



DEPARTMENT OF THE ARMY
SAN FRANCISCO DISTRICT, CORPS OF ENGINEERS
450 GOLDEN GATE AVENUE
SAN FRANCISCO, CALIFORNIA 94102-3404

April 2, 2021

Regulatory Division

SUBJECT: File Number 2011-00153, Petaluma Marina Maintenance Dredging; Individual Permit; Second Transmittal

Mr. Jason Beatty
City of Petaluma
202 North McDowell Boulevard
Petaluma, California 94954

Dear Mr. Beatty:

Enclosed is your fully executed copy of a Department of the Army permit (Enclosure 1) to dredge approximately 350,000 cubic yards of sediment, over a 10-year period, from the Petaluma Marina and a portion of the Petaluma River Federal Channel and dispose the suitable material at a designated in-Bay disposal site, a permitted beneficial reuse site for reuse, or at an appropriate upland disposal location outside Corps jurisdiction.

Please complete the appropriate parts of the "Project Status" form (Enclosure 2) for each episode and return them to this office. You are responsible for ensuring that the contractor (or workers) executing the activity authorized herein is knowledgeable with the terms and conditions of this authorization.

Be advised that your signed permit will NOT be an authorization to proceed. You must first fulfill the requirements of Standard DMMO Conditions 8b, 8c, and 8d on pages 2B and 2C. The conditions are for the submittal, to this office for approval, of a dredge operations plan, a before-dredge survey and a solid-debris management plan. Once these items have been submitted and approved, by this office, you will receive written authorization to commence your work. It is important that all the information requested in the above-mentioned Standard DMMO Conditions is submitted as specified or the submittal might be considered incomplete. An incomplete submittal can be returned for completion, causing delays to your project. You are also responsible for all other general and special conditions contained in your permit.

Should you have any questions please call Melissa France at (415) 503-6768 or e-mail to Melissa.M.Frace@usace.army.mil. If you wish to write, please address all correspondence to Melissa France, Operations and Readiness Division and refer to the file number at the head of this letter.

Sincerely,

VARGAS.JESSICA.M
ARIE.1288359675

Digitally signed by
VARGAS.JESSICA.MARIE.12883596
75
Date: 2021.04.02 09:16:41 -07'00'

Jessica M. Vargas
Chief, Dredged Material Management Office
Operations and Readiness Division

Enclosures



DEPARTMENT OF THE ARMY
SAN FRANCISCO DISTRICT, U.S. ARMY CORPS OF ENGINEERS
450 GOLDEN GATE AVENUE
SAN FRANCISCO, CALIFORNIA 94102-3404

DEPARTMENT OF THE ARMY PERMIT

PERMITTEE: Jason Beatty; City of Petaluma

PERMIT NO. 2011-00153

ISSUING OFFICE: San Francisco District, U.S. Army Corps of Engineers (USACE)

NOTE: The term "you" and its derivatives, as used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate District or Division office of the Corps of Engineers having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below:

PROJECT DESCRIPTION

The permittee is authorized to initially remove approximately 120,000 cubic yards (cys) of sediment from the 27.7-acre (approximately) dredge footprint and a total of approximately 350,000 cys over the life of the permit at the Petaluma Marina and Petaluma Federal Navigation Channel and Turning Basin in the city of Petaluma, Sonoma County, California. The design depth for the 7.2-acre (approximately) Petaluma Marina is -10 feet mean lower low water (MLLW) plus an additional 2-foot overdredge allowance. The design depth for the 20.5-acre (approximately) portion of the Petaluma River Federal Navigation Channel and Turning Basin is -8 feet mean lower low water (MLLW) plus an additional 2-foot overdredge allowance. The material will be removed using a clamshell dredge and barged to the San Pablo Bay Disposal Site (SF-10) for disposal, a permitted beneficial reuse site for reuse, or at an appropriate upland disposal location outside Corps jurisdiction for reuse or disposal. Work shall be conducted in accordance with the attached drawings entitled, "USACE File No. 2011-00153 – Petaluma Marina Maintenance Dredging," in 6 sheets, dated May 2020.

Prior to each dredging episode, the permittee is authorized to conduct sediment sampling in accordance with appropriate testing procedure. The Dredge Material Management Office (DMMO) will evaluate the sediments to be dredged for disposal or reuse suitability. The DMMO includes representatives from the U.S. Environmental Protection Agency, San Francisco Bay Conservation and Development Commission (BCDC), San Francisco Bay Regional Water Quality Control Board (RWQCB), and the U.S. Army Corps of Engineers (Corps). The DMMO is tasked with approving sampling and analysis plans in conformity with testing manuals, reviewing the test results and reaching consensus regarding a suitable disposition for the material.

PROJECT LOCATION: The Petaluma Marina and Petaluma River Federal Navigation Channel and Turning Basin is located in the city of Petaluma, Sonoma County, California.

GENERAL CONDITIONS:

1. The time limit for completing the work authorized ends on **December 31, 2029**. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.

2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.

3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and State coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

4. If you sell the property associated with this permit, you must obtain the signature of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.

5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as Special Conditions to this permit. *Water Quality Certification, Maintenance Dredging for the City of Petaluma at the Petaluma Marina, Petaluma, Sonoma County, issued by the Regional Water Quality Control Board, San Francisco Bay Region, under WDID No. 2CW436555 on 12 May 2020*

6. If a conditioned coastal zone consistency concurrence or determination has been issued for your project, you must comply with the conditions specified in the concurrence or determination as Special Conditions to this permit.

7. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the Terms and Conditions of your permit.

8. You understand and agree that, if future operations by the United States require the removal, relocation or other alteration of the structure or work authorized herein, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, you will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration (Section 10 only).

SPECIAL CONDITIONS:

1. Dredging shall be limited to June 1 through November 30 each year In order to minimize impacts to ESA listed fish species. Dredging outside this environmental work window would require consultation with the National Marine Fisheries Service (NMFS) (pursuant to Section 7 of the Endangered Species Act) and approval from the NMFS and the U.S. Army Corps of Engineers.

2. No dredging shall occur in areas within 250 feet of nesting Ridgeway's rails between February 1 and August 31. Nesting bird surveys may be completed prior to dredging to determine if nesting rails are within the vicinity of the dredge footprint. Documentation of the results of any nesting bird survey shall be provided to the Corps prior to the start of the dredging episode.

3. Additional Standard DMMO Conditions found on pages 2A-D (attached) shall be adhered to at all times.

STANDARD DMMO CONDITIONS TO PERMIT NUMBER 2011-00153

1. Your use of the permitted activity must not interfere with the public's right to free navigation on all navigable waters of the United States.
2. You must have a copy of this permit available on the vessel used for the authorized transportation and disposal of dredged material.
3. You must advise this office as per Special Condition 12, on page 2D, **before** you start dredging activities under the authorization of this permit.
4. To provide notification of activities affecting navigation, the permittee shall provide the following information by fax, e-mail or standard mail to the contact listed below **at least two weeks before commencing work**:
 - a. Name and telephone number of the dredge and or project manager.
 - b. Size and placement of any floating construction equipment.
 - c. Radio telephone frequencies and call signs of any marine equipment.
 - d. Anticipated work start and completion dates.

Commander (dpw)
11th Coast Guard District
Coast Guard Island, Bldg 50-3
Alameda, California 94501-5100

POC:
Local Notice to Mariners
Waterways Management Branch
PH: 510-437-2980
FAX: 510-437-5836
E-MAIL: D11LNM@uscg.mil

5. The Coast Guard Captain of the Port of San Francisco Bay may require modifications to marine construction equipment deployment or mooring systems to safeguard navigation while work is in progress.
6. All vessels operated for disposal of dredged material are required to participate in the Coast Guard's Vessel Traffic Control Service (VTS). Five minutes before each departure, the permittee shall notify the VTS by radio, via Channel 14, of the following: The name of vessel; time of departure from dredge site; and time of departure from disposal site.
7. When utilizing the San Pablo Bay Disposal Site (SF-10), the permittee shall dispose of all dredged material within a rectangular area, 1500 feet by 3000 feet, long axis bearing 050 true, and center at latitude 38°00'28"N; longitude 122°24'55"W. The specific location within the disposal area will be determined by the District Engineer upon approval of the Dredge Operation Plan (see below).
8. The permittee shall submit the following reports for review and comment to:

U.S. Army Corps of Engineers, San Francisco District
Operations and Readiness Branch
Attn: Jessica Vargas
450 Golden Gate Avenue, 4th Floor, Room 1111
P.O. Box 36152
San Francisco, California 94102-3404

a. Dredge Material Analysis: Submit, for approval, no earlier than 60 days prior to the proposed commencement of any authorized successive dredging episodes, dredge material analysis (Physical, Chemical, and Biological) sampling and testing information. **Please include the U.S. Army Corps of Engineers (Corps) permit number and dredge episode number with this submittal.** Also submit Regional Water Quality Control Board (RWQCB) water quality certification or waiver for disposal of the material. For each dredging episode, the permittee shall obtain the approval of the District Engineer for formulating specific sediment testing procedures for the Dredged Material Analysis. The testing protocol will be in accordance with the testing guidelines as published in the Corps and U.S. Environmental Protection Agency publication entitled, "Evaluation of Dredged Material Proposed for Discharge in Waters of the U.S. - Testing Manual" (The Inland Testing Manual or ITM, EPA-823-B-98-004), dated February 1998, and subsequent amendments thereto. The permittee shall provide a copy of the Dredged Material Analysis to the U.S. Environmental Protection Agency, U.S. Fish and Wildlife Service, National Marine Fisheries Service, and California Department of Fish and Wildlife concurrent with the San Francisco Bay Conservation and Development Commission's RWQCB's, and the Corps' receipt of this information. Agency comments submitted to the Corps within 15 calendar days thereafter will be given full consideration in the decision on dredged material disposal.

b. Dredge Operation Plan: Submit, for approval by this office, no earlier than 60 calendar days and no later than 20 calendar days before the proposed commencement of dredging, a plan which includes the following: **Corps permit number, dredge episode number**, a copy of the dredging contract or description of the work under which the contractor will do the permitted work; name and telephone numbers of the dredging contractor's representative on site; dredging start and completion dates; names of vessel; dump scow numbers or identification; bin or barge capacities; identification of work as either maintenance dredging or new dredging; discussion of proposed dredging procedures, as governed under Special Condition No. 11, with detailed drawings or specifications of the grid or centrifugal pump system; quantity of material to be removed; dredging design depth and typical cross section including overdepth; and date of last dredging episode and design depth. The Dredge Operational Plan shall also provide the following information:

1. The controls being established to insure that dredging operations occur within the limits defined by the channel dimensions and typical channel section. The horizontal and vertical positioning systems being utilized must be indicated as noted in 3, below.
2. The controls being established to insure that disposal of the dredged material at the disposal site is at the assigned location and depth. The horizontal and vertical positioning systems being utilized must be indicated as noted in 3, below.
3. Method of determining electronic positioning of dredge or dump scow during entire dredging operation at dredge site, disposal site and en route to and from disposal site.

Please note that failure to provide all of the above information may result in delays to your project. When your Dredge Operation Plan has been approved, you will receive a written authorization to commence with your project.

c. Pre-Dredge Survey: Submit no earlier than 60 calendar days and no later than 20 calendar days before commencement of dredging, a survey with accuracy to one-tenth foot that delineates and labels the following: areas to be dredged with overdepth allowances; existing depths; estimated quantities to be dredged to the design depth; and estimated quantities to the overdepth limit. **All surveys shall be signed by the permittee to certify their accuracy. Please include the Corps permit number and dredge episode number.**

Please note that failure to provide all the above information may result in delays to your project.

d. Solid Debris Management Plan: Submit no earlier than 60 calendar days and no later than 20 calendar days before commencement of work, a plan which describes measures to ensure that solid debris generated during any authorized dredging, demolition or construction operation is retained and properly disposed in areas not under Corps jurisdiction. **At a minimum, the plan shall include the following: source and expected type of debris; debris retrieval method; Corps permit number and dredge episode number; disposal method and site; schedule of disposal operations; and debris containment method to be used, if floatable debris is involved.**

Please note that failure to provide all the above information may result in delays to your project.

e. Post-Dredge Survey: Submit, **within 30 days of the last disposal activity** ("last" is defined as that activity after which no further activity occurs for 15 calendar days), a survey with accuracy to one-tenth foot that delineates and labels the areas dredged and the dredged depths. **Also, include the Corps permit number, dredge episode number, dates of dredging commencement and completion, actual quantities dredged to the design depth, and actual quantities to the overdepth limit.** The permittee shall substantiate the total quantity dredged by including calculations used to determine the volume difference (in cubic yards) between the Pre- and Post-Dredging Surveys and **explain any variation in quantities greater than 15% beyond estimated quantities or dredging deeper than is permitted (design plus overdepth allowance).** **All surveys shall be accomplished by a licensed surveyor and signed by the permittee to certify their accuracy.** A copy of the Post-Dredge Survey should be sent to the National Ocean Service for chart updating:

NOAA/National Ocean Service
Nautical Data Branch
N/CS26, SSMC3, Room 7230
1315 East-West Highway
Silver Spring, Maryland 20910-3282.

9. Disposal Site Verification Log (DSVL): Submit on a weekly basis by noon Monday, the log (downloadable from <http://www.spn.usace.army.mil/Portals/68/docs/Dredging/guidance/document2010-09-07-132110.pdf>) that enumerates work accomplished during the preceding week. Mail to:

U.S. Army Corps of Engineers, San Francisco District
Attn: Jessica Vargas, DMMO
450 Golden Gate Avenue, 4th Floor, Room 1111
P.O. Box 36152
San Francisco, California 94102-3404;

FAXed to Ms. Shelah Sweatt at (415) 503-6693; or e-mail to shelah.sweatt@usace.army.mil. **Please include the Corps permit number and dredge episode number.** The log will be provided when the Corps approves the Dredge Operation Plan and authorizes the commencement of the dredging.

10. Overflow requirements:

a. No overflow or decant water shall be discharged from the barge, with the exception of spillage incidental to mechanical dredge operations.

b. During transportation from the dredging site to the disposal site, no material shall be permitted to overflow, leak or spill from barge, bins or dump scows.

11. The permittee shall ensure that all dredged material is slurried prior to disposal to prevent any accumulation or buildup of material at the disposal site. All dredged material shall be slurried in one of the following manners:

a. Dredged material will be either pumped with a centrifugal pump prior to leaving the dredge site for the disposal site; or,

b. If the material is mechanically dredged, passed through a debris grid, with a maximum opening size of 12 inches by 12 inches that will cover the entire loading area of the dump scow. Everything that does not pass through the grid will be considered solid debris and shall be disposed in areas outside of Corps jurisdiction. All such material shall be promptly removed from the grid at the end of each 8 hour shift or sooner.

12. **The permittee or dredge contractor shall inform this office when: 1) a dredge episode actually commences, 2) when dredging is suspended (suspension is when the dredge contractor leaves the dredge site for more than 48 hours for reasons other than equipment maintenance), 3) when dredging is restarted, and 4) when dredging is complete. Each notification should include the Corps permit number and dredge episode number.**

The information can be sent to the attention of Jessica Vargas, in writing to the address below; e-mailed to Jessica.M.Vargas@usace.army.mil or via telephone message at (415) 503-2936.

U.S. Army Corps of Engineers, San Francisco District
Operations and Readiness Division
Attn: XX
450 Golden Gate Avenue, 4th Floor, Room 1111
P.O. Box 36152
San Francisco, California 94102-3404

13. The permittee, as directed by the District Engineer under authority pursuant to the policies and procedures of 33 CFR 325.7, may be required to modify disposal schedules and monthly disposal quantities for particular dredging episodes.

14. The permittee shall allow the dredging area and equipment to be inspected by the Corps staff upon request.

15. For each dredge episode, the permittee shall be responsible for obtaining a letter of water quality certification from the Regional Water Control Quality Board and authorization from the San Francisco Bay Conservation and Development Commission (BCDC). Water quality certification and BCDC authorization will be a prerequisite to the District Engineer's decision to approve or disapprove specific dredge episodes pursuant to the policies and 33 CFR 325.2(b)(1)(ii) and 325.2(b)(2)(ii).

16. **If a land, ocean, or other aquatic disposal site becomes available for use during the life of the permit, the permittee shall evaluate these disposal alternatives, taking into consideration cost, existing technology, and logistics in light of the overall project purpose to facilitate compliance with the 404(b)(1) Guidelines (40 CFR 230). This evaluation shall be submitted to the Corps at least 60 calendar days before commencement of subsequent dredging episodes. The District Engineer, upon review of this information and after consultation with other resource agencies, may direct the permittee to use such sites in lieu of or in addition to the San Pablo Bay Disposal Site (SF-10), under authority of 33 CFR 325.7 and 40 CFR 230.10(a).**

FURTHER INFORMATION:

1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:

(X) Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. § 403). Section 10 of the Rivers and Harbors Act generally regulates all structures and work occurring below the plane of mean high water in tidal waters of the United States; in former diked baylands currently below mean high water; outside the limits of mean high water but affecting the navigable capacity of tidal waters; or below the plane of ordinary high water in non-tidal waters designated as navigable waters of the United States. Navigable waters of the United States generally include all waters subject to the ebb and flow of the tide; and/or all waters presently used, or have been used in the past, or may be susceptible for future use to transport interstate or foreign commerce. The term "structure" includes, without limitation, any pier, boat dock, boat ramp, wharf, dolphin, weir, boom, breakwater, bulkhead, revetment, riprap, jetty, artificial island or reef, permanent mooring structure, power transmission line, permanently moored floating vessel, piling, or any other obstacle or obstruction. The term "structure" does **not** include bridges and causeways constructed in or over navigable or tidal waters of the United States, since this regulatory responsibility has been delegated to the U.S. Coast Guard under the Department of Transportation Act of 1966 (Pub. L. No. 89-670). The term "work" includes, without limitation, any dredging or disposal of dredged material, filling, or other modification of a navigable water of the United States.

(X) Section 404 of the Clean Water Act (33 U.S.C. § 1344). Section 404 of the Clean Water Act generally regulates all discharges of dredged or fill material occurring below the plane of ordinary high water in non-tidal waters of the United States; or below the high tide line in tidal waters of the United States; and within the lateral extent of wetlands adjacent to these waters. Waters of the United States generally include the territorial seas; all traditional navigable waters which are currently used, or were used in the past, or may be susceptible to use in interstate or foreign commerce, including waters subject to the ebb and flow of the tide; wetlands adjacent to traditional navigable waters; non-navigable tributaries of traditional navigable waters that are relatively permanent, where the tributaries typically flow year-round or have continuous flow at least seasonally; and wetlands directly abutting such tributaries. Where a case-specific analysis determines the existence of a "significant nexus" effect with a traditional navigable water, waters of the United States may also include non-navigable tributaries that are not relatively permanent; wetlands adjacent to non-navigable tributaries that are not relatively permanent; and wetlands adjacent to but not directly abutting a relatively permanent non-navigable tributary. The term "dredged material" means material that is excavated or dredged from waters of the United States. The term "fill material" means material placed in waters of the United States where the material has the effect of replacing any portion of a water of the United States with dry land or of changing the bottom elevation of any portion of a water of the United States. Examples of such fill material include, but are not limited to, rock, sand, soil, clay, plastics, construction debris, wood chips, overburden from mining or other excavation activities, and materials used to create any structure or infrastructure in waters of the United States. The term "fill material" does not include trash or garbage.

() Section 103 of the Marine Protection, Research, and Sanctuaries Act of 1972 (33 U.S.C. § 1413). Section 103 of the Marine Protection, Research, and Sanctuaries Act generally regulates the transport of dredged material for the purpose of disposal in ocean waters. Ocean waters is defined as those waters of the open seas lying seaward of the base line from which the territorial seas is measured, as defined in the Convention of the Territorial Sea and the Contiguous Zone (15 UST 1606; TIAS 5639).

2. Limits of this authorization:
- a. This permit does not obviate the need to obtain other Federal, State, or local authorizations required by law.
 - b. This permit does not grant any property rights or exclusive privileges.
 - c. This permit does not authorize any injury to the property or rights of others.
 - d. This permit does not authorize interference with any existing or proposed Federal project.

3. Limits of Federal Liability: In issuing this permit, the Federal Government does not assume any liability for the following:

a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.

b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.

c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.

d. Design or construction deficiencies associated with the permitted work.

e. Damage claims associated with any future modification, suspension, or revocation of this permit.

4. Reliance on Applicant's Data: The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.

5. Reevaluation of Permit Decision: This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:

a. You fail to comply with the terms and conditions of this permit.

b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate. (See Item 4 above.)

c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 C.F.R. Section 325.7 or enforcement procedures such as those contained in 33 C.F.R. Sections 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the Terms and Conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 C.F.R. Section 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. Extensions: General Condition 1 establishes a time limit for the completion of the activity authorized by this permit. Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.

Gina M Benedetti-Petnic

4/1/2021

Jason Beatty; City of Petaluma
(PERMITTEE)

(DATE)

Gina Benedetti-Petnic; Acting Director of Public Works & Utilities - City of Petaluma

This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below.

VARGAS.JESSICA.M
ARIE.1288359675

Digitally signed by
VARGAS.JESSICA.MARIE.1288359675
Date: 2021.04.02 09:18:26 -07'00'

4/2/2021

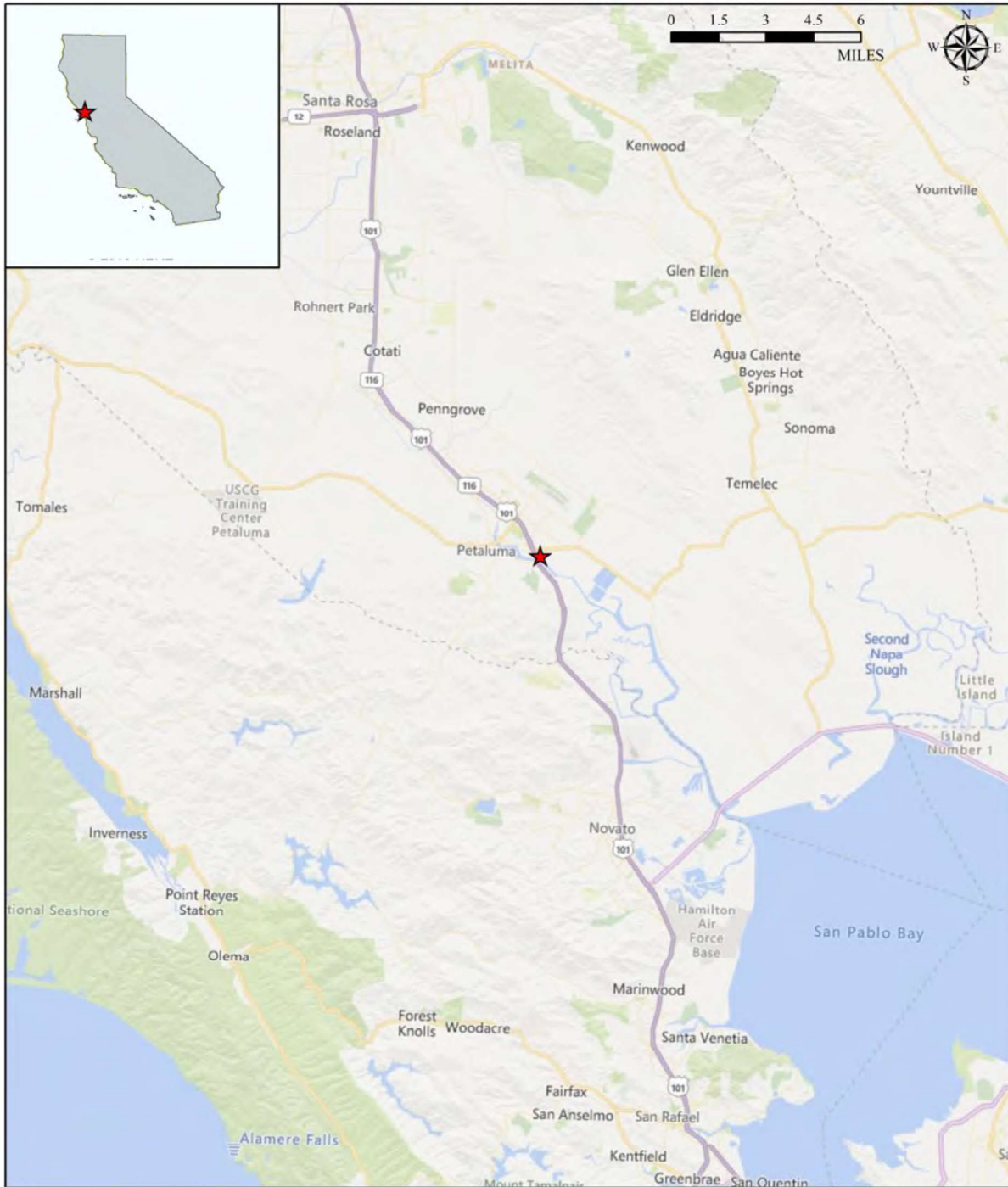
Jessica M. Vargas
Chief, Dredged Material Management Office
Operations and Readiness Division

(DATE)

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.

(TRANSFEREE)


(DATE)



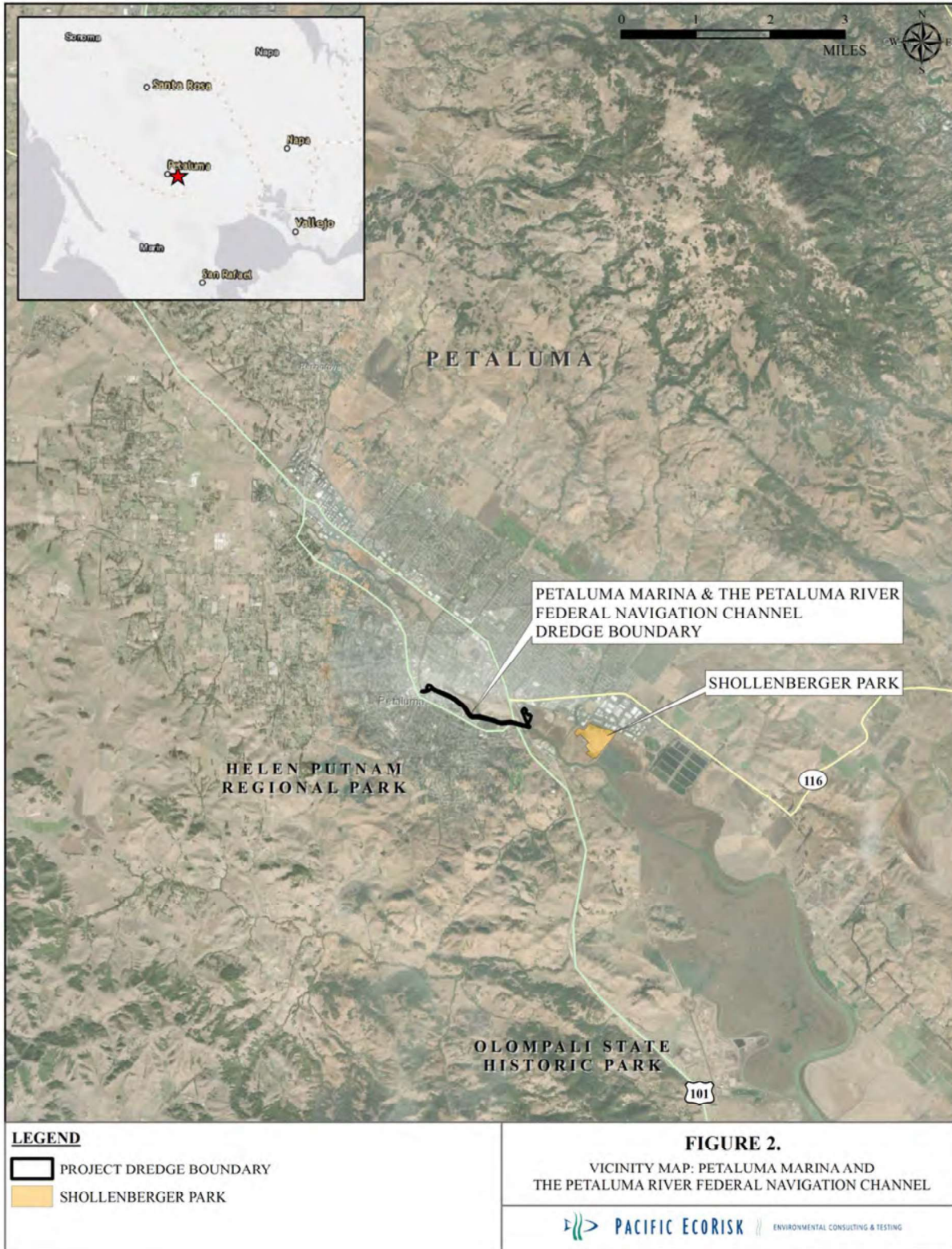
LEGEND

★ PROJECT LOCATION

FIGURE 1.
LOCATION MAP: PETALUMA MARINA AND
THE PETALUMA RIVER FEDERAL NAVIGATION CHANNEL

 **PACIFIC ECORISK** || ENVIRONMENTAL CONSULTING & TESTING

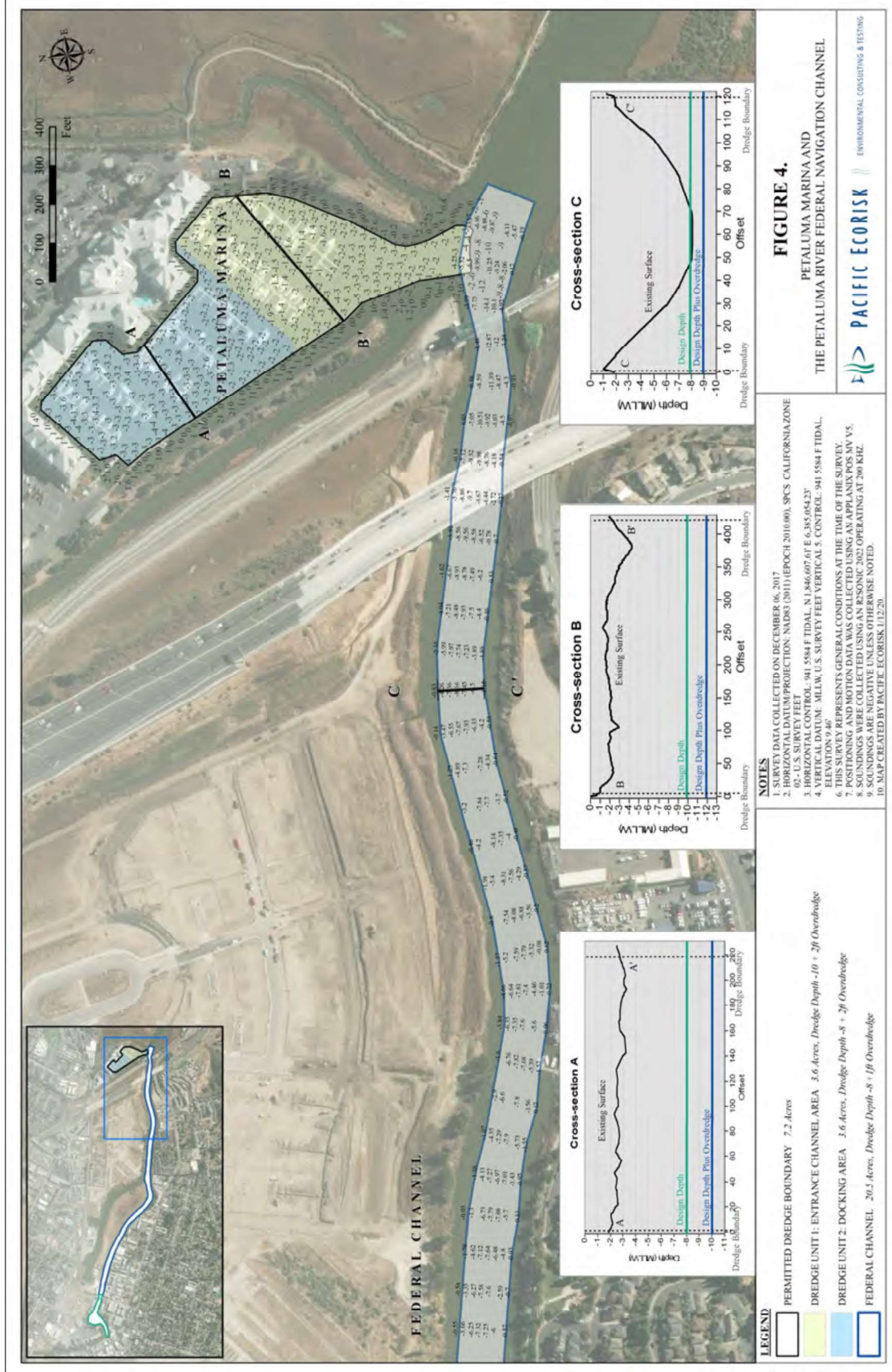
**USACE File No. 2011-00153 -
Petaluma Marina Maintenance
Dredging
May 2020**



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May 2020**



**USACE File No. 2011-00153 -
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 Dredging
 May 2020**

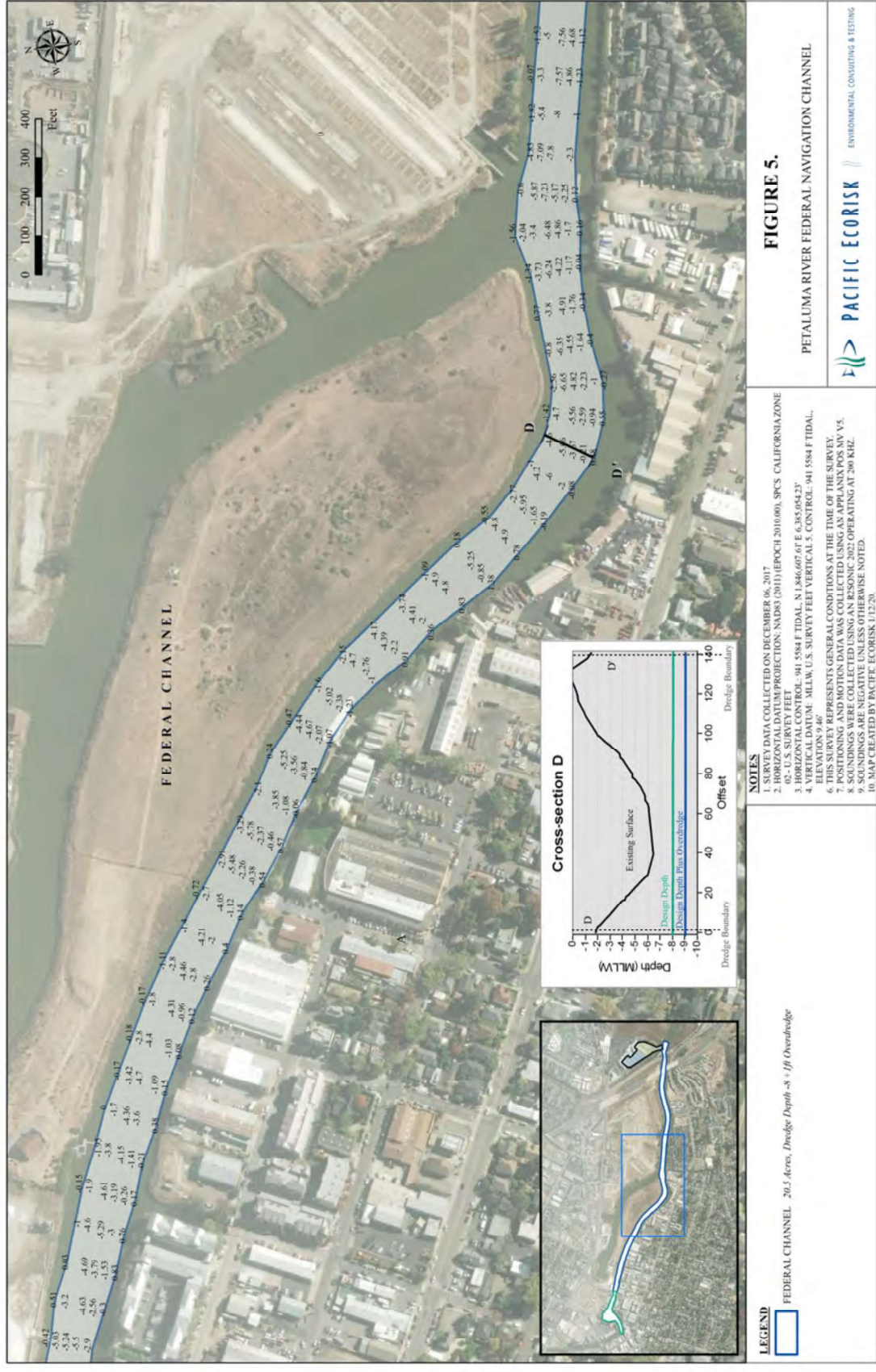


FIGURE 5.
PETALUMA RIVER FEDERAL NAVIGATION CHANNEL



**USACE File No. 2011-00153 -
Petaluma Marina Maintenance
Dredging
May 2020**

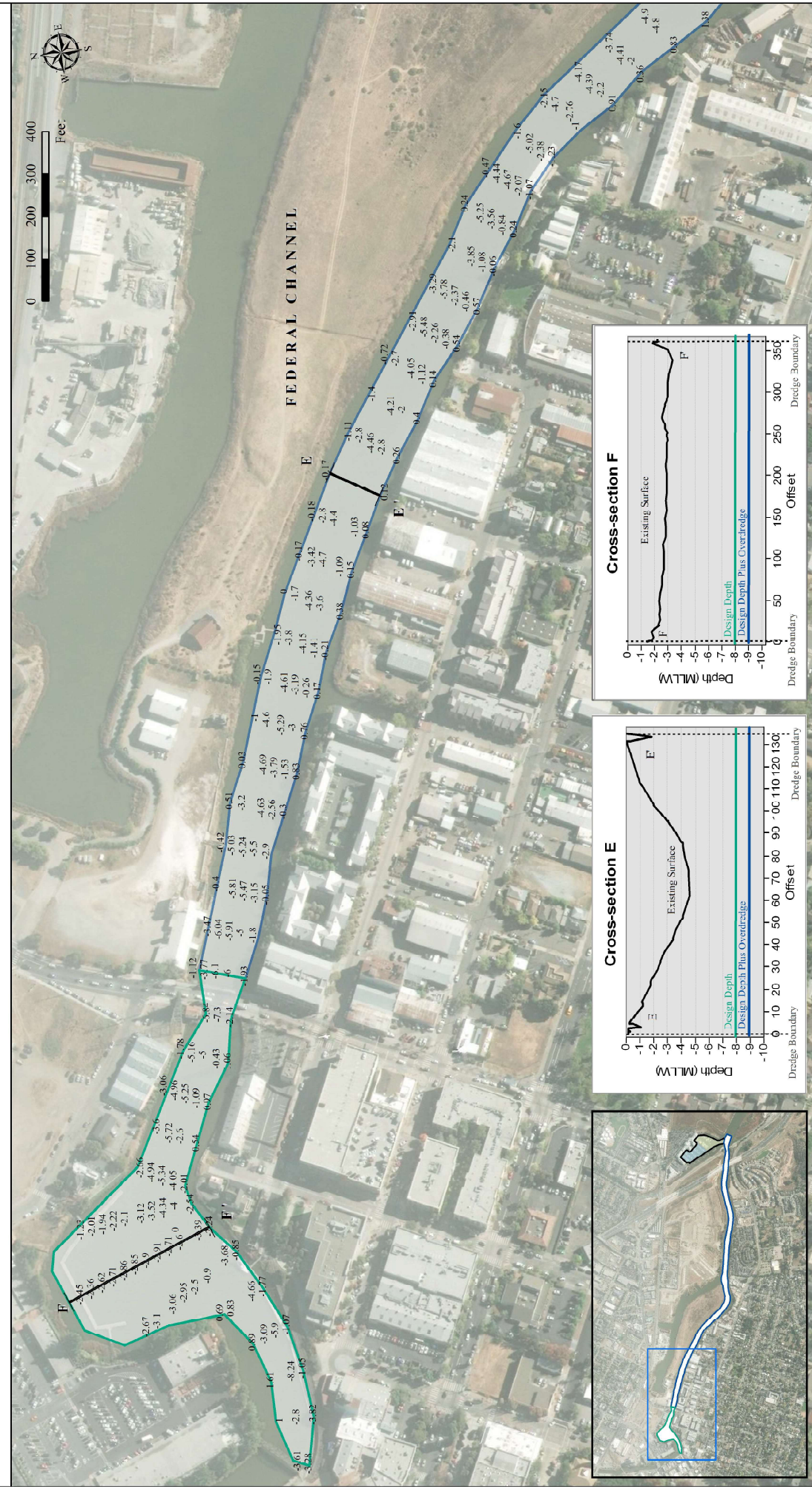


FIGURE 6.
**PETALUMA RIVER FEDERAL NAVIGATION CHANNEL
 AND TURNING BASIN**

LEGEND

- FEDERAL CHANNEL 20.5 Acres, Dredge Depth -8 +1ft Overbridge
- TURNING BASIN 4.8 Acres, Dredge Depth -8 +1ft Overbridge

NOTES

1. SURVEY DATA COLLECTED ON DECEMBER 06, 2017
2. HORIZONTAL DATUM: PROJECTION: NAD83 (2011); (EPOCH 2010.00), SPCS CALIFORNIA ZONE 02 - U.S. SURVEY FEET
3. HORIZONTAL CONTROL: 941 5884 F TIDAL, N 1.846,607.61' E 6,385,054.23'
4. VERTICAL DATUM: M.L.W., U.S. SURVEY FEET VERTICAL 5. CONTROL: 941 5884 F TIDAL, ELEVATION 9.46'
5. THIS SURVEY REPRESENTS GENERAL CONDITIONS AT THE TIME OF THE SURVEY.
6. POSITIONING AND MOTION DATA WAS COLLECTED USING AN APPLICANIX POS MV V3.
7. SOUNDINGS WERE COLLECTED USING AN RESONIC 2022 OPERATING AT 200 KHZ.
8. SOUNDINGS ARE NEGATIVE UNLESS OTHERWISE NOTED.
9. MAP CREATED BY PACIFIC ECORISK, 4/9/20.

**USACE File No. 2011-00153 -
 Petaluma Marina Maintenance
 Dredging
 May 2020**



PROJECT STATUS

Please use the forms below to report the dates when you start and finish the work authorized by the enclosed permit. Also, if you suspend work for an extended period of time, use the forms below to report the dates you suspended and resumed work. If you find that you cannot complete the work within the time granted by the permit, please apply for a time extension at least one month before your permit expires. If you materially change the plan or scope of the work, it will be necessary for you to submit new drawings and a request for a modification of your permit.

(cut as needed) -----
Date: _____

NOTICE OF COMPLETION OF WORK under Department of the Army Permit No. 2011-00153
TO: District Engineer, US Army Corps of Engineers, Operations and Readiness Division, 450 Golden Gate Avenue, San Francisco, CA 94102-3404

In compliance with the conditions of Permit No. 2011-00153, this is to notify you that work was completed on _____.

Permittee: Jason Beatty; City of Petaluma
Address: 202 North McDowell Boulevard, Petaluma, California 94954

(cut as needed) -----
Date: _____

NOTICE OF RESUMPTION OF WORK under Department of the Army Permit No. 2011-00153
TO: District Engineer, US Army Corps of Engineers, Operations and Readiness Division, 450 Golden Gate Avenue, San Francisco, CA 94102-3404

In compliance with the conditions of Permit No. 2011-00153, this is to notify you that work was resumed on _____.

Permittee: Jason Beatty; City of Petaluma
Address: 202 North McDowell Boulevard, Petaluma, California 94954

(cut as needed) -----
Date: _____

NOTICE OF SUSPENSION OF WORK under Department of the Army Permit No. 2011-00153
TO: District Engineer, US Army Corps of Engineers, Operations and Readiness Division, 450 Golden Gate Avenue, San Francisco, CA 94102-3404

In compliance with the conditions of Permit No. 2011-00153, this is to notify you that work was suspended on _____.

Permittee: Jason Beatty; City of Petaluma
Address: 202 North McDowell Boulevard, Petaluma, California 94954

(cut as needed) -----
Date: _____

NOTICE OF COMMENCEMENT OF WORK under Department of the Army Permit No. 2011-00153
TO: District Engineer, US Army Corps of Engineers, Operations and Readiness Division, 450 Golden Gate Avenue, San Francisco, CA 94102-3404

In compliance with the conditions of Permit No. 2011-00153, this is to notify you that work commenced on _____.

Permittee: Jason Beatty; City of Petaluma
Address: 202 North McDowell Boulevard, Petaluma, California 94954