#### CALIFORNIA COASTAL COMMISSION

NOR TH COAST DISTRICT OFFICE MAILING ADDRESS: 710 E STREET . SUITE 200 EUREKA, CA 95501-1865 VOICE (707) 445-7833 FACSIMILE (707) 445-7877

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P. O. BOX 4908 EUREKA, CA 95502-4908



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April 24, 2003 June 12, 2003 October 21, 2003 Robert S. Merrill June 25, 2004 July 14, 2004

#### STAFF REPORT: PERMIT AMENDMENT

#### APPLICATION NO .:

**APPLICANT**:

PROJECT LOCATION:

#### DESCRIPTION OF PROJECT PREVIOUSLY APPROVED:

#### 1-99-063-A1

### **CALIFORNIA DEPARMENT OF** FISH AND GAME

Mad River Slough Wildlife Area, off of Old Samoa Road, southwest of Arcata, Humboldt County (APNs 506-031-05, 506-041-02).

Enhance existing wetlands by: (1) excavating segments of an existing slough to create six ponds varying in size from 0.3 to 2.2 acres, (2) upgrading/installing eleven water control structures, (3) creating 140 acres of short-grass habitat and 85 acres of tall grass habitat, and (4) planting 7 acres of riparian vegetation. Excavated spoil material will be deposited over 5,503 linear feet of existing roads, and over 6,194 linear feet of the top of the Humboldt Bay levee.

DESCRIPTION OF	,
AMENDMENT REQUEST:	Further enhance existing seasonal wetland habitat by excavating two basins totaling 5.6 acres in size within and next to existing seasonally inundated sloughs, installing two new water control structures, and placing approximately 9,000 cubic yards of spoil material atop 4,050 linear feet of existing degraded perimeter levee.
GENERAL PLAN DESIGNATION:	Agriculture Exclusive
ZONING DESIGNATION:	Agriculture Exclusive 60-acre-minimum
LOCAL APPROVALS RECEIVED:	None Required
OTHER APPROVALS REQUIRED:	Army Corps of Engineers
SUBSTANTIVE FILE DOCUMENTS:	(1) Humboldt County LCP, (2) Coastal Development Permit No. 1-99-063

#### SUMMARY OF STAFF RECOMMENDATION:

The staff recommends that the Commission <u>approve with conditions</u>, the requested amendment to the coastal development permit, granted originally to the Department of Fish & Game in July, 2000 for Phase I of the Mad River Slough Wildlife Area (MRSWA) Wetland Enhancement Program. The project site is located approximately two miles west of the City of Arcata, between Old Samoa Road, and the northern edge of Arcata Bay in Humboldt County. The MRSWA comprises approximately 478 acres of former ranch lands that was purchased by the state in 1987 for wildlife habitat enhancement purposes. The amendment request seeks authorization for construction of Phase II of the enhancement project. The proposed improvements for the second phase primarily involve the creation of two small basins totaling 5.6-acres in size to retain water over a longer period of the winter and spring within and next to seasonally inundated sloughs by the excavation of approximately 9,000 cubic yards of material. The excavated material would be placed on top of the Arcata Bay perimeter levee. The proposed improvements also include the installation of water control structures to manage water levels in the basins to be created.

Staff is recommending three new special conditions (Special Conditions 6-8) to ensure that the amended project is consistent with the Chapter 3 policies of the Coastal Act. Special Condition No. 6 would replace Special Condition No. 1 of the original permit.

Special Conditions 7 and 8 would be entirely new conditions. Special Condition Nos. 2, 3, 4, and 5 of the original permit would be reimposed without revision and would remain in full force and effect

To ensure that Phase II of the wetland enhancement project will achieve the wetland enhancement objectives for which the project is intended, staff recommends that the Commission attach Special Condition No. 6 to the amended permit. Special Condition No. 6 would require that the applicant submit for the review and written approval of the Executive Director prior to issuance of the amended permit a final revised monitoring program that substantially conforms with the monitoring plan approved pursuant to the original permit and provides for remediation should the goals and objectives of the wetland enhancement project not be achieved. The revised plan must continue the monitoring of the project site for a full five years after construction of the Phase II improvements. Staff is also recommending a sedimentation and erosion control condition to avoid impacts to water quality from construction activities (Special Condition No. 7). The condition would require that (1) all excavated materials to be placed on the levee shall be placed on the levee surfaces only and not extend to adjacent wetland areas, and (2) the levee areas to be covered with excavated material shall be seeded with native grasses of local stock upon completion of the wetland enhancement activities and prior to the rainy season. Finally, staff is recommending Special Condition No. 8 which would require the applicant to secure any necessary approvals from the Army Corps of Engineers prior to the commencement of construction.

As conditioned, staff has determined that the development as amended would be consistent with Chapter 3 policies of the Coastal Act.

#### STAFF NOTES:

#### 1. <u>Procedure and Background:</u>

Section 13166 of the California Code of Regulations states that the Executive Director shall reject an amendment request if it lessens or avoids the intent of the approved permit unless the applicant presents newly discovered material information, which he or she could not, with reasonable diligence, have discovered and procured before the permit was granted.

Coastal Development Permit (CDP) No. 1-99-063 (California Department of Fish & Game) was approved by the Commission in July, 2000 for Phase I of the Mad River Slough Wildlife Area Wetland Enhancement Program. The wetland habitat enhancement project approved under the original permit was designed to increase the diversity of wetland types within the wildlife area by creating additional seasonal and semi-permanent freshwater ponds. Specific enhancement activities authorized under the original permit included: (1) excavating segments of an existing slough to create six ponds varying in size from 0.3 to 2.2 acres, (2) upgrading/installing eleven

water control structures, (3) creating 140 acres of short-grass habitat and 85 acres of tall grass habitat, and (4) planting 7 acres of riparian vegetation. Excavated spoil material was deposited over 5,503 linear feet of existing roads, and over 6,194 linear feet of the top of the Humboldt Bay levee.

The Commission approved the original permit with five special conditions. These conditions required that: (1) a final revised restoration monitoring plan incorporating certain performance standards and monitoring and reporting procedures be submitted for review and approval by the Executive Director to ensure that the goals and objectives of the restoration project would be met, (2) no excavated material or other construction related debris be placed in coastal waters or wetlands and that all excess material and temporary fill be removed and disposed of in an approved location, (3) construction activities occur only between August 15<sup>th</sup> and November 15<sup>th</sup> to prevent conflicts with the primary wildlife breeding season at the site, (4) the applicant obtain appropriate project approval from the U.S. Army Corps of Engineers, and (5) the applicant manage the hydrology of the project site to avoid flooding the adjoining agricultural property.

The amendment request seeks authorization for construction of Phase II of the Mad River Slough Wildlife Area Wetland Enhancement Project. The proposed improvements for the second phase primarily involve the creation of two shallow basins totaling 5.6 acres in size to retain water over a longer period of the winter and spring within and next to seasonally inundated sloughs by the excavation of 9,000 cubic yards of material. The proposed improvements also include the installation of two water control structures to manage water levels in the basins to be created. Phase II complements the enhancements performed under Phase I and would entail similar improvements. As a result, like the Phase I improvements, the Phase II improvements are consistent with the Chapter 3 policies of the Coastal Act. The project as proposed would not conflict with the intent of any of the conditions imposed by the Commission in the original permit for Phase 1. The monitoring program developed for Phase I was designed to cover the entire site, and thus the proposed basins are already included in the monitoring area.

Therefore, as this amendment request would not result in a lessening or avoidance of the intent of the originally approved permit, the Executive Director accepted the amendment request for processing.

#### 2. <u>Standard of Review</u>

The proposed project is located in the Commission's retained jurisdiction. Humboldt County has a certified LCP, but the site is within an area shown on State Lands Commission maps over which the state retains a public trust interest. Therefore, the standard of review that the Commission must apply to the project is the Chapter 3 policies of the Coastal Act.

#### 3. Commission Action Necessary

The Commission must act on the application at the July 14, 2004 meeting to meet the requirements of the Permit Streamlining Act.

# I. MOTION, STAFF RECOMMENDATION AND RESOLUTION:

The staff recommends that the Commission adopt the following resolution:

#### Motion:

I move that the Commission approve the proposed amendment to Coastal Development Permit No. 1-99-063 pursuant to the staff recommendation.

# STAFF RECOMMENDATION OF APPROVAL:

Staff recommends a **YES** vote. Passage of this motion will result in approval of the amendment as conditioned and adoption of the following resolution and findings. The motion passes only by affirmative vote of a majority of the Commissioners present.

#### **RESOLUTION TO APPROVE THE PERMITAMENDMENT:**

The Commission hereby approves the coastal development permit amendment on the ground that the development as amended and subject to conditions, will be in conformity with the policies of Chapter 3 of the Coastal Act and will not prejudice the ability of the local government having jurisdiction over the area to prepare a Local Coastal Program conforming to the provisions of Chapter 3. Approval of the permit amendment complies with the California Environmental Quality Act because either 1) feasible mitigation measures and/or alternatives have been incorporated to substantially lessen any significant adverse effects of the amended development on the environment, or 2) there are no feasible mitigation measures or alternatives that would substantially lessen any significant adverse impacts of the amended development on the environment.

#### II. <u>STANDARD CONDITIONS:</u> (See attached)

#### **III.** <u>SPECIAL CONDITIONS</u>:

Special Condition No. 1 of the original permit (CDP No. 1-99-063) is replaced by Special Condition No. 6, attached to the permit amendment. Special Condition Nos. 2, 3, 4, and 5 of the original permit are reimposed without revision and remain in full force and effect (see Exhibit

No. 5). Special Conditions Nos. 6-8 are additional new conditions attached to this permit amendment.

# 6. <u>Revised Restoration Monitoring Program</u>

- A. **PRIOR TO ISSUANCE OF THE AMENDED COASTAL DEVELOPMENT PERMIT**, the applicant shall submit, for review and written approval of the Executive Director, a final revised monitoring program that substantially conforms with (1) the monitoring plan prepared by the Department of Fish and Game entitled "Mad River Slough Wildlife Area Monitoring Plan," that was submitted to and approved by the Executive Director of the Coastal Commission on August 30, 2000 pursuant to Special Condition No. 1 of the original permit to the Commission except that the plan shall be revised to include the following:
  - 1. Provisions for monitoring and remediation of the entire restoration site including Phase 1 and Phase II in accordance with the approved final restoration program and the approved final monitoring program for a period of five years after completion of all construction of the Phase II improvements.
  - 2. Provisions for submission of a final monitoring report to the Executive Director at the end of the five-year reporting period. The final report must be prepared in conjunction with a qualified wetlands biologist. The report must evaluate whether the enhancement site conforms with the goals, objectives, and performance standards set forth in the approved final enhancement program. The report must address all of the monitoring data collected over the five-year period.
- B. If the final report indicates that the enhancement project has been unsuccessful, in part, or in whole, based on the approved performance standards, the applicant shall submit a revised or supplemental enhancement program to compensate for those portions of the original program which did not meet the approved performance standards. The revised enhancement program shall be processed as an amendment to this coastal development permit unless the Executive Director determines that no amendment is legally required.
- C. The permittee shall monitor and remediate the wetland enhancement site in accordance with the approved monitoring program. Any proposed changes from the approved monitoring program shall be reported to the Executive Director. No changes to the approved monitoring program shall occur without a Commission amendment to this coastal development permit unless the Executive Director determines no amendment is legally required.

#### 7. Sedimentation and Erosion Control

All excavated materials authorized to be placed on the existing bay-front levee shall be placed on levee surfaces only and not extend to adjacent wetland areas. The levee areas to be covered with excavated material shall be seeded with native grasses of local stock upon completion of the wetland enhancement activities and prior to November 15 of the fall occurring during or after placement of the excavated materials.

#### 8. <u>Army Corps of Engineers Approval</u>

# PRIOR TO COMMENCEMENT OF CONSTRUCTION OF ANY DEVELOPMENT AUTHORIZED BY THIS AMENDED COASTAL DEVELOPMENT PERMIT, the

permittee shall provide to the Executive Director a copy of a permit issued by the Army Corps of Engineers, or letter of permission, or evidence that no permit or permission is required for the Phase II wetland enhancement activities. The applicant shall inform the Executive Director of any changes to the project required by the Army Corps of Engineers. No changes shall be incorporated into the project until the applicant obtains a Commission amendment to this coastal development permit, unless the Executive Director determines that no amendment is legally required.

# IV. FINDINGS AND DECLARATIONS FOR APPROVAL

The Commission hereby finds and declares:

# 1. SITE DESCRIPTION, BACKGROUND, AND PROJECT DESCRIPTION

The Department of Fish and Game proposes under the permit amendment request to perform the second phase of a project to enhance existing wetlands to provide increased habitat value and diversity for water-associated wildlife at the Mad River Slough Wildlife Area (FSWA). (See Exhibits 1-3) The proposed improvements for the second phase primarily involve the creation of two shallow basins totaling 5.6 acres in size to retain water over a longer period of the winter and spring within and next to seasonally inundated sloughs by the excavation of 9,000 cubic yards of material. The proposed improvements also include the installation of two water control structures to manage water levels in the basins to be created. The first phase of the project was approved by the Commission in July, 2000 and was the subject of the original permit.

The project site is located at the north end of Humboldt Bay between Old Samoa Road and Humboldt Bay just west of the City of Arcata, Humboldt County. The project site includes the southern-most 50 acres of the 478 acres of fallow pastureland that comprise the Wildlife Area. The site is relatively flat and is bisected by multiple channels of an existing unnamed slough and by two existing gravel roads. With the exception of the roads, buildings, and levees, the entire site

is considered seasonal wetland. Five historic structures exist in the Wildlife area including two unoccupied residences and three wooden barns. The buildings are not a part of the proposed project and will not be impacted by the project. (see Exhibit Nos. 1 & 2)

Humboldt Bay and the surrounding agricultural lands provide habitat for a variety of wildlife. The MRSWA is habitat for waterfowl, shorebirds, wading birds, songbirds, and raptors. A smaller number of mammals, amphibians and reptiles also inhabit the area. Two species of fish occur in the project vicinity including the tidewater goby, a federally listed endangered species, and coast cutthroat trout, a California species of special concern. The state listed endangered peregrine falcon (recently federally delisted) is also present at the site. Other avian species known to commonly roost and forage at the site include northern harrier, white-tailed kite, and short-eared owl.

The primary plant species at the site are mostly exotic species typical of wet pastures including: velvet grass, annual bluegrass, dock, Canada thistle, and bird's foot trefoil. Bulrush sedge, Pacific silverweed, brass buttons, duckweed, and fat hen are among the other wetland plants that occur within the sloughs and lower, wetter areas. There are no rare or threatened plants within the project area.

The first phase of the enhancement project created additional seasonal and semi-permanent freshwater ponds by excavating six shallow depressions in the landscape, and installing water control structures to manipulate water levels in the ponds and sloughs for wildlife management purposes. (See Exhibit 3.)

One of the two seasonal basins proposed under the second phase of the wetland enhancement project would be located to the north of the six ponds created under Phase I. The second of the new ponds would be located to the east of the Phase I ponds. All of the ponds are near the southern end of the MRSWA, near the Arcata Bay levee.

#### Background

The MRSWA site was historically part of the extensive tidal marshes of Humboldt Bay, but was converted to agricultural use following the construction of a levee around this portion of Humboldt Bay in 1886. The site was farmed and grazed until 1987. In 1987, the area was acquired by the California Department of Fish and Game (DFG) with Proposition 19 Bond funds intended specifically for the acquisition of coastal wetlands.

Diking and filling in the early part of the last century to promote agricultural, industrial, and urban land uses has resulted in substantial degradation of northern California coastal wetlands, including those around Humboldt Bay. This degradation has resulted in a significant reduction in wetland function and wildlife values. Historically, Humboldt Bay extended from the sand spits that separate it from the Pacific Ocean to the base of the inland foothills. The bay was diked in the late 19<sup>th</sup> century to construct railroads and reclaim land for agriculture. This dike construction isolated the former tidelands from the bay. Like many of the historic tidelands around Humboldt Bay, the project area was never fully drained following the construction of the Bay levee and therefore, the vast majority of the project site remains seasonal wetland.

Although the land is now a state wildlife area, only a portion of the site had been enhanced to improve wetland habitat values prior to the development of the first phase of the enhancement project approved by the original permit.

The specific activities authorized in 2000 pursuant to Permit No. 1-99-063 under the first phase of the wetland enhancement project are described below in the following section.

# **Description of Original Project Approved Under CDP 1-00-025**

The wetland habitat enhancement project approved under the original permit was designed to accomplish the following goals:

- Provide shallow fresh or brackish water ponds for waterfowl from October through April;
- Maintain water in all interior sloughs through the waterfowl nesting season;
- Provide approximately 200 acres of short grass vegetative type suitable for shorebird feeding and resting use;
- Maintain a mixture of pastures, ponds and sloughs to encourage optimum use by wading birds;
- Develop and maintain suitable nesting and roosting habitat for wading birds;
- Increase the area's raptor prey base;
- Provide nesting and perching trees for raptors; and
- Restore riparian vegetation on selected interior sloughs.

Pursuant to these goals, the project enhanced approximately 260 acres of coastal wetland habitat to increase the biological diversity of the MRSWA. Authorized enhancement activities included: 1) excavating areas of existing slough channels to create six shallow ponds varying in size from 0.3 to 2.2 acres for a total of approximately 7.5 acres; 2) installing/upgrading eleven water control structures; 3) establishing 140 acres of short grass habitat adjacent to 85 acres of tall grass habitat; and 4) planting 7 acres of riparian vegetation. The improvements cause water to remain on the surface of the project area longer each year as a result of constructing shallow ponds and water control facilities. The establishment of short grass pasture and riparian vegetation was meant to increase the number and diversity of species that use the area. The wetland enhancement project was designed to attract shorebirds, wading birds, and waterfowl to the area. As waterfowl and shorebird numbers increase, the prey base for raptors and other predators would also increase. (see Exhibit Nos. 3 & 4).

The Commission approved the original permit with five special conditions. These conditions required that: (1) a final revised restoration monitoring plan incorporating certain performance standards and monitoring and reporting procedures be submitted for review and approval by the Executive Director to ensure that the goals and objectives of the restoration project would be met, (2) no excavated material or other construction

related debris be placed in coastal waters or wetlands and that all excess material and temporary fill be removed and disposed of in an approved location, (3) construction activities occur only between August 15<sup>th</sup> and November 15<sup>th</sup> to prevent conflicts with the primary wildlife breeding season at the site, (4) the applicant obtain appropriate project approval from the U.S. Army Corps of Engineers, and (5) the applicant manage the hydrology of the project site to avoid flooding the adjoining agricultural property.

The Commission approved the project in July, 2000. The Department of Fish & Game satisfied all of the prior to issuance conditions and the permit was issued on October 4, 2000. The ponds were constructed in the fall of 2001 and the riparian plantings were implemented over the course of two winter seasons ending in early 2002.

#### **Amendment Description**

The amendment request seeks approval for certain additional wetland enhancement activities primarily involving the creation of two small basins totaling 5.6-acres in size to retain water over a longer period of the winter and spring within and next to seasonally inundated sloughs by the excavation of approximately 9,000 cubic yards of material and the installation of water control structures to manage water levels in the basins to be created. The excavated material would be placed on top of the Arcata Bay perimeter levee. The proposed improvements also include the installation of temporary ditch crossings to the perimeter levee to provide access for construction equipment. Details of the various project elements are provided below:

#### a. Creation of Two Small Basins

The two new seasonal basins to be created are designed to retain runoff longer within existing seasonally inundated sloughs by use of small water control structures with flashboard risers as described below. As a result, the project will not change the existing wetland type. The objectives or goals of the creation of the two basins is to retain and enhance seasonal wetland characteristics by:

- Creating topographic complexity (islands and excavation);
- Interrupting artificial drainage and extending the period when water is retained during periods of rainfall and runoff for short periods (1-3 weeks) of time to favor the establishment of native obligate wetland species such as Scirpus robustus and Atriplex patula over introduced pasture grasses which dominate the wildlife area currently;
- Providing temporary open water that results in resting and feeding sites for resident and migratory waterbirds.

Both of the two new seasonal basins to be created would be located near the southern end of the MRSWA, near the Arcata Bay levee. One of the basins would be located to the north of the six ponds created under Phase I and the other would be located to the east of the Phase I ponds. Each basin would be approximately 2.8 acres in size. The basins would be created by excavating a total of approximately 9,000 cubic yards of material from existing seasonal palustrine agricultural wetland habitat (See Exhibit 4, 1 of 5 & 2 of 5). Each of the basins would be excavated to a depth of about 12 inches with side slopes of 10:1.

# b. Water Control Structures

Water levels for the two new basins would be managed by two new water control structures. These structures would be installed within existing culverted earthen berms along slough crossings (See Exhibit 4, 1 of 5 & 3 of 5). The new water control structures would consist of an 18-inch plastic culvert that would allow water to pass through the berm. The up-slough end of each culvert would be filled with a box riser with a flashboard water control device that could be raised or lowered to hold or release water.

# c. Placement of Excavated Materials on Levee

The approximately 9,000 cubic yards of material to be excavated to create the two new seasonal basins would be placed atop portions of the existing degraded perimeter levee that separated the MRSWA from Arcata Bay (See Exhibit 4, 1 of 5 & 4 of 5). The levee is an old earthen levee that has slumped and eroded in many spots. The material would be placed atop approximately 4,040 lineal feet of the levee. The material would only be placed on the top of the levee; none of the material would be placed along the inboard or outboard faces of the levee to avoid filling adjacent wetlands. The affected portions of the levee would be reseeded with native vegetation upon completion of the placement of the material.

# d. <u>Temporary Ditch Crossings</u>

Tidal areas of Arcata Bay adjoin the levee to the south and a borrow ditch lies adjacent to the levee to the north along the levee's inboard side. To gain access to the levee top, two temporary ditch crossings would be established across the borrow ditch. At each location, two 36-foot-long segments of 36"-diameter culvert would be placed side by side within the ditch and covered with fabric extending beyond the edges of the ditch, gravel material, and earthen fill (See Exhibit 4, 5 of 5). The earthen fill would be placed in a manner that would also establish a ramp to enable earth-moving equipment to climb the side of the levee and gain access to the levee top. The two temporary ditch crossings would be removed after placement of the excavated material on the levee top. The drainage ditch would be restored to its original contour and any upland bare areas would be planted with grass.

#### 2. <u>PROTECTION OF THE WETLAND ENVIRONMENT</u>

Section 30233 of the Coastal Act states that the diking, filling, or dredging of wetlands shall be permitted only when there is no feasible less environmentally damaging alternative, and only when feasible mitigation measures have been provided to minimize adverse environmental effects. Section 30233 also specifies that diking, filling, or dredging are allowed in wetlands only for limited uses.

The Phase II wetland enhancement activities authorized by this permit amendment involve dredging in the form of excavating approximately 9,000 cubic yards of material from approximately 5.6-acres of seasonal wetland area within and around existing water channels to create wetland basins. The project also includes the placement of approximately 1,000 square feet of temporary earthen and culvert fill within the ditch that adjoins the bay-front levee in two locations to create ditch crossings for construction equipment so as to gain access to the levee top for the placement of the material excavated from the seasonal wetlands to create the basins. No other new filling of wetlands is proposed as the new water control structures will be constructed within existing culverted earthen berms that have served as road crossings of existing water channels and all of the material excavated from the basins will be placed on top of the bay-front levee out of the wetlands that exist on the subject property.

Section 30233(a) provides as follows, in applicable part:

- (a) The diking, filling, or dredging of open coastal waters, wetlands, estuaries, and lakes shall be permitted in accordance with other applicable provisions of this division, where there is no feasible less environmentally damaging alternative, and where feasible mitigation measures have been provided to minimize adverse environmental effects, and shall be limited to the following:
  - (1) New or expanded port, energy, and coastal-dependent industrial facilities, including commercial fishing facilities.
  - (2) Maintaining existing, or restoring previously dredged, depths in existing navigational channels, turning basins, vessel berthing and mooring areas, and boat launching ramps.
  - (3) In wetland areas only, entrance channels for new or expanded boating facilities; and in a degraded wetland, identified by the Department of Fish and Game pursuant to subdivision (b) of Section 30411, for boating facilities if, in conjunction with such boating facilities, a substantial portion of the degraded wetland is restored and maintained as a biologically productive wetland. The size of the wetland area used for boating facilities, including berthing space,

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turning basins, necessary navigation channels, and any necessary support service facilities, shall not exceed 25 percent of the degraded wetland.

- (4) In open coastal waters, other than wetlands, including streams, estuaries, and lakes, new or expanded boating facilities and the placement of structural pilings for public recreational piers that provide public access and recreational opportunities.
- (5) Incidental public service purposes, including but not limited to, burying cables and pipes or inspection of piers and maintenance of existing intake and outfall lines.
- (6) Mineral extraction, including sand for restoring beaches, except in environmentally sensitive areas.
- (7) <u>Restoration purposes</u>.
- (8) Nature study, aquaculture, or similar resource dependent activities.

(C) In addition to the other provisions of this section, diking, filling, or dredging in existing estuaries and wetlands shall maintain or enhance the functional capacity of the wetland or estuary...[emphasis added]

The above policies set forth a number of different limitations on what types of projects may be allowed in coastal wetlands. For analysis purposes, the limitations applicable to the subject project can be grouped into four general categories or tests. These tests are:

- 1. The purpose of the filling, diking, or dredging is for one of the eight uses allowed under Section 30233;
- 2. that feasible mitigation measures have been provided to minimize adverse environmental effects;
- 3. that the project has no feasible less environmentally damaging alternative; and
- 4. that the biological productivity and functional capacity of the habitat shall be maintained and enhanced where feasible.

#### a. Allowable Use for Dredging and Filling of Coastal Waters

The first test set forth above is that any proposed filling, diking or dredging must be for an allowable purpose as specified under Section 30233 of the Coastal Act. One of the allowable

purposes for diking, filling, or dredging, under Section 30233(a)(7) is "restoration purposes." As discussed in detail above, the proposed wetland enhancement project requires dredging of wetlands to create ponds and the placement of temporary fill for two ditch crossings. The project is designed to increase the diversity of wetland types within the wildlife area and enhance habitat values for water-associated wildlife. The proposed excavation of the two basins would create seasonal freshwater ponds. These ponds, with the installation of the proposed new water control structures, would hold water in the vicinity of two existing channels for a longer period of the year. The seasonal ponding would provide enhanced habitat for feeding and resting habitat for migrating and wintering waterfowl and shorebirds and provide brood water for local nesting ducks and geese. The Commission finds that wetland enhancement projects, where the sole purpose of the project is to improve wetland habitat values, constitute diking, dredging, or fill for a "restoration purposes" consistent with Section 30233(a)(7). In its findings for approval of the original permit, the Commission found that the fill placed for dikes and the material excavated to create basins constituted diking, dredging, or fill for a "restoration purpose." The Commission similarly concurred with a consistency determination for a wetland enhancement project proposed by the U.S. Fish and Wildlife Service at the Humboldt Bay National Wildlife Refuge (CD-33-92). This project also involved dredging, diking, and filling of wetlands to create and enlarge shallow ponds and sloughs and replace water control structures and was approved as diking, dredging, or fill for a "restoration purpose" under Section 30233(a)(7). Another similar wetland enhancement project approved by the Commission as diking, dredging, or fill for a "restoration purpose" under Section 30233(a)(7) involved the excavation of six acres of Doran Park Marsh to create a new tidal pond wildfowl foraging area at the southeast end of Bodega Harbor, Sonoma County (CDP #1-93-04). More recently, the Commission approved a similar wetland enhancement project proposed by the Department of Fish and Game involving excavation of slough channels to create freshwater ponds at the Fay Slough Wildlife Area adjacent to Humboldt Bay to the east and south of the subject site (CDP #1-00-025 and CDP Amendment No. 1-00-025-A1). Consistent with these Commission actions, the proposed project, solely intended to enhance wetland habitat values on the Mad River Slough Wildlife Area, is considered diking, dredging, or fill for a "restoration purpose" and is allowable under Section 30233.

This finding that the proposed diking, filling, and dredging is for a "restoration purposes" is based, in part, on the assumption that the proposed project will be successful in increasing wetland habitat values. Should the project be unsuccessful at increasing wetland habitat values, or worse, if the proposed diking, filling, and dredging impacts of the project actually result in long term degradation of the habitat, the proposed diking, filling, and dredging would not actually be for "restoration purposes."

To ensure that Phase I of the wetland enhancement project approved under the original permit will achieve the wetland enhancement objectives for which the project is intended, the Commission attached Special Condition No. 1 to the original permit. This condition required the applicant to submit a final revised monitoring plan for the review and approval by the Executive Director that outlined a method for measuring and

documenting the improvements in habitat value and diversity at the site, including wildlife and plant species and abundance, over the course of five years following project completion. Furthermore, Special Condition No. 1 of the original permit required the monitoring plan to include provisions for remediation to ensure that the goals and objectives of the wetland enhancement project are met.

The monitoring plan for Phase I was designed to cover the entire site area, including the locations of the new basins proposed under Phase II. Phase I included monitoring for vegetation and increased bird use and the applicant believes the bird survey routes established previously would be adequate to capture bird usage changes for both Phase I and Phase II. Therefore, the applicant believes that the monitoring program is sufficient to cover the new basins and ensure that the goals and objectives of Phase II will also be met.

The Commission finds that if the monitoring period were extended, the existing monitoring program with it's provisions for remediation would ensure that the goals and objectives of the wetland enhancement project would be met. The 5-year monitoring begun under the original permit has already been underway for more than two years. As the monitoring of the Phase II improvements would incorporate and rely on the bird monitoring being performed for Phase 1, it is necessary that the bird monitoring being performed for Phase 1, it is necessary that the bird monitoring being performed under Phase I continue throughout the entire time period that monitoring is necessary for Phase II. Therefore, the Commission attaches Special Condition No. 6 to this amended permit to require that the applicant submit for the review and written approval of the Executive Director and prior to issuance of the amended permit a final revised monitoring program that substantially conforms with the monitoring plan approved pursuant to Special Condition No. 1 of the original permit to the Commission but is revised to provide that the monitoring and remediation of the entire restoration site including Phase 1 and Phase II be conducted for five more years after completion of all construction of the Phase II improvements.

The Commission finds that as conditioned, the dredging and filling in coastal wetlands approved under the permit as amended for the proposed wetland enhancement project is filling and dredging for "restoration purposes," and therefore is an allowable use pursuant to Section 30233(a)(7) of the Coastal Act.

# b. Adequate Mitigation Measures

The second test set forth by Section 30233 is that adequate mitigation must be provided for the adverse environmental impacts of an allowable filling and dredging project. Potential significant adverse impacts often associated with dredging or filling projects of this kind in coastal wetlands include: (1) the loss of wetland habitat area, (2) impacts to sensitive vegetation, (3) conversion of one type of wetland to another, (4) impacts to fish and wildlife habitat, and (5) water pollution in

the form of sedimentation or debris entering coastal waters. Overall, the proposed Phase II improvements would enhance wetland habitat values and would produce generally only beneficial environmental effects. However, the proposed project must be conditioned to ensure that potential significant adverse impacts are minimized.

# i) Loss of Wetland Area

A significant adverse impact which can result from dredging and filling in wetlands is the net loss of wetland surface area and volume. As discussed above, the Phase II improvements include approximately 1,000 square feet of temporary wetland fill for installation of two ditch crossings across the ditches that adjoin the bay-front levee that separates the Mad River Slough Wildlife Area from Arcata Bay. The crossings are needed to provide access for construction vehicles that would transport the material excavated from the proposed new basins to the top of the levee where they will be deposited outside of any wetlands.

As proposed, the ditch crossings would be temporary. All fill associated with the ditch crossings would be removed upon completion of the placement of the excavated material atop the levee. Existing vegetation and organisms that inhabit the ditch environment would likely recolonize the relatively small affected areas (totalling approximately 0.02 acres ) within a short period of time. Thus, the temporary fill associated with the ditch crossings would have only minor short-term effects on wildlife values. Special Condition No. 2 of the original permit requires, among other things, that all temporary fill associated with the ditch crossings used to access the Humboldt Bay levee shall be removed within 30 days of project completion and the ditch shall be recontoured and revegetated to its condition that existed prior to the placement of the fill. Special Condition No. 2 of the original permit is reimposed without revision on this permit amendment and remains in full force and effect and will apply to the new ditch crossings proposed as part of the amendment. This condition also requires that all excavated material be placed on site in upland locations. Therefore, the Commission finds that the proposed development would not result in a significant loss of wetland surface area and volume.

# ii) <u>Vegetation</u>

The project would remove some wetland vegetation in the area to be excavated and converted to a shallow water pond. The DFG Natural Diversity Data Base identifies sensitive species including Humboldt Bay owl's clover and Point Reyes bird's beak as being located within the project vicinity. However, plant surveys conducted at the site have not found either of these sensitive species. Therefore, the excavation of the pond would not adversely affect rare plants and an increase in the quantity and diversity of wetland-associated plant species within the affected areas would naturally occur as the area becomes wet for longer periods each year. Therefore, the proposed excavation work would enhance wetland vegetation.

#### iii) Fish and Wildlife

The project would increase the quantity, depth, and duration of water on the Mad River Slough Wildlife Area and would promote an increase in diversity of wildlife habitat and abundance of water-associated wildlife. Increased annual duration of shallow water and low gradient pond edges would attract shorebirds and foraging Canada geese. The increase in open water and marsh habitat is also expected to draw herons, egrets, and American coot. Emergent vegetation within ponds would provide cover for rails and nest structure for red-winged blackbirds and marsh wrens. Although increases in bird species would be the most notable in the area, post-project conditions would also favor increases in mammals, reptiles, amphibians, and invertebrates. Predators such as river otter, mink, peregrine falcon, and merlin would benefit indirectly by an increase in food sources.

While the intended purpose of the proposed project is to enhance habitat values of the existing wetlands, the project would result in short-term impacts to existing wetland vegetation and seasonal wetland habitat. The project involves excavating approximately 9,000 cubic yards of material within seasonal wetlands to create 5.6 acres of shallow ponds. The excavation would temporarily eliminate some wetland vegetation and seasonal wetland habitat from the areas to be excavated. However, if the project achieves its enhancement goals, wetland habitat values would be greatly expanded and the short-term impacts of the excavation would be fully mitigated.

To ensure that the project achieves the wetland enhancement objectives for which the project is intended and thereby mitigates for the short-term loss of wetland habitat resulting from the proposed excavation work, the Commission attaches Special Condition No. 6 to this amended permit. The special condition requires that the applicant submit for the review and written approval of the Executive Director and prior to issuance of the amended permit a final revised monitoring program for monitoring the success of Phase II of the wetland enhancement project and provides for remediation should the goals and objectives of the wetland enhancement project not be achieved.

In addition, to ensure that project construction activities do not interfere with the breeding season for some species present at the site, the Phase II improvement authorized by the amended permit are subject to the requirements of Special Condition No. 3 of the original permit which are reimposed without revision and will thereby remain in effect so as to limit construction activities to occur only between August 15<sup>th</sup> and November 15<sup>th</sup>.

# iv) <u>Water Quality</u>

Potential adverse impacts to coastal waters could occur in the form of sedimentation or debris from project excavation and fill being allowed to enter coastal waters. The requirements of Special Condition No. 2 of the original permit which are reimposed without revision and will thereby remain in effect, will help ensure that significant adverse impacts to water quality do not occur. The special condition requires that no construction materials, debris, or waste be placed or stored where it could be subject to entering the waters of Humboldt Bay or existing sloughs. The Phase II project includes placement of the 9,000 cubic yards of material excavated to create the two new basins on top of the bay-front levee that separates the wildlife area from Arcata Bay. The levee is flanked by tidelands to the south and a ditch and seasonal wetlands to the north. The placement of this material atop the levee next to wetland habitat increases the risk of sedimentation of the wetlands. Therefore, the Commission attaches to the amended permit Special Condition No. 7 which requires that (1) all excavated materials to be placed on the levee shall be placed on the levee surfaces only and not extend to adjacent wetland areas, and (2) the levee areas to be covered with excavated material shall be seeded with native grasses of local stock upon completion of the wetland enhancement activities and prior to the rainy season.

The Commission finds that the proposed wetland enhancement project is a permitted use under Section 30233 of the Coastal Act, and that as conditioned, all potential adverse impacts have been minimized to the maximum extent feasible.

#### c. Alternatives Analysis

The third test set forth by Section 30233 is that the proposed dredge or fill project must have no feasible less environmentally damaging alternative. In this case, the Commission has considered the various alternatives presented by DFG and determines that there is no feasible less environmentally damaging alternative to the project as conditioned by Special Conditions No. 1-8. A total of five possible alternatives to the proposed project have been identified including: (1) restoring tidal action, (2) sealing existing tide gates, (3) creating ponds above grade, (4) creating narrower ditch crossings that would require less fill, and (5) the no project alternative.

#### Breaching the Humboldt Bay Dike

As discussed previously, the subject site, and much of the bottomlands surrounding Humboldt Bay, were cut off from tidal action over 100 years ago by the construction of levees to drain the land for agricultural uses. Breaching the levees would restore tidal action to the area and would allow for the reestablishment of salt marsh habitat. While this alternative would more effectively restore historic environmental conditions at the site, breaching the levee would also flood adjacent private lands and public roads. Substantial new levees would need to be constructed to protect surrounding areas and contain the tidal action to the subject site. The construction of new levees would require extensive wetland fill and would be extremely costly. Therefore, breaching existing levees to restore tidal action is not a feasible less environmentally damaging alternative.

#### Sealing the Tide Gates

A primary method of restoring and enhancing wetlands is to increase the water surface and holding capacity of the land. Sealing the existing tide gates at the subject site to prevent water from draining to Humboldt Bay would keep standing water on the site longer and would meet that objective of the proposed project. However, without the ability to manage water levels at the relatively flat site, rising water would eventually flood adjacent property owners and public roads. Similar to the option discussed above, new levees would need to be constructed to contain water on the MRSWA and prevent flooding of adjacent lands and would require costly wetland fill. Therefore, sealing the tide gates to hold water on the site is not a feasible less environmentally damaging alternative.

# Construction of New Dikes to Create Ponds Above Grade

As noted above, restoring and enhancing wetlands at the MRSWA requires increasing the water surface and holding capacity of the land. One method of accomplishing this would be to construct new levees on the site that would act as berms to hold water for longer periods of time. This alternative would reduce or eliminate the need for dredging or excavation to create water basins. However, this alternative would also require extensive placement of wetland fill. The construction of levees would reduce the total amount of wetlands at the site by the amount of area to be covered by the levees. The proposed excavation of basins, on the other hand would not reduce the total amount of wetlands as the basins and the area around them would remain wetlands. No permanent loss of wetlands would occur. Therefore, constructing new levees to create ponds above grade is not a less feasible environmentally damaging alternative.

#### Creating Narrower Ditch Crossings

The new wetland fill proposed by the permit amendment request consists of the temporary ditch crossings to be installed to permit access for construction vehicles to the levee top to deposit material excavated from the basins. The two ditch crossings would each be approximately 12 feet wide at the top and 36 feet wide at its base along the ditch bottom, and require approximately 500 square feet of wetland fill. If narrower ditch crossings could be installed, the total amount of wetland fill impact would be reduced. According the Department of Fish & Game staff, however, the width of the ditch crossings cannot be reduced. Transporting the excavated fill to the levee will require the use of heavy equipment. The very top of the ditch crossings must be at least 12 feet wide to provide sufficient width for the construction vehicles. To ensure the stability of the earthen control structure, the sides of the structure must slope outward at an angle that is not too steep. As proposed, the sides of the structure would be constructed at approximately a 2:1 slope, which is about the steepest slope that can be used from a stability and engineering standpoint. Furthermore, the Commission notes that all of the fill for

the temporary ditch crossings will be removed and the crossing areas restored upon project completion. Therefore, creating narrower ditch crossings is not a feasible less environmentally damaging alternative.

#### No Project

The "no project" alternative would leave the portions of the Mad River Slough Wildlife Area where the additional basins are proposed in their current condition with tall, rank vegetation and limited areas of standing water throughout the year. The "no project" alternative would eliminate the opportunity for increased habitat diversity and increased species abundance at the Wildlife Area. Therefore, the no project alternative is not a feasible less environmentally damaging alternative, as it would not accomplish the project objectives of enhancing wetland habitat values at the Mad River Slough Wildlife Area.

#### **Conclusion**

Based on the alternatives analysis above, the Commission concludes that the proposed project amendment, to excavate slough channels to create shallow ponds below grade, is the least environmentally damaging feasible alternative for enhancing wetland habitat values at the site and is consistent with Section 30233.

# d. Maintenance and Enhancement of Marine Habitat Values

The fourth general limitation set forth by Section 30233 is that any proposed dredging or filling in coastal wetlands must maintain and enhance the biological productivity and functional capacity of the habitat, where feasible.

The amended project is proposed as a restoration project that would enhance the biological productivity and functional capacity of the wetland habitat at the Mad River Slough Wildlife Area. The proposed project would enhance the habitat value of the existing seasonal wetlands by creating two additional basins to increase the duration and availability of water at the site. Additionally, the proposed project would create a greater diversity of wetland habitats. To ensure that the habitat enhancement objectives are realized, Special Condition No. 6 requires the applicant to submit a revised monitoring program to monitor how habitat values change as a result of the project. The condition further requires the applicant to submit plans for remediation of the site within one year if monitoring determines that the project has not been successful in achieving the goals, objectives, and performance standards identified in the approved monitoring program. In addition, the amended project would not result in a decrease in wetland area, as the proposed fill for the temporary ditch crossings would be removed upon project completion. Furthermore, as discussed above in the section of this finding on mitigation, the conditions of the permit would ensure that the project would not have significant adverse impacts on the existing

freshwater wetlands or on the water quality of the water channels within the Mad River Slough Wildlife Area.

Therefore, for all of the above reasons, the Commission finds that the amended development would maintain and enhance the biological productivity and functional capacity of the wetlands consistent with the requirements of Section 30233 of the Coastal Act.

# Conclusion

The Commission thus finds that the project is an allowable use, that there is no feasible less environmentally damaging alternative, that feasible mitigation is required for potential impacts associated with the dredging and filling of coastal wetlands, and that habitat values will be maintained and enhanced. Therefore, the Commission finds that the amended development, as conditioned, is consistent with Section 30233 of the Coastal Act.

#### 3. <u>PUBLIC ACCESS</u>

Coastal Act Section 30210 requires in applicable part that maximum public access and recreational opportunities be provided when consistent with public safety, private property rights, and natural resource protection. Section 30212 of the Coastal Act requires that access from the nearest public roadway to the shoreline be provided in new development projects except where it is inconsistent with public safety, military security, or protection of fragile coastal resources, or adequate access exists nearby. Section 30211 requires that development not interfere with the public's right to access gained by use or legislative authorization. In applying these sections of the Coastal Act, the Commission is also limited by the need to show that any denial of a permit application based on these sections, or any decision to grant a permit subject to special conditions requiring public access, is necessary to avoid or offset a project's adverse impact on existing or potential access.

The entire Mad River Slough Wildlife Area is open to the public with the exception of the Bay levee and the five structures on the site. The Mad River Slough Wildlife Area is open to the public year-round for wildlife-related activities such as bird watching, kayaking, hunting (pursuant to applicable seasons and regulations), research, and education. Activities that are not compatible with wildlife, such as off-road vehicle riding, are not allowed at the site. The proposed project does not involve any changes or additional restrictions to existing public access including during project construction. In fact, public use of the site is expected to increase after the project as a result of increased wildlife abundance and diversity. Sufficient parking exists to accommodate the current level of public use as well as the anticipated increase in use following project completion.

Therefore, the Commission finds that the proposed project would not have an adverse effect on public access, and that the amended project as proposed without new public access is consistent with the requirements of Coastal Act Sections 30210, 30211, and 30212.

# 4. <u>U.S. ARMY CORPS OF ENGINEERS APPROVAL</u>

The proposed Phase II improvements require review and approval by the U.S. Army Corps of Engineers. Pursuant to the Federal Coastal Zone Management Act, any permit issued by a federal agency for activities that affect the coastal zone must be consistent with the coastal zone management program for that state. Under agreements between the Coastal Commission and the U.S. Army Corps of Engineers, the Corps will not issue a permit until the Coastal Commission approves a federal consistency certification for the project or approves a permit. To ensure that the project ultimately approved by the Corps is the same as the project authorized herein, the Commission attaches Special Condition No. 8, which requires the permittee to submit to the Executive Director evidence of U.S. Army Corps of Engineers approval of the Phase II wetland enhancement activities prior to the commencement of work.

### 5. CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

Section 13096 of the Commission's administrative regulations requires Commission approval of Coastal Development Permit applications to be supported by a finding showing the application, as modified by any conditions of approval, to be consistent with any applicable requirements of the California Environmental Quality Act (CEQA). Section 21080.5(d)(2)(A) of CEQA prohibits a proposed development from being approved if there are feasible alternatives or feasible mitigation measures available which would substantially lessen any significant adverse effect which the activity may have on the environment.

The Commission incorporates its findings on Coastal Act consistency at this point as if set forth in full. The findings address and respond to all public comments regarding potential significant adverse environmental effects of the project that were received prior to preparation of the staff report. As discussed above, the development as amended has been conditioned to be found consistent with the policies of the Coastal Act. Mitigation measures that will minimize or avoid all significant adverse environmental impacts have been required. As conditioned, there are no other feasible alternatives or feasible mitigation measures available, beyond those required, which would substantially lessen any significant adverse impacts that the activity may have on the environment. Therefore, the Commission finds that the development as amended and conditioned to

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mitigate the identified impacts, can be found to be consistent with the requirements of the Coastal Act to conform to CEQA.

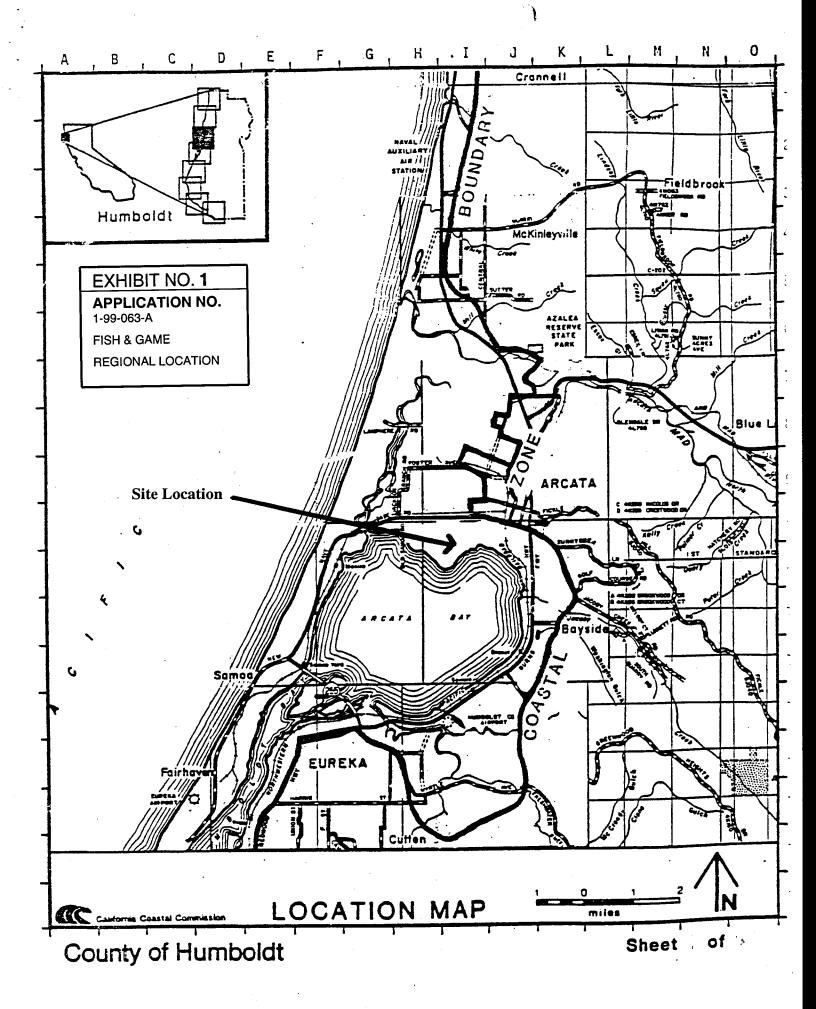
# **Exhibits:**

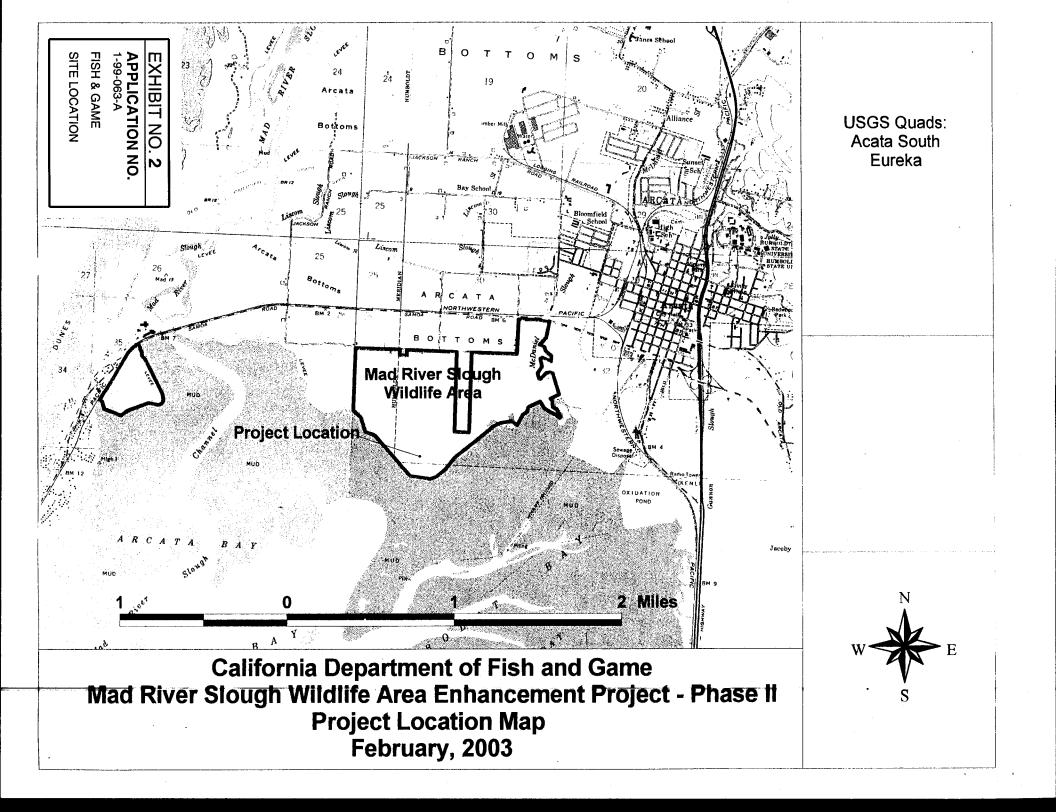
- Regional Location Map
  Site Location Map
- 3. Phase I As Built
- 4. Proposed Amendment Plans
- 5. Original Permit Findings

### **ATTACHMENT**

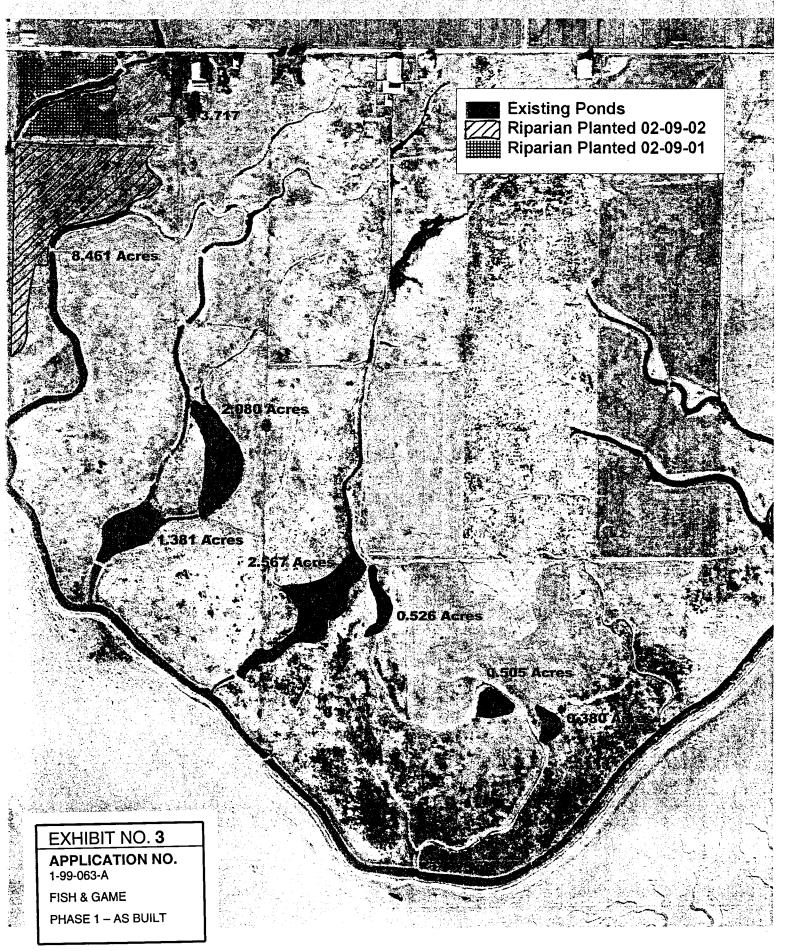
#### Standard Conditions:

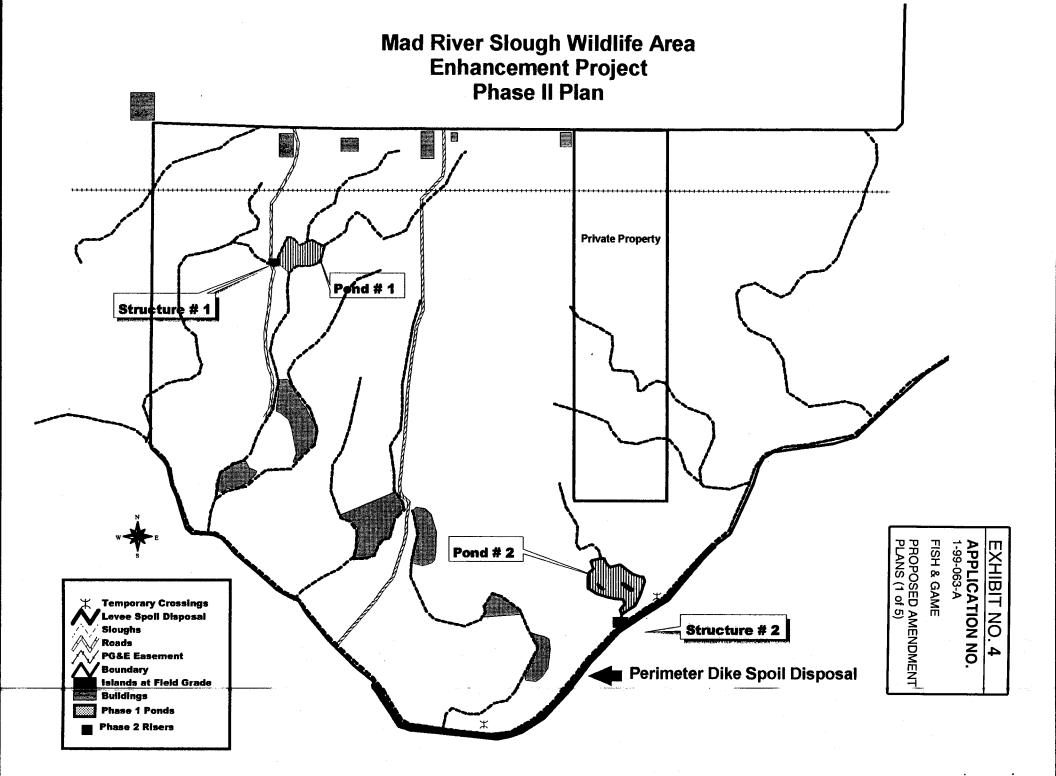
- 1. <u>Notice of Receipt and Acknowledgment</u>. The permit is not valid and development shall not commence until a copy of the permit, signed by the permittee or authorized agent, acknowledging receipt of the permit and acceptance of the terms and conditions, is returned to the Commission office.
- 2. <u>Expiration</u>. If development has not commenced, the permit will expire two years from the date on which the Commission voted on the application. Development shall be pursued in a diligent manner and completed in a reasonable period of time. Application for extension of the permit must be made prior to the expiration date.
- 3. <u>Interpretation</u>. Any questions of intent of interpretation of any condition will be resolved by the Executive Director or the Commission.
- 4. <u>Assignment</u>. The permit may be assigned to any qualified person, provided assignee files with the Commission an affidavit accepting all terms and conditions of the permit.
- 5. <u>Terms and Conditions Run with the Land</u>. These terms and conditions shall be perpetual, and it is the intention of the Commission and the permittee to bind all future owners and possessors of the subject property to the terms and conditions.

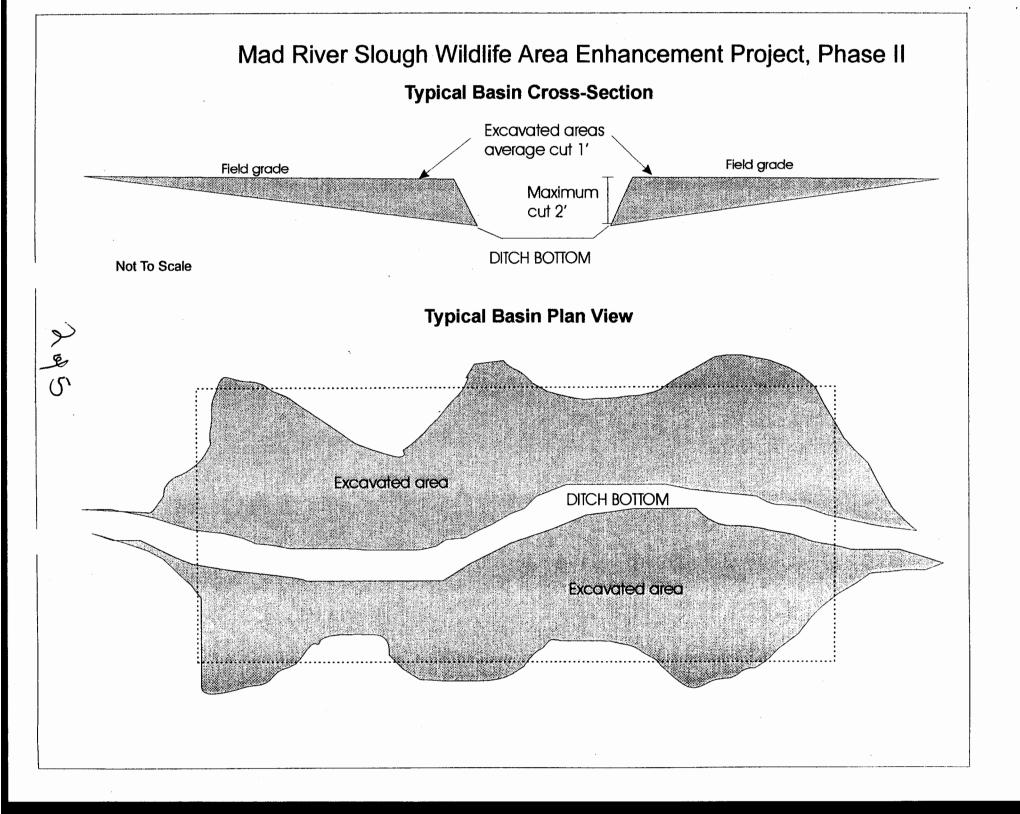


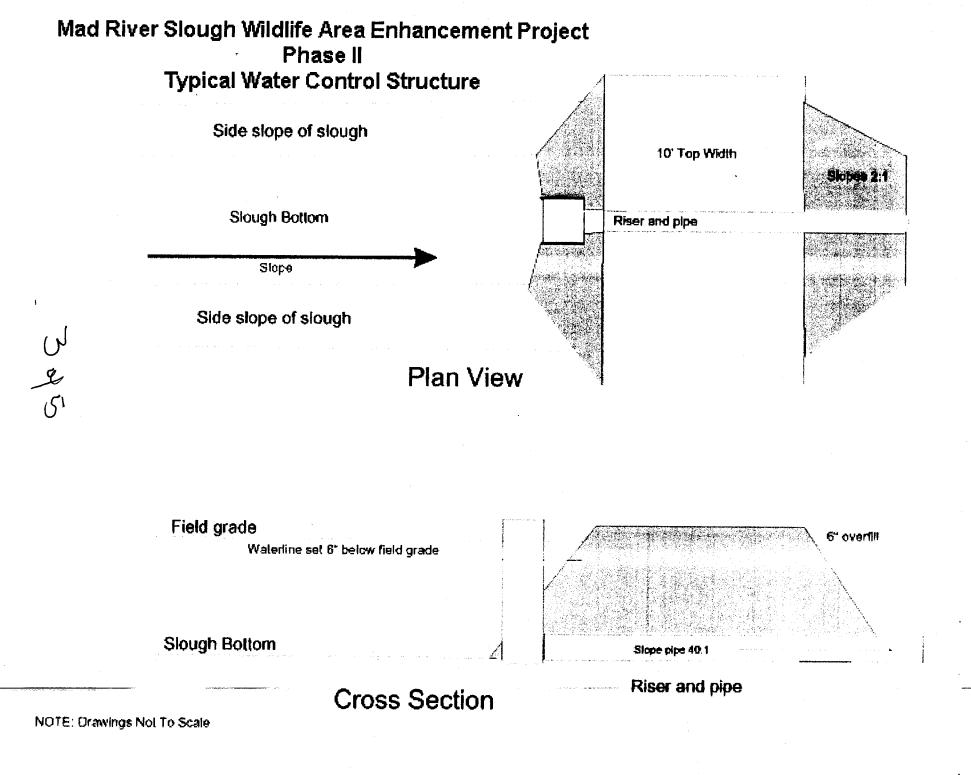


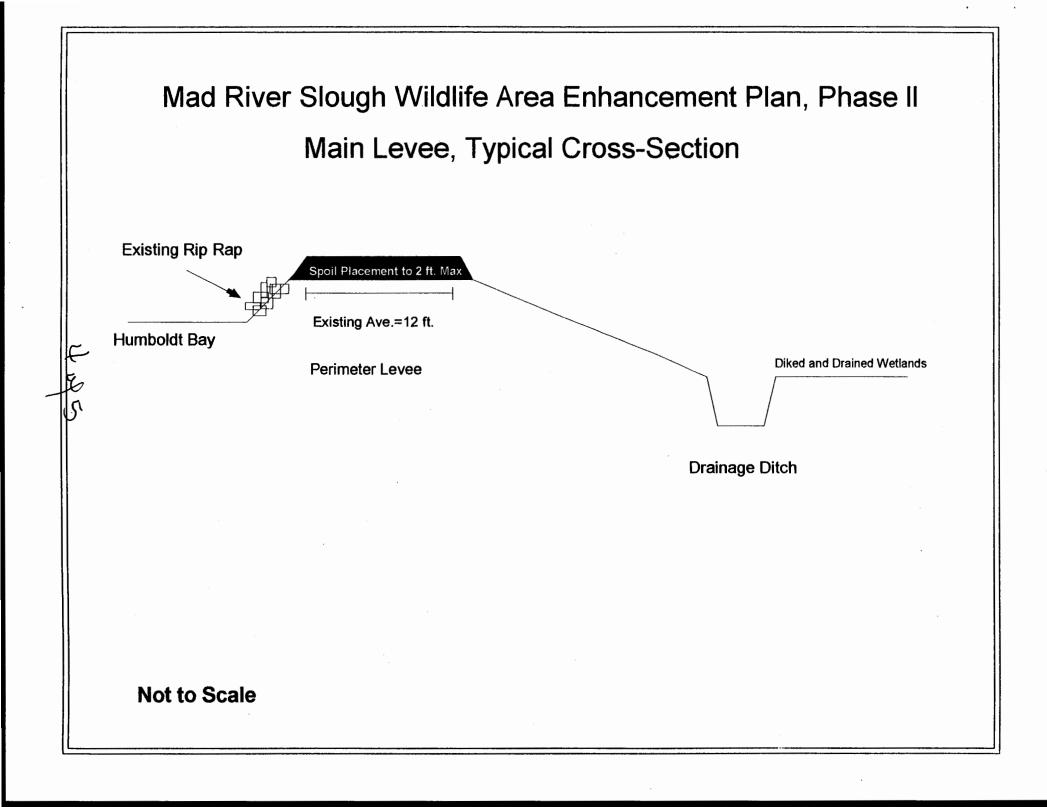
# Mad River Wildlife Area - Phase 1.



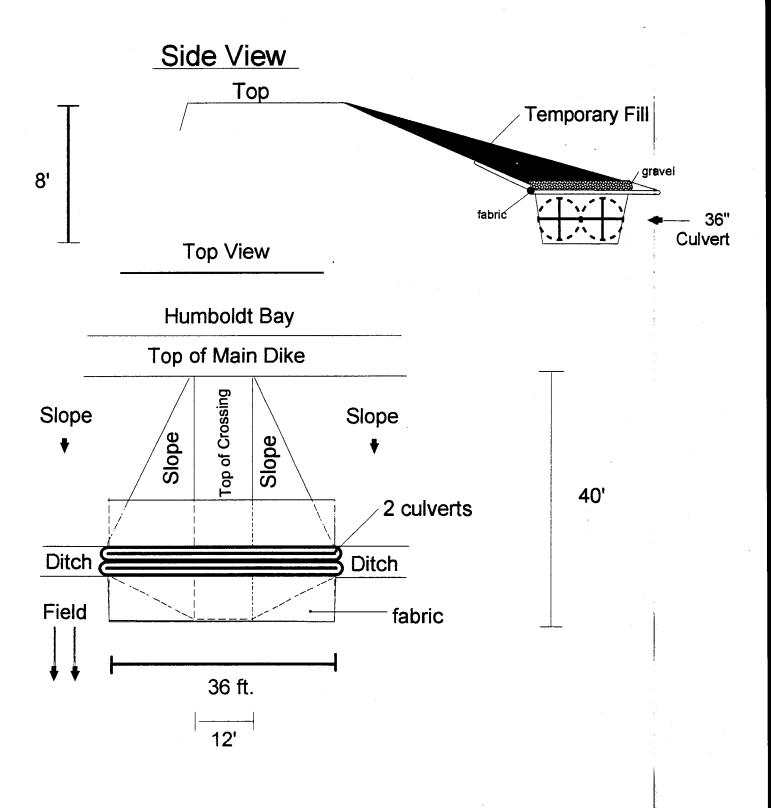








# Mad River Slough Wildlife Area Temporary Ditch Crossing Typical Cross Section



5095

MAILING ADDRESS: P. O. BOX 4908 EUREKA, CA 95502-4908





EXHIBIT NO. 5 APPLICATION NO. 1-99-063-A

**FISH & GAME** 

**ORIGINAL PERMIT** FINDINGS (1 of 20)

Staff: Staff Report: Hearing on Revised Findings: Commission Action on Revised Findings:

Tiffany S. Tauber October 27, 2000

November 17, 2000

# STAFF REPORT: REVISED FINDINGS

APPLICATION NO .:

APPLICANT:

**PROJECT LOCATION:** 

PROJECT DESCRIPTION:

# COMMISSIONERS ON THE PREVAILING SIDE:

# SUMMARY OF COMMISSION'S ACTION:

# 1-99-063

# California Department of Fish and Game

Mad River Slough Wildlife Area, off of Old Samoa Road, southwest of Arcata, Humboldt County (APNs 506-031-05, 506-041-02)

Enhance existing wetlands by: (1) excavating segments of an existing slough to create six ponds varying in size from 0.3 to 2.2 acres, (2) upgrading/installing eleven water control structures, (3) creating 140 acres of short-grass habitat and 85 acres of tall grass habitat, and (4) planting 7 acres of riparian vegetation. Excavated spoil material will be deposited over 5,503 linear feet of existing roads, and over 6,194 linear feet of the top of the Humboldt Bay levee.

Commissioners Daniels, Desser, Dettloff, Estolano, Hart, Kruer, McClain-Hill, Nava, Rose, Woolley, Chairman Wan

Approval with conditions

# CALIFORNIA DEPAK MENT OF FISH AND GAME 1-99-063 (REVISED FINDINGS) Page 2

GENERAL PLAN DESIGNATION:	Agriculture Exclusive
ZONING DESIGNATION:	Agriculture Exclusive 60-acre-minimum
LOCAL APPROVALS RECEIVED:	None Required
OTHER APPROVALS REQUIRED:	Army Corps of Engineers
SUBSTANTIVE FILE DOCUMENTS:	Humboldt County LCP

#### STAFF NOTES:

#### 1. Procedure

The Commission held a public hearing and approved the permit with conditions at the meeting of July 14, 2000. The adopted conditions for approval differ slightly from those contained in the written staff recommendation dated June 23, 2000. At the public hearing, the staff revised its recommendation to clarify Special Condition No.1(a) & 1(b) to eliminate "increases in raptor use" as a monitoring standard, as the applicant clarified that this was not an intended goal of the project. Staff further revised the staff report to clarify that the slough on the project site is actually an unnamed slough rather than McDaniel slough as was inaccurately referenced in the staff report dated June 23, 2000. In addition, at the hearing, the Commission added Special Condition No. 5 which requires the applicant to manage the hydrology in relation to the road to avoid flooding the adjoining agricultural property. The Commission adopted the staff recommendation as modified. As the Commission's action on the project differed from the written staff recommendation, staff has prepared the following set of revised findings for the Commission's consideration as the needed findings to support its action at the hearing.

The Commission will hold a public hearing and vote on the revised findings at its November 17, 2000 meeting. The purpose of the hearing is to consider whether the revised findings accurately reflect the Commission's previous action rather than to reconsider the merits of the project or the appropriateness of the adopted conditions. Public testimony will be limited accordingly.

The following resolution, conditions, and findings were adopted by the Commission on July 14, 2000 upon conclusion of the public hearing.

#### 2. Standard of Review

The proposed project is located in the Commission's retained jurisdiction. Humboldt County has a certified LCP, but the site is within an area shown on State Lands Commission maps over which the state retains a public trust interest. Therefore, the standard of review that the Commission must apply to the project is the Chapter 3 policies of the Coastal Act.

2920

# CALIFORNIA DEPAR .ENT OF FISH AND GAME 1-99-063 (REVISED FINDINGS) Page 3

#### MOTION, STAFF RECOMMENDATION AND RESOLUTION:

The staff recommends that the Commission adopt the revised findings in Section IV below, in support of the Commission's action on July 14, 2000, approving the project with conditions. The proper motion is:

#### Motion:

I move that the Commission adopt the revised findings dated October 27, 2000, in support of the Commission's action on July 14, 2000, to approve with conditions Coastal Development Permit No. 1-99-063.

Staff recommends a YES vote on the motion. Passage of this motion will result in the adoption of revised findings as set forth in this staff report. The motion requires a majority vote of the members from the prevailing side present at the July 14, 2000 Commission hearing, with at least three of the prevailing members voting. Only those Commissioners on the prevailing side of the Commission's action on the permit are eligible to vote. See the listing on Page 1.

#### **RESOLUTION TO ADOPT REVISED FINDINGS:**

The Commission hereby adopts the findings set forth below for Coastal Development Permit No. 1-99-063 on the ground that the findings support the Commission's decision made on July 14, 2000 and accurately reflect the reasons for it.

# COMMISSION ACTION:

The adopted resolution, conditions, and findings in support of the Commission's July 14, 2000 action are provided below.

#### I. ADOPTED RESOLUTION:

The Commission hereby approves a coastal development permit for the proposed development and adopts the findings set forth below on grounds that the development, as conditioned, will be in conformity with the policies of Chapter 3 of the Coastal Act. Approval of the permit complies with the California Environmental Quality Act because either 1) feasible mitigation measures and/or alternatives have been incorporated to substantially lessen any significant adverse effects of the development on the environment, or 2) there are no further feasible mitigation measures or alternatives that would substantially lessen any significant adverse impacts of the development on the environment.

30920

# CALIFORNIA DEPAK IENT OF FISH AND GAME 1-99-063 (REVISED FINDINGS) Page 4

# II. STANDARD CONDITIONS: See Attachment A.

# III. SPECIAL CONDITIONS:

# 1. <u>Final Monitoring Program</u>

- A. **PRIOR TO ISSUANCE OF THE COASTAL DEVELOPMENT PERMIT**, the applicant shall submit for review and written approval of the Executive Director, a final detailed monitoring program designed by a qualified wetland biologist for monitoring of the wetland enhancement site. The monitoring program shall at a minimum include the following:
  - Performance standards that will assure achievement of the restoration goals and objectives set forth in coastal Development Permit Application No. 1-99-063 as summarized in the "Background" section of Finding 1, "Site and Project Description," and shall include but not be limited to the following standards: (a) increases in waterfowl use of the wildlife area from October through April, (b) increases in shorebird feeding and resting use, (c) increases in wading bird use, and (d) increases in riparian vegetation.
  - b. Provisions for monitoring at least the following attributes: (a) increases in waterfowl use of the wildlife area from October through April, (b) increases in shorebird fdeding and resting use, (c) increases in wading bird use, and (d) increases in riparian vegetation at the following frequency: biannually for five years using methods such as: transects, photo plots, and bird counts.
  - c. Provisions for submittal within 30 days of completion of the initial enhancement work of (1) "as built" plans demonstrating that the initial enhancement work has been completed in accordance with the approved enhancement program, and (2) an assessment of the initial biological and ecological status of the "as built" enhancements. The assessment shall include an analysis of the attributes that will be monitored pursuant to the program, with a description of the methods for making that evaluation.
  - d. Provisions to ensure that the mitigation site will be remediated within a year of a determination by the permittee or the Executive Director that monitoring results indicate that the site does not meet the goals, objectives, and performance standards identified in the approved enhancement program and in the approved final monitoring program.
  - e. Provisions for monitoring and remediation of the enhancement site in accordance with the approved final enhancement program and the approved final monitoring program for a period of five years.

40720

CALIFORNIA DEPAK IENT OF FISH AND GAME 1-99-063 (REVISED FINDINGS) Page 5

- f. Provisions for submission of annual reports of monitoring results to the Executive Director by a particular date each year for the duration of the required monitoring period, beginning the first year after submission of the "as-built" assessment. Each report shall include copies of all previous reports as appendices. Each report shall also include a "Performance Evaluation" section where information and results from the monitoring program are used to evaluate the status of the wetland enhancement project in relation to the performance standards.
- g. Provisions for submission of a final monitoring report to the Executive Director at the end of the five-year reporting period. The final report must be prepared in conjunction with a qualified wetlands biologist. The report must evaluate whether the enhancement site conforms with the goals, objectives, and performance standards set forth in the approved final enhancement program. The report must address all of the monitoring data collected over the five-year period.
- B. If the final report indicates that the enhancement project has been unsuccessful, in part, or in whole, based on the approved performance standards, the applicant shall submit a revised or supplemental enhancement program to compensate for those portions of the original program which did not meet the approved performance standards. The revised enhancement program shall be processed as an amendment to this coastal development permit unless the Executive Director determines that no amendment is legally required.
- C. The permittee shall monitor and remediate the wetland enhancement site in accordance with the approved monitoring program. Any proposed changes from the approved monitoring program shall be reported to the Executive Director. No changes to the approved monitoring program shall occur without a Commission amendment to this coastal development permit unless the Executive Director determines no amendment is legally required.

## 2. Construction Responsibilities and Debris Removal

The permittee shall comply with the following construction-related requirements:

- (a) No construction materials, debris, or waste shall be placed or stored where it may be subject to entering waters of Humboldt Bay or existing sloughs;
- (b) Any and all spoil material resulting from construction activities shall be deposited in the approved upland locations including the existing roadways and the top of the Humboldt Bay levee. Disposal material shall not extend beyond the existing prism of the roads or levee.
- (c) Any and all temporary fill associated with the ditch crossing used to access the Humboldt Bay levee shall be removed within 30 days of project completion and the

5920

# CALIFORNIA DEPAR LENT OF FISH AND GAME 1-99-063 (REVISED FINDINGS) Page 6

ditch shall be recontoured and revegetated to its condition that existed prior to the placement of the fill.

(d) All construction debris including old culverts and debris from the six existing slough crossings identified by the applicant in the attached Exhibit No. 3 for removal shall be removed and disposed of in an upland location outside of the coastal zone or at an approved disposal facility.

#### 3. Timing of Construction

To avoid adverse impacts to wildlife during prime breeding season, all project construction shall occur between August 15<sup>th</sup> and November 15<sup>th</sup>. Planting of riparian vegetation shall occur during the rainy season between November and March to optimize planting success.

#### 4. U.S. Army Corps of Engineers Approval

PRIOR TO COMMENCEMENT OF CONSTRUCTION, the permittee shall provide to the Executive Director a copy of a permit issued by the Army Corps of Engineers, or letter of permission, or evidence that no permit or permission is required. The applicant shall inform the Executive Director of any changes to the project required by the Army Corps of Engineers. Such changes shall not be incorporated into the project until the applicant obtains a Commission amendment to this coastal development permit, unless the Executive Director determines that no amendment is legally required.

#### 5. Water Management

The applicant shall manage the hydrology in relation to the road to avoid flooding the adjoining agricultural property.

#### IV. FINDINGS AND DECLARATIONS

The Commission hereby finds and declares:

#### 1. <u>Site & Project Description</u>

The Department of Fish and Game proposes to enhance existing wetlands to provide greater habitat value and diversity for water-associated wildlife at the Mad River Slough Wildlife Area (MRSWA). The proposed site is located at the north end of Humboldt Bay between Old Samoa Road and Humboldt Bay just west of the City of Arcata, Humboldt County. The project site includes the westernmost 265 acres of the 478 acres of fallow pastureland that comprise the Wildlife Area. The site is relatively flat and is bisected by multiple channels of an existing unnamed slough and by two existing gravel roads. With the exception of the roads, buildings, and levees, the entire site is considered seasonal wetland. Five historic structures exist on the site including two unoccupied

6420

residences and three wooden barns. The buildings are not a part of the proposed project and will not be impacted by the project. (see Exhibit Nos. 1 & 2)

Humboldt Bay and the surrounding agricultural lands provide habitat for a variety of wildlife. The MRSWA is habitat for waterfowl, shorebirds, wading birds, songbirds, and raptors. A smaller number of mammals, amphibians and reptiles also inhabit the area. Two species of fish occur in the project vicinity including the tidewater goby, a federally listed endangered species, and coast cutthroat trout, a California species of special concern. The state listed endangered peregrine falcon (recently federally delisted) is also present at the site. Other avian species known to commonly roost and forage at the site include northern harrier, white-tailed kite, and short-eared owl.

The primary plant species at the site are mostly exotic species typical of wet pastures including: velvet grass, annual bluegrass, dock, Canada thistle, and bird's foot trefoil. Bulrush sedge, Pacific silverweed, brass buttons, duckweed, and fat hen, are among the other wetland plants that occur within the sloughs and lower, wetter areas. There are no rare or threatened plants within the project area.

#### Background

The MRSWA site was historically part of the extensive tidal marshes of Humboldt Bay, but was converted to agricultural use following the construction of a levee around this portion of Humboldt Bay in 1886. The site was farmed and grazed until 1987. In 1987, the area was acquired by the California Department of Fish and Game (DFG) with Proposition 19 Bond funds intended specifically for the acquisition of coastal wetlands.

Like many of the historic tidelands around Humboldt Bay, the project area was never fully drained following the construction of the Bay levee and therefore, the vast majority of the project site remains seasonal wetland. Although the land is now a state wildlife area, much of the site has not yet been enhanced to improve wetland habitat values. At the time of acquisition, DFG's common practice was to remove cattle from wildlife area lands because of perceived conflicts with wildlife values. When the area was acquired by DFG in 1987, grazing ceased and consequently, the vegetation grew to be tall and rank, and a dense mat of dead vegetation developed over much of the ground surface. This dense, tall vegetation provides habitat for some wildlife at the site, but precludes use of the area by many water-associated wildlife species. In recent years the presence of water-associated wildlife on the MRSWA has noticeably decreased. Brood counts and duck banding activities in recent years have shown the use of the area by ducks, shorebirds, and gulls to be extremely low. For example, three surveys completed in the Fall of 1999 recorded primarily song birds and raptors on the site. In 1998, the California Waterfowl Association, in coordination with DFG, applied for and received a grant to implement enhancement activities on several north coast Wildlife Areas, including the Mad River Slough Wildlife Area.

The MRSWA Management Plan identifies objectives for enhancing habitat values at the site and states,

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# CALIFORNIA DEPAK\_...IENT OF FISH AND GAME 1-99-063 (REVISED FINDINGS) Page 8

"Factors limiting wildlife use include the lack of vegetative diversity and the duration of time standing water is present. Vegetative diversity can be increased by restoring riparian cover and controlled livestock grazing at relatively low cost. Wetlands can be enhanced by holding run-off water from winter rains in shallow ponds."

To meet these management objectives, the Department of Fish and Game (DFG) proposes to perform activities that would enhance wetland habitat values and has set forth the following project goals:

- Provide shallow fresh or brackish water ponds for waterfowl from October through April;
- Maintain water in all interior sloughs through the waterfowl nesting season
- Provide approximately 200 acres of short grass vegetative type suitable for shorebird feeding and resting use;
- Maintain a mixture of pastures, ponds and sloughs to encourage optimum use by wading birds;
- Develop and maintain suitable nesting and roosting habitat for wading birds;
- Increase the area's raptor prey base;
- Provide nesting and perching trees for raptors; and
- Restore riparian vegetation on selected interior sloughs.

Pursuant to these goals, the project would enhance approximately 260 acres of coastal wetland habitat and increase the biological diversity of the MRSWA. Proposed enhancement activities include: 1) excavating areas of existing slough channels to create 7.5 acres of shallow ponds; 2) installing/upgrading eleven water control structures; 3) establishing 140 acres of short grass habitat adjacent to 85 acres of tall grass habitat; and 4) planting 7 acres of riparian vegetation. Water would remain on the surface of the project area longer each year as a result of constructing shallow ponds and water control facilities. The establishment of short grass pasture and riparian vegetation would increase the number and diversity of species that use the area. The proposed wetland enhancement project is expected to attract shorebirds, wading birds, and waterfowl to the area. As waterfowl and shorebird numbers increase, the prey base for raptors and other predators would also increase. (see Exhibit Nos. 3 & 4)

# Detailed Description of Project Components

(a) <u>Site Preparation</u>

The site would be prepared for enhancement and vegetation management by burning the existing vegetation to eliminate course plant material, rejuvenate plant growth, and expose debris hazards to construction equipment. Burning would be conducted by the California Department of Forestry and Fire Protection (CDF) in the late summer under its Vegetation Management Program. A patch of Himalaya blackberry (*Rubus sp.*) is located in the southeastern section of the project area and is an active white-tailed kite roost. The kite roost would be protected from fire with a 50-foot-wide

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buffer around the berry patch. Concerns about smoke pollution would be coordinated with CDF and the North Coast Unified Air Quality Management District.

## (b) <u>Widening of Slough Channels and Creation of Ponds</u>

Segments of existing slough channels would be widened into six ponds varying in size from 0.3 to 2.2 acres for a total of approximately 7.5 acres. These areas would be excavated to an average depth of two feet with a 5:1 bank slope, typical of the existing slough channels, by means of bulldozer, excavator and/or scraper. Creation of the ponds would result in approximately 21,515 cubic yards of excavated spoil material. (Exhibit No. 5)

## (c) <u>Disposal of Excavated Material</u>

The approximately 21,515 cubic yards of excavated material would be placed in two upland locations on the site including the gravel roads and the Humboldt Bay levee. The existing gravel roads would be raised approximately two feet by placing the excavated material on top of the existing fill prism over 5,503 linear feet of roads. Raising and improving the roads would ensure that they are accessible throughout the year to access water control structures for water management purposes. The roads also act as berms to maintain standing water on the area longer and the roads provide topographic relief for wildlife. (Exhibit No. 7)

The material not used for road improvement would be deposited on the top of the Humboldt Bay levee, raising it an average of 18 inches over a distance of approximately 6,194 feet. The levee would be accessed by temporary ditch crossings adjacent to the levee at each end of the area where excavation spoils would be deposited. The crossings would be constructed over a 36-inch culvert with backfill to the culvert, and would be removed at the completion of the project. The drainage ditch would be restored to its original contour and any bare areas planted with grass. (Exhibit Nos. 8, 9, & 10)

# (d) <u>Water Control Structures</u>

Water levels on the project would be managed by eleven water control structures at various locations within existing sloughs. These structures would consist of earthen berms containing an 18-inch plastic culvert that would allow water to pass through the berm. The up-slough end of each culvert would be filled with a box riser with a flash board water control device that could be raised or lowered to hold or release water. Nine of the eleven water control structures would use existing earthen berms that were previously used for slough crossings. Two new berms for water control structures with a culvert and riser would be placed at previously unfilled locations. The total fill for these new water control structures would cover approximately 880-square-feet of area and require approximately 66 cubic yards of wetland fill. Six other earthen slough crossings would be removed. Elimination of these crossings would remove approximately 2,640- square-feet of wetland fill, or about 196 cubic yards. (Exhibit No. 6)

CALIFORNIA DEPAK \_\_MENT OF FISH AND GAME 1-99-063 (REVISED FINDINGS) Page 10

# (e) <u>Vegetation Management</u>

After burning the site for preparation as described above, the DFG proposes to utilize agricultural practices such as mowing and grazing to manage the approximately 140 acres closest to Old Samoa Road for short grass habitat. Approximately 85 acres of pasture nearest the Bay levee would be allowed to reestablish and would be managed for tall grass habitat. Regrowth of vegetation to 12 inches in height or more would take between four and six months depending on winter rain. The area managed for tall grass habitat would be fenced for protection from grazing. (Exhibit No. 4)

# (f) <u>Riparian Vegetation Enhancement</u>

Approximately seven acres of riparian vegetation, including red alder and Hooker willows, would be planted near Old Samoa Road along the westernmost slough channel in the northwestern corner of the MRSWA. This would establish an area of riparian habitat and draw a diversity of riparian species to the site as the vegetation matures. (Exhibit No. 4)

# 2. <u>Protection of the Wetland Environment</u>

Section 30233 of the Coastal Act states that the diking, filling, or dredging of wetlands shall be permitted only when there is no feasible less environmentally damaging alternative, and only when feasible mitigation measures have been provided to minimize adverse environmental effects. Section 30233 also specifies that diking, filling, or dredging are allowed in wetlands only for limited uses. In addition, Coastal Act Section 30231 provides in applicable part that the biological productivity and the quality of coastal waters be maintained and restored where feasible by protecting natural vegetation buffer areas near riparian habitats and by minimizing alteration of natural streams.

The proposed project involves excavation of approximately 20,500 cubic yards of material that would be placed on upland areas on-site including the existing roads and the top of the Humboldt Bay levee. According to the Commission's staff biologist, the roads have been historically filled for vehicle access across the site and do not currently qualify as wetlands. Approximately 66 cubic yards of fill will be placed within the slough channel for water control structures and an additional 400 cubic yards of temporary fill placed for access to the top of the Humboldt Bay levee for spoil disposal. A total of approximately 196 cubic yards of wetland fill associated with existing road crossings would be removed.

Section 30233(a) provides as follows, in applicable part:

(a) The diking, filling, or dredging of open coastal waters, wetlands, estuaries, and lakes shall be permitted in accordance with other applicable provisions of this division, where there is no feasible less environmentally damaging alternative, and where feasible mitigation measures have been provided to minimize adverse environmental effects, and shall be limited to the following:

(1) New or expanded port, energy, and coastal-dependent industrial facilities,

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including commercial fishing facilities.

- (2) Maintaining existing, or restoring previously dredged, depths in existing navigational channels, turning basins, vessel berthing and mooring areas, and boat launching ramps.
- (3) In wetland areas only, entrance channels for new or expanded boating facilities; and in a degraded wetland, identified by the Department of Fish and Game pursuant to subdivision (b) of Section 30411, for boating facilities if, in conjunction with such boating facilities, a substantial portion of the degraded wetland is restored and maintained as a biologically productive wetland. The size of the wetland area used for boating facilities, including berthing space, turning basins, necessary navigation channels, and any necessary support service facilities, shall not exceed 25 percent of the degraded wetland.
- (4) In open coastal waters, other than wetlands, including streams, estuaries, and lakes, new or expanded boating facilities and the placement of structural pilings for public recreational piers that provide public access and recreational opportunities.
- (5) Incidental public service purposes, including but not limited to, burying cables and pipes or inspection of piers and maintenance of existing intake and outfall lines.
- (6) Mineral extraction, including sand for restoring beaches, except in environmentally sensitive areas.
- (7) <u>Restoration purposes</u>.
- (8) Nature study, aquaculture, or similar resource dependent activities.

(C) In addition to the other provisions of this section, diking, filling, or dredging in existing estuaries and wetlands shall maintain or enhance the functional capacity of the wetland or estuary...

The above policies set forth a number of different limitations on what types of projects may be allowed in coastal wetlands. For analysis purposes, the limitations applicable to the subject project can be grouped into four general categories or tests. These tests are:

- 1. The purpose of the filling, diking, or dredging is for one of the eight uses allowed under Section 30233;
- 2. that feasible mitigation measures have been provided to minimize adverse environmental effects;

110920

# CALIFORNIA DEPAR \_\_\_IENT OF FISH AND GAME 1-99-063 (REVISED FINDINGS) Page 12

- 3. that the project has no feasible less environmentally damaging alternative; and
- 4. that the biological productivity and functional capacity of the habitat shall be maintained and enhanced where feasible.

#### (a) Allowable Use for Dredging and Filling of Coastal Waters

The first test set forth above is that any proposed filling, diking or dredging must be for an allowable purpose as specified under Section 30233 of the Coastal Act. One of the allowable purposes for diking, filling, or dredging, under Section 30233(a)(7) is "restoration purposes." As discussed in detail above, the proposed wetland enhancement project requires dredging of wetlands to create ponds, placement of fill or diking in wetlands for water control structures, and placement of temporary fill to access the top of the levee. The Commission finds wetland enhancement projects, where the sole purpose of the project is to improve wetland habitat values, to constitute "restoration purposes" pursuant to Section 30233(a)(7). For example, the Commission concurred with a consistency determination for a wetland enhancement project proposed by the U.S. Fish and Wildlife Service at the Humboldt Bay National Wildlife Refuge (CD-33-92). This project similarly involved dredging, diking, and filling of wetlands to create and enlarge shallow ponds and sloughs and replace water control structures and was approved as a "restoration purpose" under Section 30233(a)(7). Another similar wetland enhancement project approved by the Commission as a "restoration purpose" under Section 30233(a)(7) involved the excavation of six acres of Doran Park Marsh to create a new tidal pond wildfowl foraging area at the southeast end of Bodega Harbor, Sonoma County (CDP #1-93-04). The proposed project, solely intended to enhance wetland habitat values on the Mad River Slough Wildlife Area, is considered a "restoration purpose" and is allowable under Section 30233.

This finding that the proposed diking, filling, and dredging constitutes "restoration purposes" is based, in part, on the assumption that the proposed project will be successful in increasing wetland habitat values. Should the project be unsuccessful at increasing wetland habitat values, or worse, if the proposed diking, filling, and dredging impacts of the project actually result in long term degradation of the habitat, the proposed diking, filling, and dredging would not actually be for "restoration purposes." To ensure that the project achieves the wetland enhancement objectives for which the project is intended, the Commission attaches Special Condition No. 1. Special Condition No. 1 requires the applicant to submit a final monitoring plan for review and approval by the Executive Director prior to the issuance of the coastal development permit. The monitoring plan is required to outline a method for measuring and documenting the improvements in habitat value and diversity at the site, including wildlife and plant species and abundance, over the course of five years following project completion. Furthermore, Special Condition No. 1 requires the monitoring plan to include provisions for remediation to ensure that the goals and objectives of the wetland enhancement project are met.

The Commission finds that as conditioned, the proposed dredging and filling in coastal wetlands for the proposed wetland enhancement project falls in the category of "restoration purposes," and therefore is an allowable use pursuant to Section 30233(a)(7) of the Coastal Act.

120/20

# CALIFORNIA DEPAK . MENT OF FISH AND GAME 1-99-063 (REVISED FINDINGS) Page 13

#### (b) Adequate Mitigation Measures

The second test set forth by Section 30233 is that adequate mitigation must be provided for adverse environmental impacts. Potential significant adverse impacts often associated with dredging or filling in coastal wetlands include: (1) the coverage of bottom habitat and the loss of wetland surface area and volume, (2) impacts to sensitive and/or riparian vegetation, (3) impacts to fish and wildlife habitat, and (4) water pollution in the form of sedimentation or debris entering coastal waters. Overall, the project would enhance wetland habitat values and would produce generally only beneficial environmental effects. However, the proposed project has been conditioned to ensure that potential significant adverse impacts are minimized.

## i) <u>Wetland Area</u>

A potential significant adverse impact resulting from dredging or filling in wetlands is the coverage of bottom habitat and the loss of wetland surface area and volume. As discussed in the Project Description Finding, the proposed wetland enhancement project would involve the excavation of approximately 21,500 cubic yards of material from the edge of the slough channels to create shallow water ponds. The project also involves the placement of 66 cubic yards of fill in the slough channel to construct two of eleven water control structures and the temporary placement of approximately 400 cubic yards of wetland fill to create ramps to access the Bay levee for spoil disposal.

The project would result in an increase of approximately 7.5 acres of surface water to provide increased habitat for water-associated wildlife including shorebirds and wading birds. The excavated material would be deposited in upland locations and would not result in a loss of wetland surface area or volume. Wetland impacts resulting from fill associated with new water control structures would be adequately compensated for by the removal of six existing road crossings totaling 196 cubic yards of wetland fill for an overall reduction of wetland fill at the site. In addition, the temporary fill associated with accessing the levee would have only a minor short-term effect on wildlife values by removing about .01 acre of wetland habitat for up to four weeks.

To ensure that the project does not result in the loss of wetland surface area or volume, the Commission attaches Special Condition No. 2 which requires all excavated material to be placed on-site in upland locations including the existing roads and the top of the Humboldt Bay levee as proposed by the applicant, rather than in wetland locations. Special Condition No. 2 also requires the removal of the temporary fill associated with accessing the levee following project completion and requires the removal of the six road crossings as proposed by the applicant.

ii) <u>Vegetation</u>

The project would remove some wetland vegetation in the areas to be excavated and converted to shallow water ponds. The DFG Natural Diversity Data Base identifies sensitive species including Humboldt Bay owl's-clover and Point Reyes bird's-beak as being located within the project

130/20

vicinity. However, a recent plant survey conducted at the site did not find either of these sensitive species. An increase in the quantity and diversity of wetland-associated plant species would naturally occur as the area becomes wet for longer periods each year. In addition, seven acres of riparian vegetation consisting primarily of Hooker willow and red alder would be planted and an increase in riparian-associated wildlife species would occur as riparian habitat matures.

#### iii) Fish and Wildlife

Two species of fish occur in the project vicinity including the tidewater goby, a federally listed endangered species, and coast cuthroat trout, a California species of special concern. However, the tidewater goby is an estuarine species and the project site has been closed to estuarine exchange for over 100 years by creation of the levee and tidegates that separate the area from Humboldt Bay. Although coast cuthroat trout inhabit Janes Creek which is connected to the sloughs on the project site, the use of the dead-end sloughs on the site by cuthroat trout has not been documented. Therefore, the proposed project would not adversely effect either of these fish species.

Of the 265 acres on the project site, approximately 85 acres would be managed as tall grass, about 140 acres would be converted to short grass, and 7 acres would be planted with riparian vegetation. The remaining 33 acres includes the slough channels and the existing five structures mentioned in the Site Description finding. Managing vegetation as described above on the MRSWA would change the use of the area by a number of species. Foraging, nesting, and roosting habitat for raptors such as the white-tailed kite, northern harrier and short-eared owl would be reduced by the conversion of 140 acres of tall vegetation to short grass pasture. However, this impact is not considered significant because the 208 acres of tall grass adjacent to the project site within the MRSWA would benefit from the creation of 140 acres of short grass foraging habitat. A variety of other bird species including shorebirds and geese would have increased foraging opportunity as short grass habitats are developed. Although increases in bird species would be the most notable in the area, post-project conditions would also favor increases in mammals, reptiles, amphibians, and invertebrates.

The project would also increase the quantity, depth, and duration of water on the MRSWA and would promote an increase in diversity of wildlife habitat and abundance of water-associated wildlife. Increased annual duration of shallow water, short vegetation and low gradient pond edges would attract shorebirds and foraging Canada geese. Expanses of open water adjacent to tall vegetation would benefit migratory waterfowl by providing feeding and resting habitat, while resident waterfowl would have potential nesting cover and brood water. The increase in open water and marsh habitat is also expected to draw herons, egrets, and American coot. Emergent vegetation within ponds would provide cover for rails and nest structure for red-winged blackbirds and marsh wrens. Predators such as river otter, mink, peregrine falcon, and merlin would benefit indirectly by an increase in food sources.

While the intended purpose of the proposed project is to enhance habitat values of the existing wetlands, the project would result in short-term impacts to existing wetland vegetation and seasonal

14 20

wetland habitat. The project involves excavating approximately 20,500 cubic yards of material from the edge of the slough channel to create 7.5 acres of shallow ponds. The excavation would temporarily eliminate some wetland vegetation and seasonal wetland habitat from the areas to be excavated. However, if the project achieves its enhancement goals, wetland habitat values would be greatly expanded and the short-term impacts of the excavation would be fully mitigated.

To ensure that the project achieves the wetland enhancement objectives for which the project is intended and thereby mitigates for the short term loss of wetland habitat resulting from the proposed excavation work, the Commission attaches Special Condition No. 1. Special Condition No. 1 requires the applicant to submit a final monitoring plan for review and approval by the Executive Director prior to the issuance of the coastal development permit. The monitoring plan is required to outline a method for measuring and documenting the improvements in habitat value and diversity at the site, including wildlife and plant species and abundance, over the course of five years following project completion. Furthermore, Special Condition No. 1 requires the monitoring plan to include provisions for remediation to ensure that the goals and objectives of the wetland enhancement project are met.

In addition, to ensure that project construction activities do not interfere with the breeding season for some species present at the site, the Commission attaches Special Condition No. 3 to limit construction activities to occur only between August 15<sup>th</sup> and November 15<sup>th</sup> as proposed by the Department of Fish and Game. The riparian vegetation planting is required to occur during the rainy season to optimize planting success.

iv) Water Quality

Potential adverse impacts to coastal waters could occur in the form of sedimentation or debris from project excavation and filling being allowed to enter coastal waters. To ensure that adverse impacts to water quality do not occur, the Commission attaches Special Condition No. 2. Special Condition No. 2 requires that no construction materials, debris, or waste be placed or stored where it could be subject to entering the waters of Humboldt Bay or the existing unnamed slough. In addition, Special Condition No. 2 requires all spoil material to be deposited in approved upland locations including the existing roads and the Humboldt Bay levee.

The Commission finds that the proposed wetland enhancement project is a permitted use under Section 30233 of the Coastal Act, and that as conditioned, all potential adverse impacts have been minimized to the maximum extent feasible.

## (c) Alternatives Analysis

The third test set forth by Section 30233 is that the proposed dredge or fill project must have no feasible less environmentally damaging alternative. In this case, the Commission has considered the various alternatives presented by DFG and determines that there is no feasible less environmentally damaging alternative to the project as conditioned by Special Conditions No. 1-4. A total of four possible alternatives to the proposed project have been identified including: (1)

15420

# CALIFORNIA DEPAK ...MENT OF FISH AND GAME 1-99-063 (REVISED FINDINGS) Page 16

restoring tidal action, (2) sealing existing tidegates, (3) creating ponds above grade, and (5) the no project alternative.

#### Breaching the Humboldt Bay Dike

As discussed previously, the subject site, and much of the bottomlands surrounding Humboldt Bay, were cut off from tidal action over 100 years ago by the construction of levees to drain the land for agricultural uses. Breaching the levees would restore tidal action to the area and would allow for the reestablishment of salt marsh habitat. While this alternative would more effectively restore historic environmental conditions at the site, breaching the levee would also flood adjacent private lands and public roads. New levees would need to be constructed to protect surrounding areas and contain the tidal action to the subject site. The construction of new levees would require extensive wetland fill and would be extremely costly. Therefore, breaching existing levees to restore tidal action is not a feasible less environmentally damaging alternative.

#### Sealing the Tide Gates

A primary method of restoring and enhancing wetlands is to increase the water surface and holding capacity of the land. Sealing the existing tidegates at the subject site to prevent water from draining to Humboldt Bay would keep standing water on the site longer and would meet that objective of the proposed project. However, without the ability to manage water levels at the relatively flat site, rising water would eventually flood adjacent property owners and public roads. Similar to the option discussed above, new levees would need to be constructed to contain water on the MRSWA and prevent flooding of adjacent lands and would require costly wetland fill. Therefore, sealing the tidegates to hold water on the site is not a feasible less environmentally damaging feasible alternative.

#### Construction of New Dikes to Create Ponds Above Grade

As noted above, restoring and enhancing wetlands at the MRSWA requires increasing the water surface and holding capacity of the land. One method of accomplishing this would be to construct new levees on the site that would act as berms to hold water for longer periods of time. However, this alternative would also require extensive placement of wetland fill. The proposed project actually results in a reduction of wetland fill. Therefore, constructing new levees to create ponds above grade is not a less environmentally damaging feasible alternative.

#### No Project

The "no project" alternative would leave the MRSWA in its current condition with tall, rank vegetation and limited areas of standing water throughout the year. The "no project" alternative would eliminate the opportunity for increased habitat diversity and increased species abundance at the Wildlife Area. Therefore, the no project alternative is not a less environmentally damaging feasible alternative as it would not accomplish the project objectives of enhancing wetland habitat values at the MRSWA.

16 20

# CALIFORNIA DEPAR ... MENT OF FISH AND GAME 1-99-063 (REVISED FINDINGS) Page 17

### Conclusion

Based on the alternatives analysis above, the Commission concludes that the proposed project, to excavate slough channels to create shallow ponds below grade, is the least environmentally damaging feasible alternative for enhancing wetland habitat values at the site and is consistent with Section 30233.

# 3. Public Access

Section 30212 of the Coastal Act requires that access from the nearest public roadway to the shoreline be provided in new development projects except where it is inconsistent with public safety, military security, or protection of fragile coastal resources, or adequate access exists nearby. Section 30211 requires that development not interfere with the public's right to access gained by use or legislative authorization. In applying Sections 30211 and 30212, the Commission is also limited by the need to show that any denial of a permit application based on these sections, or any decision to grant a permit subject to special conditions requiring public access, is necessary to avoid or offset a project's adverse impact on existing or potential access.

The entire Mad River Slough Wildlife Area is open to the public with the exception of the Bay levee and the five structures on the site. The MRSWA is open to the public year-round for wildlife-related activities such as bird watching, kayaking, hunting (pursuant to applicable seasons and regulations), research, and education. Activities that are not compatible with wildlife, such as off-road vehicle riding, are not allowed at the site. The proposed project does not involve any changes or additional restrictions to existing public access including during project construction. In fact, public use of the site is expected to increase after the project as a result of increased wildlife abundance and diversity. Sufficient parking exists to accommodate the current level of public use as well as the anticipated increase in use following project completion.

Therefore, the Commission finds that the proposed project would not have an adverse effect on public access, and that the project as proposed without new public access is consistent with the requirements of Coastal Act Sections 30210, 30211, and 30212.

#### 4. Agricultural Resources

The Coastal Act sets forth policies that relate to the protection of agricultural land and limit the conversion of agricultural lands to non-agricultural uses. Sections 30241 and 30242 address methods to be undertaken to maintain the maximum amount of prime agricultural land in production and to minimize conflicts between agricultural and urban land uses.

Prior to the DFG's acquisition of the site in 1987, the site was a ranch used for agricultural purposes, mainly as grazing land. In addition, according to information submitted by the DFG, based on Soils of Western Humboldt County, California (McLaughlin and Harradine, 1965) soils are graded 1 through 6. Soils in the 1 and 2 grades are considered very good soils and are identified as prime agricultural soils. Soils in grades 5 and 6 are considered poor agricultural soils. The soils

120/20

on the MRSWA (Bayside 2 soil series) have a grade of 4. They are heavy bay formed clays with extremely poor drainage and are identified as having some of the poorest drainage in the county. These soils are therefore, not prime agricultural soils. The DFG ceased using the property for agricultural practices sometime after acquiring the property. The acquisition of the property by the DFG did not require a coastal development permit.

According to the Humboldt County certified LCP, the subject site is planned and zoned Agriculture Exclusive. However, the site is within the Commission's retained jurisdiction and therefore, the standard of review is the Coastal Act rather than the LCP. Although the site is managed for fish and wildlife habitat rather than for agriculture, the proposed project does not constitute a conversion of agricultural land. The DFG plans to reintroduce grazing on a portion of the site as a means of managing short-grass habitat on approximately 140 acres. Furthermore, the restoration of wetland habitat values over other portions of the site would be compatible with agricultural use of adjacent lands.

As noted previously, the applicant proposes to raise two existing gravel roads approximately two feet by placing the excavated material on top of the existing fill prism over 5,503 linear feet of roadway. Raising and improving the roads would ensure that they are accessible throughout the year to access water control structures for water management purposes. The roads also act as berms to maintain standing water on the area longer and the roads provide topographic relief for wildlife. To the south of the project site is a 40-acre private inholding currently leased for cattle grazing. The proposed project could result in potential adverse impacts to the adjacent agricultural property if the management of the hydrology in relation to the roads at the project site resulted in flooding of the adjacent private agricultural property. To ensure that the proposed project is compatible with surrounding agricultural uses and does not adversely impact the adjacent agricultural land, the Commission attaches Special Condition No. 5. This condition requires the Department of Fish and Game to manage the hydrology in relation to the existing roads in a manner that does not result in flooding the adjoining agricultural property.

Therefore, the Commission finds that the project as conditioned, will assure that the maximum amount of prime agricultural land is maintained in production and does not constitute a conversion of agricultural lands consistent with Sections 30241 and 30242 of the Coastal Act.

# 5. U.S. Army Corps of Engineers Approval

The project requires review and approval by the U.S. Army Corps of Engineers. Pursuant to the Federal Coastal Zone Management Act, any permit issued by a federal agency for activities that affect the coastal zone must be consistent with the coastal zone management program for that state. Under agreements between the Coastal Commission and the U.S. Army Corps of Engineers, the Corps will not issue a permit until the Coastal Commission approves a federal consistency certification for the project or approves a permit. To ensure that the project ultimately approved by the Corps is the same as the project authorized herein, the Commission attaches Special Condition No. 4 which requires the permittee to submit to the Executive Director evidence of U.S. Army Corps of Engineers approval of the project prior to the commencement of work.

12980

CALIFORNIA DEPAK ... MENT OF FISH AND GAME 1-99-063 (REVISED FINDINGS) Page 19

# 6. <u>California Environmental Quality Act (CEQA)</u>

Section 13096 of the Commission's administrative regulations requires Commission approval of Coastal Development Permit applications to be supported by a finding showing that the application, as modified by any conditions of approval, is consistent with any applicable requirements of the California Environmental Quality Act (CEQA). Section 21080.5(d)(2)(A) of CEQA prohibits a proposed development from being approved if there are feasible alternatives or feasible mitigation measures available which would substantially lessen any significant adverse effect which the activity may have on the environment.

As discussed above, the proposed wetland enhancement project, as conditioned, has been found to be consistent with the policies of the Coastal Act. As specifically discussed in these above findings which are hereby incorporated by reference, mitigation measures which would minimize or avoid all significant adverse environmental impact have been required. These mitigation measures require that : (1) a final monitoring plan be submitted for review and approval by the Executive Director to ensure that the enhancement project goals and objectives are met, (2) no spoil material or other construction related debris be placed in coastal waters or wetlands and that all temporary fill and existing road crossing fill be removed, (3) construction activities only occur between August 15<sup>th</sup> and November 15<sup>th</sup> to prevent conflicts with the primary breeding season at the site, and (4) the applicant obtain appropriate project approval from the U.S. Army Corps of Engineers, and (5) that the applicant manage the hydrology in relation to the road to avoid flooding the adjoining agricultural property. As conditioned, there are no feasible alternatives or feasible mitigation measures available, beyond those required, which would substantially lessen any significant adverse impact that the activity would have on the environment.

Therefore, the Commission finds that the proposed project as conditioned to mitigate the identified potential impacts, can be found consistent with the requirements of the Coastal Act to conform to CEQA.

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# CALIFORNIA DEPAK / IENT OF FISH AND GAME 1-99-063 (REVISED FINDINGS)

## ATTACHMENT A

#### Standard Conditions:

- 1. <u>Notice of Receipt and Acknowledgment</u>. The permit is not valid and development shall not commence until a copy of the permit, signed by the permittee or authorized agent, acknowledging receipt of the permit and acceptance of the terms and conditions, is returned to the Commission office.
- 2. <u>Expiration</u>. If development has not commenced, the permit will expire two years from the date on which the Commission voted on the application. Development shall be pursued in a diligent manner and completed in a reasonable period of time. Application for extension of the permit must be made prior to the expiration date.
- 3. <u>Interpretation</u>. Any questions of intent of interpretation of any condition will be resolved by the Executive Director or the Commission.
- 4. <u>Assignment</u>. The permit may be assigned to any qualified person, provided assignee files with the Commission an affidavit accepting all terms and conditions of the permit.
- 5. <u>Terms and Conditions Run with the Land</u>. These terms and conditions shall be perpetual, and it is the intention of the Commission and the permittee to bind all future owners and possessors of the subject property to the terms and conditions.

20920