MINUTE ITEM This Calendar Item No. was approved as Minute Item No. - de by the State Lands Commission by a vote of 0 0 at its 7-16-87 meeting.

CALENDAR ITEM

58

26

07/16/87 W 23796

PRC 7115

37 S

Martinez

DREDGING PERMIT

APPLICANT:

County of Orange

P. O. Box 4048

Santa Ana, California 92702-4048

AREA, TYPE LAND AND LOCATION:

Sovereign lands in Huntington Harbour, Sunset Harbor, Sunset Aquatic Park Access Channel and Sunset Channel, Orange County.

PROPOSED LAND USE:

Dredge a maximum 156,000 cubic yards of material over 5 years to improve navigation by returning the channel to nearly original width and depth design dimensions. The dredged material will be disposed of at the approved

EPA Ocean Disposal Site LA-2.

TERMS OF THE PROPOSED PERMIT:

Initial Period: Five years commencing August 1,

1987.

Royalty: No royalty for material placed at the

approved offshore site.

PREREQUISITE CONDITIONS, FEES AND EXPENSES:

Filing fee has been received.

STATUTORY AND OTHER REFERENCES:

A. P.R.C.: Div. 6, Parts 1 and 2; Div. 13.

Cal. Adm. Code: Title 2, Div. 3; Title 14,

Div. 6.

AB 884:

12/21/87.

-1-

MINUTE PAGE

CALENDAR ITEM NO. 26 (CONTID)

OTHER PERTINENT INFORMATION:

- 1. This activity involves lands identified as possessing significant environmental values pursuant to P.R.C. 6370, et seq... Based upon the staff's consultation with the persons nominating such lands and through the CEQA review process, it is staff's opinion that the project, as proposed, is consistent with its use classification.
- 2. A Negative Declaration was prepared and adopted for this project by the Orange County Environmental Management Agency. The State Lands Commission's staff has reviewed such document and believes that it complies with the requirements of the CEQA.

APPROVAL OBTAINED:

United States Army Corps of Engineers, California Coastal Commission and Regional Water Quality Control Board

EXHIBITS:

- A. Vicinity and Site Map.
- B. Negative Declaration.
- C. Permit.

IT IS REMOMENDED THAT THE COMMISSION:

- 1. FIND THAT A NEGATIVE DECLARATION WAS PREPARED AND ADOPTED FOR THIS PROJECT BY THE ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY AND THAT THE COMMISSION HAS REVIEWED AND CONSIDERED THE INFORMATION CONTAINED THEREIN.
- 2. DETERMINE THAT THE PROJECT, AS APPROVED, WILL NOT HAVE A SIGNIFICANT EFFECT ON THE ENVIRONMENT.
- 3. FIND THAT THIS ACTIVITY IS CONSISTENT WITH THE USE CLASSIFICATION DESIGNATED FOR THE LAND PURSUANT TO P.R.C. 6370, ET SEQ.

CALENDAR ITEM NO. 26 (CONT'D)

4. AUTHORIZE STAFF TO ISSUE TO THE COUNTY OF ORANGE THE DREDGING PERMIT ATTACHED AS EXHIBIT "C" SAID PERMIT SHALL ALLOW DREDGING A MAXIMUM VOLUME OF 156,000 CUBIC YARDS OF MATERIAL OVER 5 YEARS IN HUNTINGTON HARBOUR, SUNSET HARBOR, SUNSET ACQUATIC PARK ACCESS CHANNEL AND SUNSET CHANNEL, AND DISPOSAL AT AN APPROVED OFFSHORE SITE. SUCH PERMITTED ACTIVITY IS CONTINGENT UPON APPLICANT'S COMPLIANCE WITH APPLICABLE PERMITS, RECOMMENDATIONS OR LIMITATIONS ISSUED BY FEDERAL, STATE AND LOCAL GOVERNMENT AGENCIES.

-3-

CALENDAR PAGE 141
MINUTE PAGE 2511

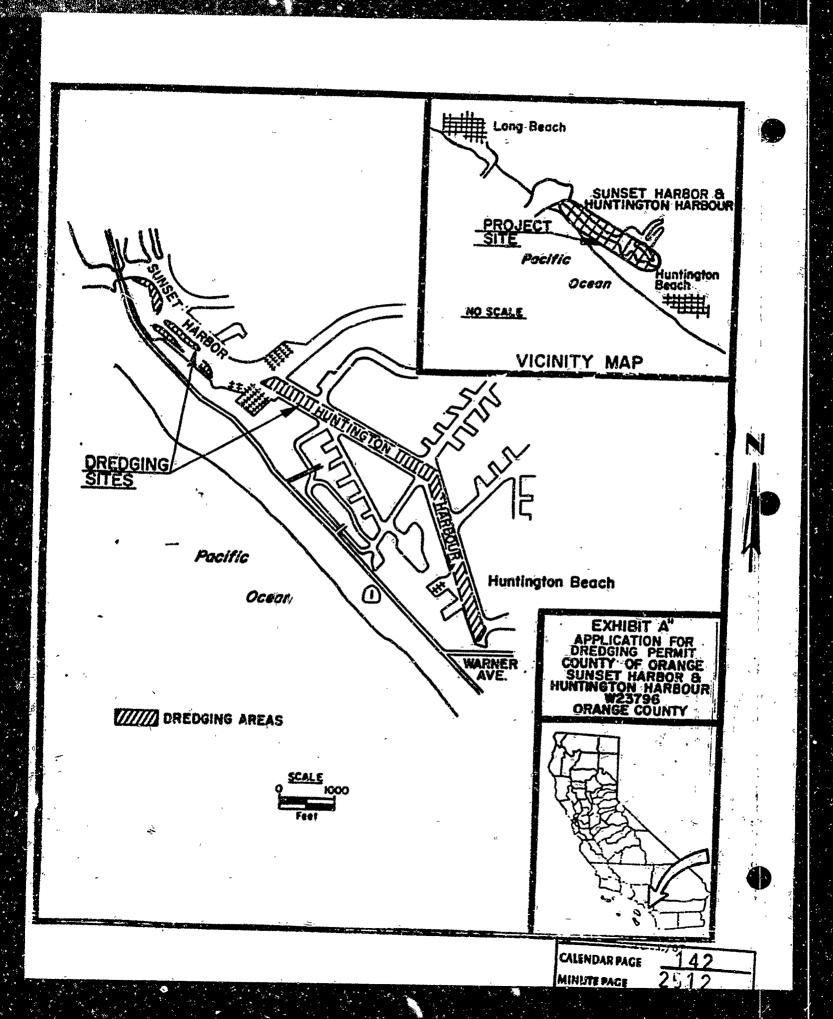




EXHIBIT "B"

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envirormental mánagement agency

12 CIVIC CENTER PLAZA P.O. BOX 4648 SANTA ANA, CALIFORNIA 92702 - 4048

	NEGATIVE DECLA	RATION
Énvironr	rdance with Orange County Board of Supervisor's policies remental Quality Act, the County of Orange has conducted an Initial may have a significant adverse effect on the environment and	al Study to determine whether the following
- 5	The proposed project will not have a significant adverse efformat require the preparation of an Environmental Impact R	
х	Although the proposed project could have a significant adverse offect in this case because the reverse side of this sheet have been added to the project. An not required.	e Mitigation Measures described on the
	vironmental documents which constitute the Initial Study and nation are attached and hereby made a part of this docume	
ROJ	ECT:	; ,
Title	Sunset/Huntington Harbour Maintenance Dredging	Fibi No: IP 86-143
Pro Pro Divi Rec Add Cor NOTIC		Room No. Telephone: (714) 834-5562 (714) 834-6388
doc	is document and supporting attachments are provided for review bournent about environmental effects only. Supplemental information is ted above. The decision-making body will review this document	is on file and may be reviewed in the ciffice
ma	ation before considering the proposed project.	
This flet app not occ	is Negative Declaration may become final unique written-comments ted above by 4:30 p.m. on	s or an appeal is received by the office If you wish to appeal the comments to our finding that the project will the environmental effect(s), why they would measures which you believe would eliminate
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ENVIRONMENTAL MANAGEMENT AGEVCY P.O. BOX 4048

SANTA ANA, CALIFORNIA 92702-4048

IP 86-113

PROL MEF. Huntington Harbor

ENVIRONMENTAL ANALYSIS CHECKLIST

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PROJ. REF. Huntington Harbour

ENVIRONMENTAL ANALYSIS EXPLANATIONS/MITIGATION DISCUSSION

SUPPLEMENT TO CHECKLIST FORM NO. F0250-338

I. PROJECT DESCRIPTION

The project consists of maintenance dredging to remove material that has shoaled into the existing channel and return to the channel to nearly original width and depth design dimensions. This dredging will include a total of approximately 156,000 cubic yards of material from Huntington Harbour, Sunset Harbor, Christiana Bay, Sunset Aquatic Park Access Channel, and Sunset Channel. The work will be performed in the main fairway channel of Sunset Harbor and Huntington Harbour between the Pacific Coast Highway Bridge and Warner Avenue, in the Sunset Aquatic Park Access Channel and in Sunset Channel. The City of Huntington Beach has requested that maintenance dredging in Christiana Bay also be included in the project, to be funded by the city. See Exhibits 1 and 2 for vicinity and project site maps. The dredged material will be disposed of at the approved Environmental Protection Agency ocean disposal site IA-2.

II. PROJECT BACKGROUND

The Muntington Marbour area is located seven miles southeast of Long Beach, and is accessed through the jetties at Anaheim Bay. The harbor, made up of Sunset Marbor and Euntington Harbour, consists of several man-made channels located in the cities of Huntington Beach and Seal Beach, and in the County of Orange.

The County is responsible for maintenance dredging within the Sunset Harbor and Huntington Marbour main channel. While the City of Huntington Beach is responsible for maintenance dredging of all other waterways within Huntington Harbour, the County has agreed to act as the agent for the City in performing dredging outside of the County's area of responsibility.

Project dimensions consist of a channel depth to -10 to -12 feet MLLW and a variable channel width, depending on the location. For the majority of the project the channel width is defined as the distance between the established pierhead lines. In Sunset Marbor where there are no pierhead lines the channel width is defined by the original dredging adjusted to enhance enlgrass mitigation efforts. The Sunset Aquatic Park Access Channel width is 100 feet.

The harbor was dredged to -10 feet MLLW in the 1960's as part of the Euntington Marbour Development Project. Much of the channel has remained stable since the initial dredging. The only maintenance dredging that has been performed since construction is at the outlet of the Bolsa Chica Flood Control Channel. In 1979 about 100,000 cubic yards of material were removed and placed upland at Sunset Aquatic Park. In 1983, 50,000 cubic yards of material were removed in the area of the marina and also placed upland.

CALENDAR PAGE

MINUTE PAGE

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Exhibit 3 shows the areas within the main fairway, Sunset Aquatic Park Access Channel, Sunset Channel and Christiana Bay that are shallower than the proposed project depths. Maintenance dredging is needed to remove this shouling which has resulted in numerous boat groundings and an inability of the Harbor Patrol to reach all parts of the harbor at all times. Navigation problems occur at both high and low tides at the Pacific Coast Highway Bridge, near Warner Avenue and in Sunset Channel.

Two specific features are being incorporated in the project to accomplish the maintenance dredging with the least impact to eelgrass habitat and to insure design depths in high shoaling areas. These are: (1) realign the channel in Sunset Harbor near the PCH Bridge to minimize the effect on celgrass; and (2) perform two foot advance maintenance dredging for \$ 1.600 foot length in Sunset Harbor and a 500 foot length near Warner Avenue.

Various studies were prepared in conjunction with the proposed plan including an eelgrass survey, a geotechnical investigation, a bioassay study and an environmental impact analysis. Copies of the complete Project Report and associated studies are available for review at the County of Orange Environmental Management Agency, Flood Control Design Division or Environmental and Special Projects Division.

This project will also require regulatory approvals from the following agencies:

U.S. Army, Corps of Engineers California Coastal Commission California Division of State Lands California Water Quality Control Board

III: ENVIRONMENTAL ANALYSIS (Reyed to attached Chacklist)

1. EARTH C

Explanation

As described above, the project includes dredging in Sunset Harbor, Huntington Hurbour, Sunset Aquatic Park Access Channel, Christiana Bay and Sunset Channel, totaling approximately 156,000 cubic yards of material. The material to be dredged has been deposited over the years since the harbor was dredged to -10 MLLW in the 1960's as part of the Muntington Harbour Development Project. This shealing which has occurred results in navigational problems, boat groundings and an inability of the Harbor Patrol to reach all parts of the Harbor at all times. The proposed channel modification will resolve existing navigational/access problems and no mitigation is required.

2. AIR B.C

Explanation

The operation of dredging equipment used for this project will result in localized increases in pollutant emissions. Dredging equipment will be wither a hydraulic dredge, or a clamshell dredge, or both. Operations will include disposal of dredging material by towing a dump-scow to and from the ocean disposal site approximately twice a day. In addition, a tugboat may be needed to move the dredge throughout the harbor, as

CALENDAR PAGE MINUTE PAGE

needed, to reach shouled areas. A pollutant emission analysis indicates that the emission from dredging equipment will not be significant. The most significant emissions would be CO and MOx. Compared to projected emissions for the County and the SCAQMD local source receptor area (SRA), maximum total project related emissions are determined to be insignificant:

REGIONAL EMISSIONS INVENTORY COMPARISON (1987) (Yous/Day)

POLLUTANT	Orange County	SRA \$ 18 ^b	Project	Projects Percent of SRA \$18/00
CO	1,254.78	215.51	0.04	0.02/0.003
NOx	173.98	38.17	0.20	0.52/0.11

- a) Source: SCAQMD, Draft AQMD, Draft Appendix V-C, August 1982
- b) Source: SCAOND, Air Quality Mandbook for EIRs, Revised December 1983.

Mitigation

Although it has been determined that project-related emission will not be significant, standard contract regulations will be required to minimize project emissions, including the following:

- a. Contractor shall maintain all engines in proper tune to assure efficient working order.
- b. Contractor shall shut down engines when not in, or prepared for, direct operational use.

3. WATER E

Explanation

Dredging operations will cause increased turbidity in the surface waters, from discharging the suspended fine sediments within the liquid portion of the dredge material, and may also result in lowered dissolved oxygen values. These impacts are anticipated to be short-term. Because the Sunset Marbor dredging area near the Pacific Coast Mighway Bridge is within potential least term foraging area, the reduction in water clarity may reduce the least terms' ability to locate and obtain the fish on which they rely for food. Additionally, substantial increases in turbidity could decrease the productivity of algae and enlgrass species, and if sufficiently heavy, the coating of these plants with sediment could result in decreased viability of the plants for the duration of dredging operations in the area. Mitigation measures to reduce these impacts are discussed below.

The dredged material will be disposed of at the ocean disposal site LA-2, south of Point Fermin. A bioassay and sediment chemistry analysis was conducted for the proposed dredge material to allow the Corps of Engineers and Environmental Protection Agency to determine if the material was acceptable for ocean disposal. Upland and beach disposal

CALENDAR PAGE 148
MINUTE PAGE 2518

sites were also considered for this project, but were found to be infeasible. Based on the bioassay analysis, the EPA approved ocean disposal of dredge material at the local site, IA-2.

Mitigation

The potential least tern foraging areas and the primary enlgrass beds are located in Sunset Harbor between the PCH Bridge and the Sunset Aquatic Park. In this area, the following mitigation shall apply:

Because the spring and summer months are the most critical months at this location for the least tern, dredging shall be avoided to the maximum extent feasible in Sunset Harbor from April to mid-September. In the event that dredging must be conducted in this area during spring or summer months, only a hydraulic dredge and dump scow shall be used (hydraulic dredging equipment causes less turbidity than clamshell dredging equipment).

The dump scow shall be loaded during ebb tide so that suspended material will be flushed out of the harbor.

Impacts to the least term or eelgrass due to increased turbidity will be short-term, with a return to predredge conditions expected shortly after the completion of dredging. A plan for eelgrass mitigation is discussed under 4. Biological Resources.

4. BIOLOGICAL RESOURCES A.B

Explanation

Although the dredging area has been refined to avoid eelgrass beds as much as possible, approximately 0.3 acres of eelgrass habitat is located within the proposed dredging next the middle of the main channel through Sunset Marbor (See Exhibit 4).

As described above, the California least term may use Sunset Marbor for foraging from April to September. Any increased turbidity due to dredging operations could impact least term foraging activity.

Mitigation

An eelgrass mitigation plan has been prepared as part of this project to mitigate the direct loss of eelgrass habitat during dredging. The complete mitigation plan is attached as Exhibit 5.

Primary components of the eelgrass mitigation plan include dredging and transplanting eelgrass habitat; monitoring of the transplant; determination of transplant success; and provisions to ensure successful eelgrass transplant. The proposed ellgrass transplant replaces 100 percent of the removed habitat; therefore, impact to eelgrass is mitigated to a level of insignificance.

Please refer to 3. Water for discussion of potential impact to the least tern and mitigation to reduce this impact.

CALENDAR PAGE
MINISTE PAGE

LAND USE B

Explanation

Temporary land use conflicts could result between dredges, scows and other ancillary equipment with such land uses as fishing docks, public beaches and the public boat launching facility near Marner Avenue. In addition, dreaging could be considered a temporary adverse seathetic impact to local réstaurants and other uses where views are a markétable feature.

Mitigation

Potential land use conflicts will be short-term, occurring while dredging is conducted. To minimize any conflict, dredging shall be scheduled as much as possible between September and April to avoid the high use spring/summer seasons.

TRANSPORTATION/CIRCULATION D, E, G; WATER H

Explanation

Proposed dredging operations will affect water traffic patterns, navigation, and mooring.

Dredging activities in the main fairway will cover an area approximately. 100 feet wide by 400 feet long, thereby reducing the navigable portion of the waterway by those dimensions. During dredging in the main fairway, occurring over approximately 24 weeks, passage of wessels through the waterway and around the dredge and ancillary equipment will. be restricted, particularly near the PCR Bridge where existing shoals already narrow the navigable area.

Dredging in Sunset Channel will impact navigation in this area. Continuous passage through the channel is currently restricted due to the 5 feet vertical bridge clearance midway across the channel. The 💉 foot width between docks will not allow boat mooring or navigation during dredging. Therefore, Sunset Channel will be temporarily closed to permit dredging activity within the channel. Fifty to sixty boats currently docked within the channel will have to be relocated outside Surget Channel until dredging is completed; this will result in a teactorary impact by eliminaling access and docking for boats normally kept in the area. Dredging in this channel will take about five weeks to complete. The dump scow for this portion of dredging will be located at the coutherly end of Sunset Channel.

Similarly, about 12 boats in Christiana Bay will have to be relocated for about 2 weeks while dredging under the docks is performed.

The potential for water rolated hazards will exist due to restricted havigable area and use of the channels by both dredging equipment and other boses.

-5-

CALENDAR PAGE

MINUTE PAGE

Mitigation

While there are short-term adverse impacts as described above, the long-term impact of proposed dredging will result in the elimination of choals and an overall safer boating area.

To reduce the potential impact to beating due to the dradging, the Contractor will be required to retain a navigable channel at all times by employing a minimum width operation, and if a hydraulic dredge is used, by sinking the dredge pipe. Nowever, this will not be possible in Sunset Channel and Christians Bay where navigation and mooring will be impacted.

In addition, dredging shall be scheduled to avoid the high use apring/summer seasons.

10. RECREATION

Explanation/Mitigattion

Recreational boating requiring the use of the dredging area will be temporarily impacted during dredging operations. Mitigations to reduce the impact on this water traffic are described above under 6. Transportation/Circulation.

11. NOISE B

Explanation

Dredging activities will include the operation of the dredge between 7 a.m. and 8 p.m., Monday through Friday, and 9 a.m. to 6 p.m. on Saturday. No work will be allowed on Sundays or on Federal holidays. The dredging operations could produce a noise level of up to 75 dB(A) at 50 feet for either hydraulic or clamshell dredges. This is the noise level that would be experienced at the residences and other uses that are closest to the waterway when dredging occurs near-shore. Such noise levels may exceed City and County noise ordinances when the dredge is closest to the houses or in a confined area such as Sunset Channel.

Mitigation

The contractor shall employ muffling and sound attenuation devises such that no project-related equipment exceeds local or state noise standards.

The contractor shall comply with the noise ordinances of the cities of Huntington Beach and Seal Beach, and of the County of Orange.

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CALENDAR FAGE 151
MINUTE PAGE 2521

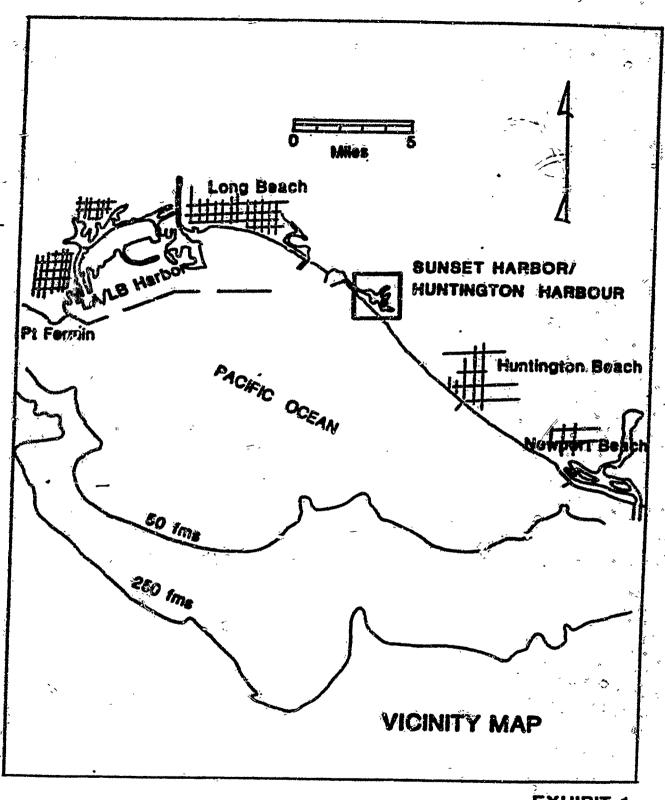
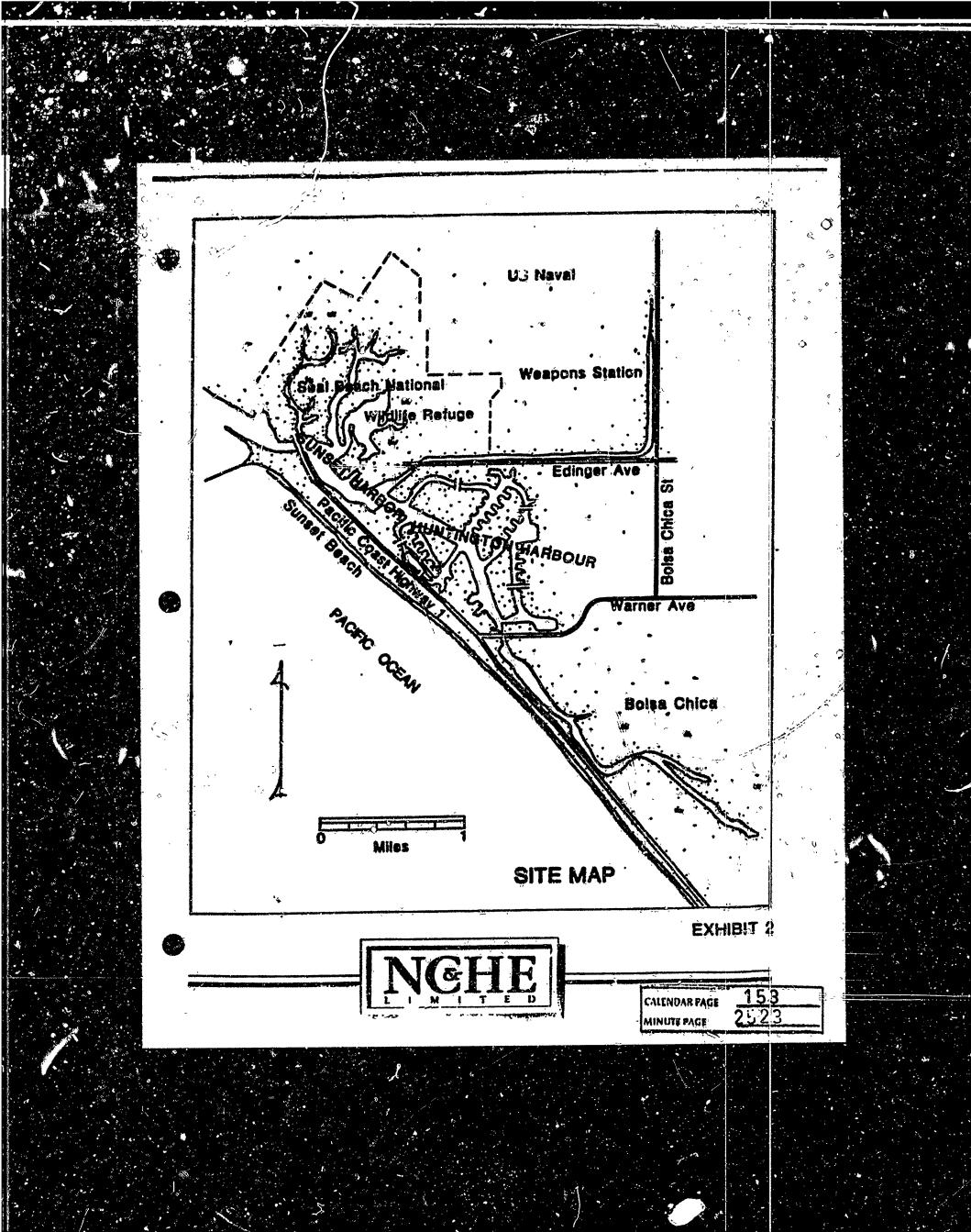
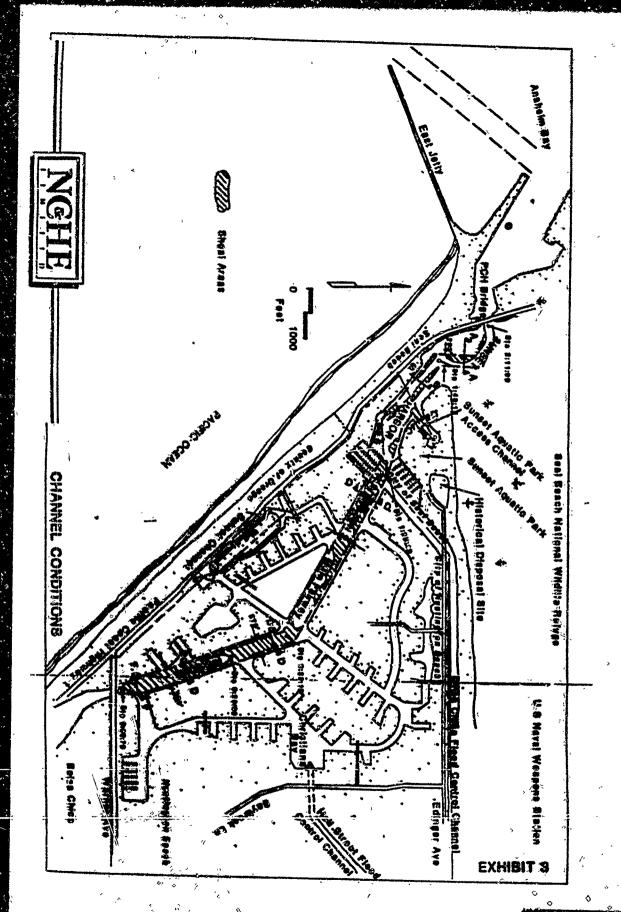


EXHIBIT 1

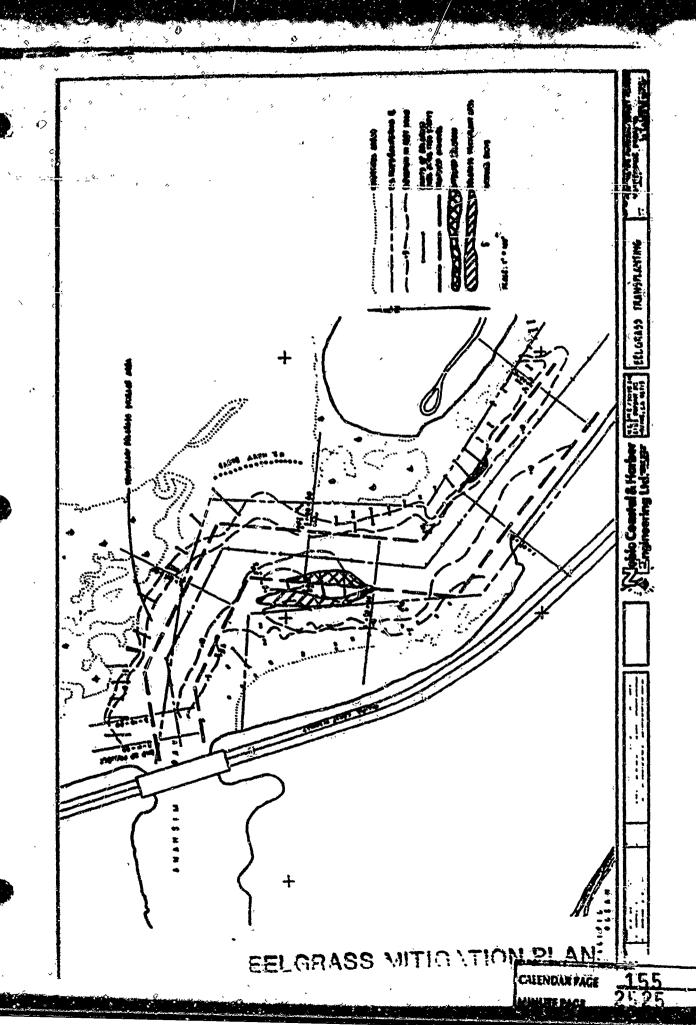


CALENDAR PAGE MINUTE PÅGE 152 2522





CALEMBAG PACE



EELGRASS MITIGATION PLAN HUNTINGTON HARBOUR/SUNSET HARBOR/ CHRISTIANA BAY/SUNSET CHANNEL HAINTENANCE DREDGING COUNTY OF ORANGE, ENVIRONMENTAL MANAGEMENT AGENCY

November 12, 1986

The County of Grange proposes transplanting about 14,000 sq. ft. (0.3 acres) of subtidal area with Zostera Marina (eelgrass) to mitigate for the loss of eelgrass with a similar area due to maintenance dredging in Sunset Harbor. The mitigation plan consists of the following:

LOCATION:

Transplanting will occur adjacent to the main part of the effected beds. Figure 1 shows the eelgrass beds that will be affected. Limits of dreaging areas, remaining eelgrass beds, and transplanting areas will be marked with buoys during the work.

SUBSTRATE:

Approximately 800 cubic yards of dredged sandy material from the effected area will be deposited in the transplanting area to form a suitable substrate for eelgrass attachment and growth. A transplanting area about 14,000 sq. ft. in size, with a minimum coverage of 1 foot of sandy material, and with a range in elevation of 1 to -6 ft MLLW will be created. Dredging and disposal techniques, such as low exit velocities, high material concentration, and placement of the disposal pipe will be specified in the dredging contract to ensure that the required area is obtained and remaining beds are not damaged.

TRANSPLANTING STOCK:

Eeggrass transplanting stock will be obtained from the effected area prior to the dredging. The stock will be temporarily stored, unless an acceptable alternative is proposed, by placing it adjacent to existing eelgrass areas on the north side of the channel as shown on figure 1.

If the stored eelgrass does not survive, then donor eelgrass will be obtained from a source acceptable to the National Fisheries Service (NMFS). U.S. Fish and Wildlife Service (USFWS). California Department of Fish and Game (CDFWG), the Corps of Engineers, and the County of Orange.

CALENDAR PAGE 25.26

DREDGING AND TRANSPLANTING PROCEDURE:

The following steps will be performed before or during the transplant:

- 1. Prior to dredging, 5 to 10 sediment grab samples will be obtained from the areas to be dredged in Sunset Harbor. A grain size analysis of the samples will be performed. The best material for improving the eelgrass transplant area will be determined in consultation with the resource agencies.
- 2. Prior to dredging, a test transplant will be performed to determine the best means of temporarily holding enlarss before the transplant.
- 3. An eelgrass survey of the area to be effected will be performed prior to dredging for the purpose of determining the actual impact on eelgrass beds.
- 4. Prior to dredging the effected area, 52,500 shoots will be obtained from the effected area and temporarily placed in the area designated for temporary storage.
- 5. The dredging contractor, under supervision by the County and its representatives, shall dredge and place sufficient sandy material to obtain the required transplanting area.
- 6. Within one week of dredging in the effected area, an celgrass survey will be performed in order to determine the remaining celgrass.
- 7. Eegrass shall be transplanted using a bundle/anchor technique. A total of 3,500 planting units (based on an affected area of 14,000 sq. ft.) consisting of 15 shoots per bundle will be planted on 2 foot centers. Transplanting will occur about, but no sooner than, 30 days after dredging unless modified by the resource agencies.

Alternatively, if suitable sandy material can be placed to improve the substrate and allowed to stand for a minimum of 60 days prior to dredging the eelgrass area, then the effected eelgrass can be transplanted directly to the improved area and temporary transplanting will not be necessary. If this occurs then: step 2 above will not be required; step 4 will involve transplanting directly to the improved area; and in step 7, transplanting will occur no sooner than 60 days after material has seen placed to improve the substrate.

CALENDAR FAGE 157
MINUTE PAGE 2527

MONITORING

The eelgrass transplant will be monitored at the following times:

- At 3 and 5 months after the transplant, diving surveys will be performed to determine the survival of eelminetmen of transplant area will be subdivided into a area. A short letter report relaying the results will source agencies.
- 2. At 1 and 2 years after the transplant, diving surveys will be performed to determine the density of the transplanted eelgrass. A short letter report relaying the results will be submitted to the Corps of Engineers, and the resource agencies.

Additionally, hydrographic surveys shall be performed at inter-

SUCCESS:

Success of the transplanting will be based on:

- A 65% survival of eelgrass in the 4, or more, subdivided areas at the end of 3 and 6 months.
- At the end of the first year, 50% density of eelgrass over the transplant area compared to the control site.
- 3. At the end of the second year, a 90% density of eelgrass over the transplant area compared to the control

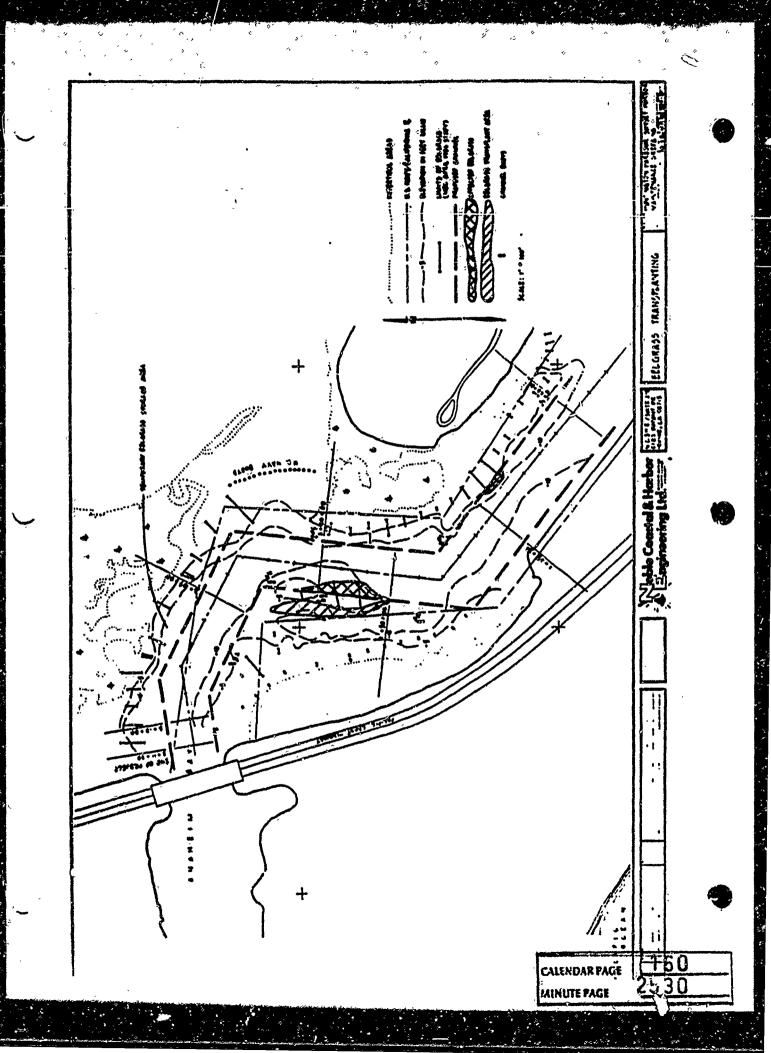
PROVISIONS:

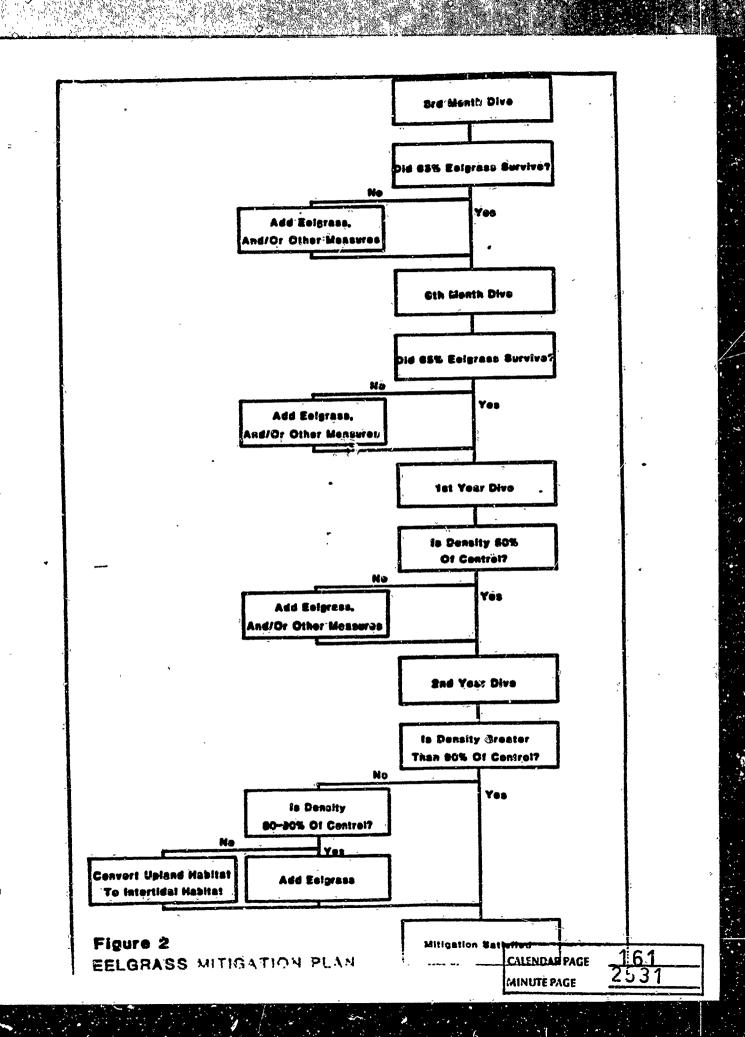
The following is a list of provisions to ensure that the mitigation is successful. A matrix is included that summarizes the

- 1. If at the end of 3 months, 5 months and 1 year the success criteria has not been met, then additional edigrass will be imported and transplanted, and/or with the resource agencies.
- 2. If at the end of the second year:
 - a. The success criteria has been met, then mitigation is satisfied, or.

CALENDAR PAGE 158
MINUTE PAGE 2528

- b. An 80 to 90% eelgrass density compared to the control exists, then additional shoots will be added to the area. Mitigation will then be satisfied, or,
- c. Less than 80% eelgrass density compared to the control exists, then the difference between the relative density and 100% will be the percent of the impacted area remaining to be mitigated for in lieu of transplanting eelgrass. The Mitigation will be satisfied by turning an equal upland area (equal to the impacted area remaining to be mitigated for) at the westerly and of Sunset Aquatic Park into an intertidal zone (to 0 ft. MLLW). For example, if 70% eelgrass density exists compared to the control, then 4,200 sq. ft. of upland habitat, 30% of the effected area (.3 * 14,000 sq. ft.), will have to be converted to intertidal habitat. The actual area to be converted will be subject to approval of the resource agencies, the County of Orange, and other groups interested in Sunset Aquatic Park.
- 3. Potential remedial measures include:
 - a. Import coarse sandy material and retransplant;
 - b. Transplant at another site in the project vicinity;
 - c. Transplant to an offsite area;
 - d. Combine with another eelgrass transplanting project; or
 - e. Other appropriate measures agreed to.





STATE OF CALIFORNIA-STATE LANDS COMMISSION

STATE LANDS COMMISSION 1807 13TH STREET SACRAMENTO, CALIFORNIA 95814



August 1, 1987

File Ref .: W 23796

County of Orange P. O. Box 4048 Santa Ana CA 92702~4048

Gentlemen:

Pursuant to your application dated May 19, 1987, and by the authorization of the State Lands Commission on July 16, 1987, you are hereby granted permission to dredge, during the term of the permit, a maximum 156,000 cubic yards of sand, silt, clay, and gravel, excluding all other minerals, including, but not limited to, oil, gas, and geothermal from an area of sovereign lands in Huntington Harbour, Sunset Harbor, Sunset Aquatic Park Access Channel and Sunset Channel, Orange County as designated in Exhibit "A" attached hereto, which is by this reference expressly made a part hereof. Said permission includes the right to deposit dredge spoils at the approved EPA Ocean Disposal Site LA-2.

No royalty shall be paid for material placed at the approved offshore disposal site. A royalty of \$0.25 per cubic yard shall be paid for any material used for any private or commercial benefit. Said permission is given on the condition that all dredging and spoils deposition shall be done in accordance with all applicable Fèderal, State, and local government laws, rules, and regulations. Said permission shall be effective from August 1, 1987 through July 31, 1988.

It is hereby agreed that the operations authorized under this permit shall be performed with diligence, in a good and workmanlike manner, and with the use of due care and safety precautions.

It is further agreed that you shall submit copies of reports or contracts with the dredging operator substantiating the volume of materials dredged and any royalties due to the Commission on a quarterly basis, on forms supplied by the Commission (Form 30.9NC). It is agreed that you shall submit said forms on or before the fifteenth (15th) day of the month following the end of each permit quarter, together with payment for the royalty due on the volume removed during that quarter. The first permit quarter shall be the first three months following the effective date of this permit, and every three-month period thereafter shall be a permit quarter.

It is hereby agreed that, pursuant to Public Resources Code Section 6224, any installments of royalty accruing under the provisions of this permit that are not paid when due shall be subject to a five percent (5%) penalty and shall bear interest at the rate of one and one-half percent (1½%) per month from the date when the same was payable by the terms hereof.

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MINUTE PAGE

2532

It is agreed that you shall furnish the Commission with copies of final surveys or copies of any other computations used as a basis to verify dredge volumes within twenty-five (25) days of completion of the activity authorized hereunder.

It is agreed that you shall indemnify, save harmless and at the option of the State of California, defend said State, its officers, agents and employees, against any and all claims, demands, causes of action, or liability of any kind which may be asserted against or imposed upon the State of California or any of ts officers, agents, or employees by any third person or entity, arising out of or connected with the issuance of this permit, operations hereunder, or the use by you or your agents, employees or contractors, of the above—described lands.

Without limiting the generality of the foregoing, such indemnification shall include any claim, demand, cause of action or liability of any kind asserted against or impounded upon the State of California or any of its officers, agents or employees, arising out of cr connected with any alleged or actual violation by you, your agents, employees or contractors of the property or contractual rights of any third persons or entity. It is agreed that you shall, at the option of the Commission, procure and maintain liability insurance for the benefit of the State in an amount satisfactory to the Commission.

You agree to comply with the terms and conditions hereof, and you further agree that any violation thereof shall constitute grounds for termination of this permit and shall allow the Commission to pursue any other remedy available to it under the law. It is further agreed that this permit may be suspended, modified, or terminated, whenever the State Lands Commission deems such action to be in the best interests of the State, and that no such action by the Commission shall be deemed to be a basis for any claim or cause of action for damages against the State or any officer, employee or agency thereof.

STATE OF CALIFORNIA STATE LANDS COMMISSION

	W. M. THOMPSON, Chief Extractive Development Program
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ACCEPTED:	
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CALENDAR PAGE 163
MINUTE PAGE 2533