, and Additional Monitoring Requirements

1. In addition to the required Receiving Water Monitoring for the DMD Site Discharge described in Monitoring and Reporting Program R5-2004-0061-0001, the Discharger shall monitor for the constituents of concern in Table 2.

Table 2: Receiving Water Monitoring for the DMD Site Discharge

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Mercury	ng/L	24-hr Composite ^d	1x when discharging	a,c
Mercury (methyl)	ng/L	24-hr Composite ^d	1x when discharging	a,c
Total Dissolved Solids	mg/L	24-hr Composite ^d	1x when discharging	a
Biochemical Oxygen Demand (5-day @ 20°C)	mg/L	24-hr Composite ^d	1x when discharging	a
Total Organic Carbon	mg/L	24-hr Composite ^d	1x when discharging	a
Ammonia Nitrogen, Total (as N)	mg/L	24-hr Composite ^d	1x when discharging	a, b
Polycyclic Aromatic Hydrocarbons	µg/L	24-hr Composite ^d	1x when discharging	a
Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Arsenic	µg/L	24-hr Composite ^d	1x when discharging	a
Hardness (as CaCO ₃)	mg/L	Grab	1x when discharging	a
Lead, dissolved	µg/L	24-hr Composite ^d	1x when discharging	a
Zinc, dissolved	µg/L	24-hr Composite ^d	1x when discharging	a

a. Constituent shall be analyzed using the analytical methods described in 40 C.F.R. part 136 or by methods requested by the Discharger that have been approved the Central Valley Water Board or the State Water Board.

b. pH and temperature shall be recorded at the time of ammonia sample collection.

c. Unfiltered methyl mercury and total mercury samples shall be taken using clean hands/dirty hands procedures, as described in U.S. EPA method 1669: Sampling Ambient Water for Trace Metals at EPA Water Quality Criteria Levels, for collection of equipment blanks (section 9.4.4.2), The analysis of methyl mercury and total mercury shall be by U.S. EPA method 1630 and 1631 (Revision E), respectively, with a reporting limit of 0.05 ng/L for methyl mercury and 0.5 ng/L for total mercury.

d. Collect composite samples with a minimum of three grab samples combined into each composite sample. Samples shall be taken for analysis for each of the constituents listed above.

Grab samples shall be taken at two depths: (1) five feet below the surface of the receiving water; and (2) approximately 2/3 of the distance to the bottom. The two grab samples from each station shall be composited in equal volumes resulting in one sample from each station for analysis. Water samples shall be taken from the following stations:

<u>Station</u>	<u>Description</u>
R-3	Upcurrent of the discharge location and undisturbed by the effluent discharge from the DMD site, not to exceed 300 feet from the point of discharge.
R-4	300 feet downstream at the end of the mixing zone.

2. **Mixing Zone Study.** The Discharger shall conduct a mixing zone study for the effluent discharges from the DMD sites to the San Joaquin River. A work plan and schedule for conducting the study shall be submitted to the Central Valley Water Board **within 30 days** after initiation of the discharge to the San Joaquin River. The work plan should include:
- a. a description of the parameters collected for data;
 - b. a description of historical parameter data used;
 - c. a map and description of the sampling locations (i.e., site name, site ID, latitude, and longitude);
 - d. a description of the sampling preparation, equipment calibration and testing, and mixing zone equipment;
 - e. a description of the sample collection methods;
 - f. a description of sample handling and custody;
 - g. a description of the model used in the analysis;
 - h. a sensitivity analysis;
 - i. the critical parameters that impact the analysis (e.g., river flow, river stage, tidal influence, effluent temperature, flow rate, and wind speed);
 - j. a description of the field verification of the model; and
 - k. the results of the model verification.

The mixing zone study shall be completed and submitted to the Central Valley Water Board **with the 2017 Notice of Intent for the annual maintenance dredging activity.**

Under the Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California (SIP):

“A mixing zone shall be as small as practicable. The following conditions must be met in allowing a mixing zone:

A: A mixing zone shall not:

- 1. compromise the integrity of the entire water body;*
- 2. cause acutely toxic conditions to aquatic life passing through the mixing zone;*
- 3. restrict the passage of aquatic life;*
- 4. adversely impact biologically sensitive or critical habitats, including, but not limited to, habitat of species listed under federal or State endangered species laws;*
- 5. produce undesirable or nuisance aquatic life;*
- 6. result in floating debris, oil, or scum;*
- 7. produce objectionable color, odor, taste, or turbidity;*
- 8. cause objectionable bottom deposits;*
- 9. cause nuisance;*
- 10. dominate the receiving water body or overlap a mixing zone from different outfalls; or*
- 11. be allowed at or near any drinking water intake. A mixing zone is not a source of drinking water. To the extent of any conflict between this*

determination and the Sources of Drinking Water Policy (Resolution No. 88-63), this SIP supersedes the provisions of that policy.”

3. The Discharger shall follow SWAMP collection sample guidelines for quality assurance/quality control (QA/QC) evaluation (e.g., field duplicates, travel blanks, and matrix spike/matrix spike duplicate samples), except for the number of travel blanks, which, instead of one per cooler, shall be one per sample site, plus one additional random travel blank taken during the sampling period.
4. The Discharger shall summarize data from the Self Monitoring Reports and Annual Report in an Excel format.

CALIFORNIA ENVIRONMENTAL QUALITY ACT:

The Port of Stockton is the Lead Agency responsible for compliance with the California Environmental Quality Act for the Twitchell and Mandeville Island Dredged Material Placement Site Project pursuant to Section 21000 et seq. of the Public Resources Code. The Port of Stockton approved the Mitigated Negative Declaration on 1 August 2016. The Port of Stockton filed a Notice of Determination with the State Clearinghouse on 2 August 2016 (SCH No. 2015072029).

The Central Valley Water Board is a responsible agency for the project. The Central Valley Water Board has determined that the Mitigated Negative Declaration is in accordance with the requirements of the California Environmental Quality Act.

The Central Valley Water Board has reviewed and evaluated the impacts to water quality identified in the Mitigated Negative Declaration. The Central Valley Water Board finds that the mitigation measures discussed in the Mitigated Negative Declaration to minimize project impacts to State waters are adequate, and such measures are hereby required and incorporated by reference in this Notice of Applicability.

With regard to the remaining impacts identified in the Mitigated Negative Declaration, the corresponding mitigation measures proposed are within the responsibility and jurisdiction of other public agencies.

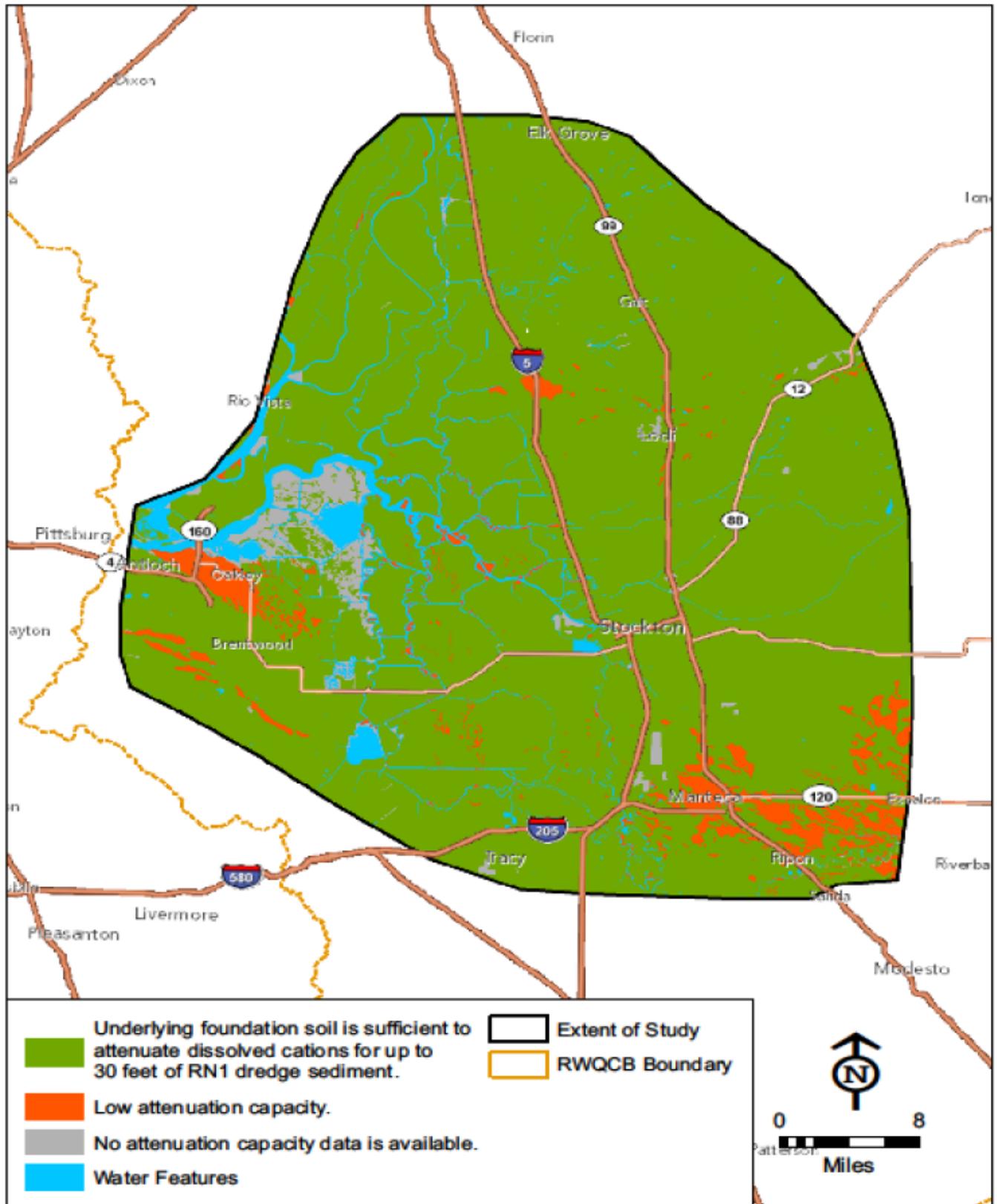
Dredging operations and the subsequent disposal of dredged material, for the reaches described, are authorized under Order R5-2004-0061-001. The Project activities shall be monitored in accordance with the requirements of Monitoring and Reporting Program R5-2004-0061-001, Standard Provisions and Reporting Requirements, dated 1 March 1991, and with the information submitted in the Notice of Intent. Central Valley Water Board staff shall be notified immediately if any nuisance or detriment to receiving waters is observed during the Project activities. Failure to abide by the conditions of the Order may result in an enforcement action as authorized by provisions of the California Water Code.

Upon Project completion, please notify the Central Valley Water Board so that a Notice of Termination may be issued. If you have any questions regarding this Notice of Applicability, contact Dr. Philip Giovannini at (916) 464-4812 or at Phillip.Giovannini@waterboards.ca.gov.

Pamela C. Creedon
Executive Officer

Enclosures: Attachment A – Approved Reuse Area
California Regional Water Quality Control Board, Central Valley Region, Order
No. R5-2004-0061-001, Waste Discharge Requirements for the Stockton Deep
Water Ship Channel Maintenance Dredging Activities from Channel Mile 4.4 to
41.0
Attachment B – Rough and Ready Island Placement Site

cc: (Electronic Copies Only)
Richard Aschieris, Port of Stockton
Arijs Rakstins, United States Army Corps of Engineers, San Francisco District
Chris Goddard, United States Army Corps of Engineers, Sacramento District
Charity Meakes, United States Army Corps of Engineers, Sacramento District



Attachment A – Approved Reuse Area

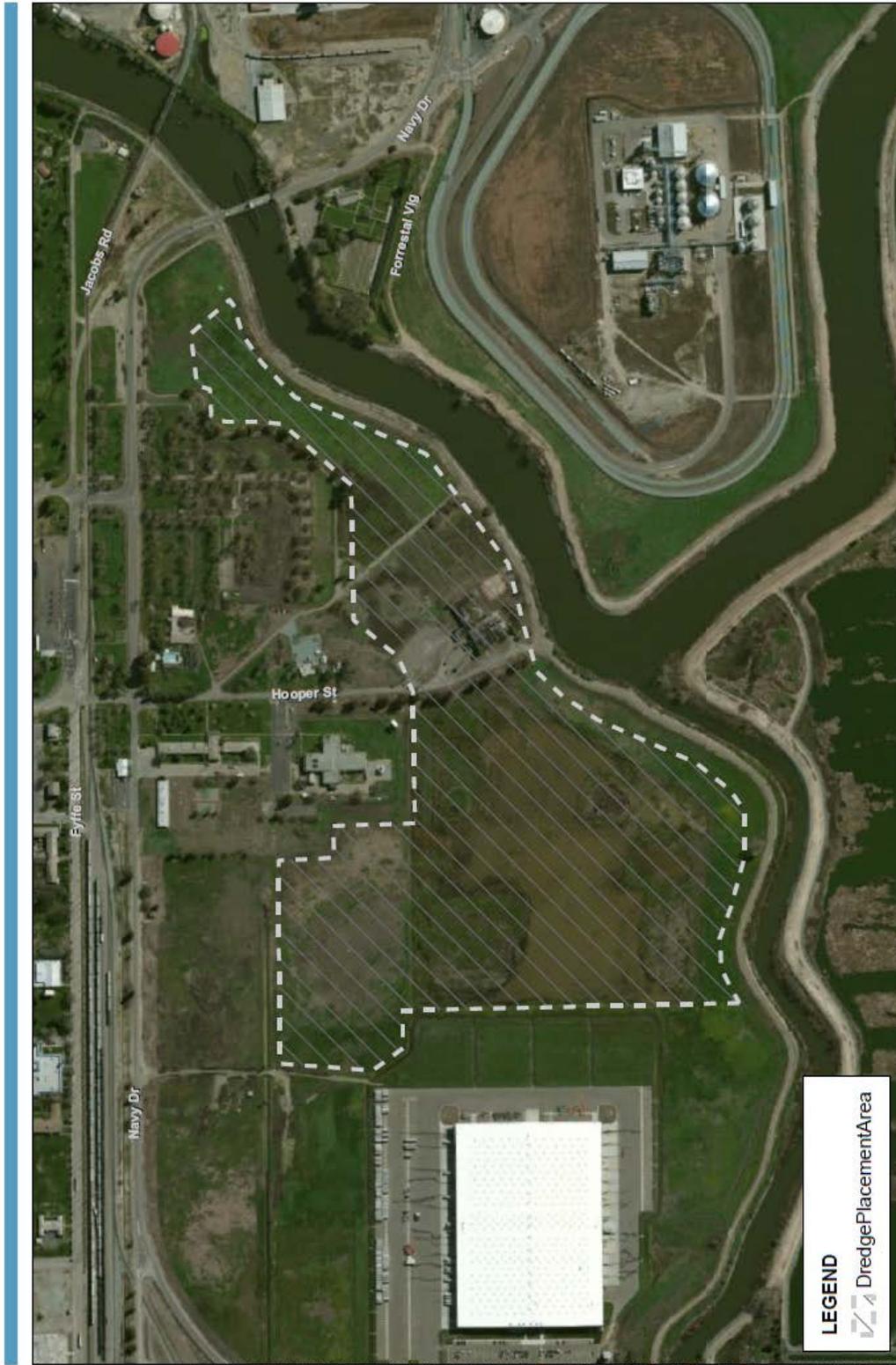


Figure 2
Site Map
Rough and Ready Placement Site
Port of Stockton

Attachment B – Rough and Ready Island Placement Site