

**MEETING MINUTES
RESTORATION ADVISORY BOARD
NAVAL WEAPONS STATION SEAL BEACH DETACHMENT, CONCORD
CONCORD, CALIFORNIA
APRIL 6, 2005**

These minutes reflect general issues raised, agreements reached, and action items identified at the Restoration Advisory Board (RAB) meeting for Naval Weapons Station (NWS) Seal Beach Detachment, (SBD) Concord, California. The meeting was held from 6:30 p.m. to 8:30 p.m. on April 6, 2005, at the Concord Police Department Community Room in Concord, California. Agreements and action items are described by topic under Sections I through V and are summarized in Section VI. A list of participants and their affiliations is included as Attachment A, and the meeting agenda is included as Attachment B.

I. WELCOME, INTRODUCTIONS, PUBLIC COMMENT, AND AGENDA APPROVAL

Welcome and Introductions

The RAB Community Co-chair, Mary Lou Williams (Concord resident), called the RAB meeting to order and initiated a round of introductions for attendees.

Public Comments

Ms. Williams opened the floor to public comments. No public comments were offered.

May 2005 RAB Agenda Approval

Margaret Wallerstein, PhD (Navy RAB co-chair), reviewed the proposed agenda for the RAB meeting on May 4, 2005, which will take place at the Concord Police Department Community Meeting Room in Concord, California. The Agency for Toxic Substances and Disease Registry (ATSDR) plans to provide a presentation on the public health assessment for NWS SBD Concord. Libby Vianu (ATSDR) said that a fact sheet will be delivered to the general mailing list for the Concord community to announce that the public health assessment for NWS SBD Concord will be available for review. The report will be sent to the RAB, as well as members of the public who completed the public health assessment survey for ATSDR.

Ms. Vianu said that the ATSDR health consult for arsenic was sent to the RAB and will be available for the Navy and agencies electronically. Anyone interested in receiving either a hard copy or an electronic version of the ATSDR health consultation on arsenic should contact Ms. Vianu.

Igor Skaredoff (Martinez resident) asked if the Navy plans to provide an update on Site 1 during the May 2005 RAB meeting. Steve Tyahla (Navy) responded that he will provide the RAB an update during the Navy Remedial Project Managers (RPM) portion of the May 2005 meeting once he discusses Site 1 with the regulatory agencies.

Mr. Skaredoff requested an update on the samples for analysis of arsenic that the Navy plans to collect at Site 22. Mr. Tyahla said that the sampling and analysis plan (SAP) for Site 22 will be available for review on May 9, 2005.

Ms. Wallerstein asked the RAB to approve the May 2005 agenda. The RAB approved the agenda.

Action Item

1. Mr. Tyahla will provide information on Site 1 during the Navy RPM update at the May 2005 RAB meeting.

II. MARCH RAB MEETING MINUTES APPROVAL

Ms. Wallerstein asked the RAB if there were any comments on the meeting minutes for March 9, 2005. No comments were offered. Ms. Wallerstein asked the RAB to approve the March 2005 RAB meeting minutes. The March 2005 RAB meeting minutes were approved.

Action Item

2. The Navy will distribute the final RAB meeting minutes for March 9, 2005.

III. COMMITTEE REPORTS AND ANNOUNCEMENTS

Ms. Williams announced that Chris Boyer (Martinez resident) resigned from the RAB because of work load conflicts. Ms. Williams said that she visited the Seal Beach wildlife refuge during March.

Ms. Williams opened the floor for RAB announcements. Jessica Hamburger (Contra Costa Resource Conservation District [CCRCD]) announced that the CCRCD collected samples at Mount Diablo/Seal Creek. CCRCD will hold a kickoff meeting in May 2005 on its watershed project and invited the Navy and agencies to attend. Once the kickoff meeting is held, CCRCD will sponsor a series of community meetings to discuss watershed management. Rich Walkling (CCRCD) said that the district is in phase I of the watershed management project. Phase II of the process will include developing an assessment of the watershed management plan. Mr. Walkling continued that CCRCD went to NWS SBD Concord on April 2, 2005, to work at Mount Diablo/Seal Creek and the surrounding riparian areas.

Lisa Anich (Friends of Mount Diablo Creek) said that at the April 2005 Friends of Mount Diablo Creek meeting Dean McLeod (Bay Point resident) gave a presentation on the change in the direction of the channel for Mount Diablo/Seal Creek. Mr. McLeod is concerned that Indian burial grounds were covered and were not characterized as a sensitive area when the creek's path was altered. Phillip Ramsey (U.S. Environmental Protection Agency [EPA]) said that Mr. McLeod provided EPA a set of maps that show the historical flow of Mount Diablo/Seal Creek. Mr. Ramsey said that he would be happy to discuss this issue with Mr. McLeod. Mr. Ramsey also said that EPA provided the Navy with comments on the Finding of Suitability to Lease (FOSL), which captured community concerns. Mr. Skaredoff asked if documentation is available that would indicate whether the area where the Indian burial ground is located was surveyed. Ms. Wallerstein replied that those surveys were located in the ICRMP.

Mario Menesini (Walnut Creek resident) announced that a presentation and discussion on the political or scientific nature of the total maximum daily load (TMDL) for mercury will be held at an Environmental Alliance meeting on April 18, 2005.

IV. REMEDIAL PROJECT MANAGERS (RPM) UPDATE

Navy Update

Mr. Tyahla reviewed the Navy RPM update (Attachment C). Mr. Tyahla said that the RPMs held a conference call on March 21, 2005, to discuss updating the Site Management Plan (SMP) for the Installation Restoration (IR) sites at NWS SBD Concord. The RPMs discussed the changes to the SMP and tried resolve agency concerns before the Navy submits its formal extension/changes request to the U.S. EPA.

Mr. Tyahla also said that the Site 30 Engineering Evaluation/Cost Analysis (EE/CA) was released for public comment. The Site 30 EE/CA will be available for public comment from April 5, 2005, through May 5, 2005. Once comments are received on the Site 30 EE/CA, the Navy will develop an action memorandum.

Gregory Glaser (Danville resident) requested an update on the SMP schedule for Sites 2, 9, and 11. Mr. Ramsey replied that EPA has discussed the schedule with the Navy. Mr. Tyahla said that the Navy is working out the scheduling and funding issues before requested changes to the SMP are released for agency review.

Mr. Glaser asked if the groundwater samples that are being collected at Site 1 will affect the work at Sites 2, 9, and 11. Mr. Glaser would also like to know if the Navy is collecting any soil samples to test for metals at Site 1. Mr. Tyahla said that an RPM meeting has been scheduled to discuss the draft final SAP for the data gaps study at Sites 2, 9, and 11. Mr. Ramsey said that the RPMs had fast-tracked work at Site 1 relative to the cap; now, all of the other sites will need to catch up in the cleanup process.

Mr. Skaredoff asked about the focus of the treatability study for the Litigation Area. Mr. Tyahla responded that the purpose is to identify whether water dredged from the site during a potential future remedial action would require treatment to meet discharge criteria for Suisun Bay or other water disposal methods. Mr. Skaredoff asked if EPA is concerned with the extension of the treatability study for the Litigation Area. Mr. Tyahla noted that all of the Navy's extension requests are highlighted in the soon to be issued request for changes to the SMP. Mr. Ramsey added that EPA will consider requests for extension to the schedules, if they can be supported.

Mr. Skaredoff said that he read guidance developed by the Department of Toxic Substances Control (DTSC) on vapor intrusion in indoor air. Mr. Skaredoff asked the Navy if DTSC guidance on indoor air vapor intrusion is used. Mr. Ramsey noted that EPA has its own guidance on how to address indoor air. EPA has asked the Navy to reassess indoor air quality at NWS SBD Concord. Mr. Tyahla said that the Navy uses agency guidance when dealing with indoor air quality. The Navy's goal is to clean up so that sites can meet residential standards, wherever practicable.

Mr. Skaredoff also said that the Site 22 and basewide fact sheets that were issued in February 2005 are helpful for his community outreach efforts and thanked the Navy for issuing them.

EPA Update

Mr. Ramsey summarized all of the activities and correspondence EPA provided during March 2005.

Mr. Ramsey said that EPA forwarded comments to the Navy on the draft final Site 1 landfill remedial design and post-construction plan. EPA has been concerned with the hydraulic conductivity of the

landfill cap and the location of the waste in the Site 1 Landfill; however, these issues are being effectively resolved. EPA is working with the Navy on locating borrow material for the landfill.

Mr. Ramsey continued that EPA attended the March 17, 2005, RPM meeting, where Site 13 was discussed. The RPMs agreed on the well locations at Site 13, so the Navy can move forward with the SAP. Mr. Ramsey also said that two new Navy RPMs were introduced at the meeting on March 17, 2005. Mr. Tyahla said that the two new Navy RPMs (Lik-See Chung and Ernie Galang) will replace Tony Tactay (Navy), who was assigned to another project.

Mr. Ramsey said that EPA met with the Navy to discuss the Site 17 Fork Lift Storage Site and make final adjustments before the Site 17 record of decision (ROD) is signed. The Site 17 ROD states that no further action is required.

Mr. Ramsey said that EPA is reviewing the Litigation Area treatability study SAP and the Site 30 EE/CA. EPA is not anticipating providing the Navy with major comments on either of these documents.

V. OVERVIEW OF THE INTEGRATED NATURAL RESOURCE MANAGEMENT PLAN (INRMP) PRESENTATION

Ms. Wallerstein provided an overview of the INRMP for NWS SBD Concord. The presentation is included as Attachment D.

After Ms. Wallerstein's presentation, questions were taken from the RAB. Ms. Anich asked if the cattle and the Tule elk share areas at the base. Ms. Wallerstein said that they occasionally share the same area, but do not appear to interact.

Frank Gray (California Department of Fish and Game [CDFG]) asked if the Navy plans to expand the fencing around the Hill Top Pond to protect the habitat from the cattle and Tule elk. Ms. Wallerstein said that the Navy is considering a fence, but will need to determine whether it would affect the Tule elk's water supply. Mr. Skaredoff asked if the Hill Top Pond is considered a vernal pool. Ms. Anich noted that there are some vernal pools in the area.

Mr. Menesini asked if the Navy has investigated the islands off of NWS SBD Concord. Ms. Wallerstein responded that the Navy has not done much at the islands off NWS SBD Concord. Mr. Walkling asked if the Navy has ever conducted military activities on the islands. Mr. Ramsey responded that no military activities have been conducted on the islands. An abandoned duck club is present on Riker Island.

Mr. Gray asked if red-legged frogs were present in Cistern Pond. Ms. Wallerstein confirmed that red-legged frogs live in Cistern Pond.

Mr. Gray asked about responsibility for maintaining the INRMP once the base is closed and transferred. Ms. Wallerstein said that the new owners of the base will be responsible for natural resources.

VI. NEXT MEETING AND ACTION ITEMS

The next RAB meeting will occur from 6:30 to 8:30 p.m. on Wednesday, May 4, 2005, at the Concord Police Department Community Meeting Room in Concord, California.

The following action items and agreements were generated during the RAB meeting on April 6, 2005:

#	Action Item	Target Date for Completion	Completion Date (or Status)
1	Mr. Tyahla will provide a Site 1 information during the Navy RPM update during the May 2005 RAB meeting.	5/4/05	
2	The Navy will distribute the final March 9, 2005, RAB meeting minutes.	5/4/05	

ATTACHMENT A

**ATTENDEES AND AFFILIATIONS
RESTORATION ADVISORY BOARD MEETING
NAVAL WEAPONS STATION SEAL BEACH DETACHMENT CONCORD, CALIFORNIA**

APRIL 6, 2005
(One Page)

**ATTENDEES AND AFFILIATIONS
RESTORATION ADVISORY BOARD MEETING
NAVAL WEAPONS STATION SEAL BEACH DETACHMENT CONCORD, CALIFORNIA**

APRIL 6, 2005

<u>Name</u>	<u>Affiliation</u>	<u>Telephone</u>
Wayne Akyama	Shaw Environmental	(925) 288-2003
Lisa Anich*	Friends of Mount Diablo Creek	(925) 689-2642
Sherilyn Braga	Saint Mary's College Student	
Harry Byrne	Concord Resident	(925) 686-4815
Gregory Glaser*	Danville Resident	(925) 363-5570
Frank Gray	CDFG	(916) 327-9961
Jessica Hamburger*	CCRCD	(925) 672-6522 X118
Carolyn Hunter	TtEMI	(415) 222-8297
Mario Menesini*	Walnut Creek Resident	(925) 935-1168
Phillip Ramsey	EPA	(415) 972-3006
Cindi Rose	TtEMI	(415) 222-8286
Igor Skaredoff*	Martinez Resident	(925) 229-1371
Steve Tyahla	IPT West	(650) 746-7451
Libby Vianu	ATSDR	(415) 947-4319
Rich Walkling	CCRCD/NHI	(415) 693-3000
Margaret Wallerstein	Navy RAB Co-chair	(562) 626-7838
Mary Lou Williams*	RAB Community Co-chair	(925) 685-1415

Notes:

ATSDR	Agency for Toxic Substances and Disease Registry
CCRCD	Contra Costa County Resource Conservation District
CDFD	California Department of Fish and Game
EPA	U.S. Environmental Protection Agency
IPT West	U.S. Navy Integrated Project Team West
RAB	Restoration Advisory Board
TtEMI	Tetra Tech EM Inc.
*	Community RAB Member

ATTACHMENT B

**AGENDA
RESTORATION ADVISORY BOARD MEETING
NAVAL WEAPONS STATION SEAL BEACH DETACHMENT CONCORD, CALIFORNIA**

APRIL 6, 2005
(One Page)

AGENDA

NAVAL WEAPONS STATION SEAL BEACH DETACHMENT CONCORD RESTORATION ADVISORY BOARD MEETING

Wednesday, April 6, 2005

6:30 p.m. – 8:30 p.m.

Concord Police Department Community Room
1350 Galindo Street
Concord, CA 94520

- 6:30 – 6:40 Call to Order
- Welcome
 - Introductions
 - Public Comments
 - May Agenda Approval
- Lead: Community Co-chair
- 6:40 – 6:50 Approval of March 9, 2005 Meeting Minutes
Review Unresolved Business
Lead: Navy Co-chair
- 6:50 – 7:30 Committee Reports/Announcements
- RAB Announcements, Reports or other business
 - Remedial Project Managers' Update (Navy/EPA/DTSC/RWQCB)
- 7:30 – 7:40 Break
- 7:40 – 8:30 Integrated Natural Resources Management Plan
- 8:30 Adjourn

ATTACHMENT C

**NAVY REMEDIAL PROJECT MANAGER'S UPDATE
RESTORATION ADVISORY BOARD MEETING
NAVAL WEAPONS STATION SEAL BEACH DETACHMENT CONCORD, CALIFORNIA**

APRIL 6, 2005
(2 Pages)



***Navy RPM Update for 6 April 2005 meeting of
Naval Weapons Station Seal Beach, Detachment Concord
Restoration Advisory Board (RAB)***

Prepared by Steve Tyahla, Navy Lead Remedial Project Manager

- Summary of Navy Remedial Project Manager (RPM) Activities since the last RAB Meeting held on Wednesday, 9 March 2005.
 - **14 March-** The Navy issued a letter to the U.S. Environmental Protection Agency (EPA) submitting the “*Draft Final Data Gaps Sampling and Analysis Plan (Field Sampling Plan/Quality Assurance Project Plan), Tidal Area Sites 2, 9, and 11, Naval Weapons Station Seal Beach, Detachment Concord.*” [The draft version of this document was provided to the agencies and RAB 13 July 2004 with comments received by 13 September 2004. The RAB was briefed on the draft plan at the August 2004 monthly RAB meeting. The Navy and Agencies are meeting about this draft final plan on 12 April at the request of EPA to discuss some comments they still have regarding this plan. Our hope is that at this meeting we will resolve any “fine-tuning” issues from the Agencies so that we can finalize this plan in order to collect the data and subsequently, complete the RI that’s been lingering for a long time.)

 - **17 March**  - The Navy issued a letter to the EPA submitting the “*Final Sampling and Analysis Plan (Field Sampling Plan/Quality Assurance Project Plan) for Treatability Study at the Litigation Area, Naval Weapons Station Seal Beach, Detachment Concord.*” [This is a “Secondary Document” under the Federal Facility Agreement (FFA), so it only comes out in draft then final versions. The draft version of this plan was issued on 19 November 2004 with comments received by 18 January 2005. The plan was briefed to the RAB during the March 2005 monthly RAB meeting.]

 - **17 March**  - The Navy met with the project managers from the EPA, DTSC, and SFBRWQCB. [This was our regular monthly meeting.]

 - **21 March-** The Navy held a conference call with the project managers from EPA, DTSC, and SFBRWQCB regarding updates to the Site Management Plan (SMP). [The SMP is our cleanup schedule under the FFA with the EPA. Soon the Navy will issue a formal extension request letter to the EPA with a proposed revised SMP.]

 - **25 March-** The Navy issued a letter to the EPA submitting the “*Final Engineering Evaluation/Cost Analysis Non-Time Critical Removal Action for Taylor Boulevard Bridge (Site 30), Naval Weapons Station Seal Beach, Detachment Concord.*” [This is also a “Secondary Document” under the FFA, so it only comes out in draft then final versions. The draft version of this EE/CA was issued on 26 November 2004 with comments received by 25 January 2005. The plan was briefed to the RAB during the 5 January 2005 RAB



meeting. It is noteworthy that, per regulation, the EE/CA (in its final form) is subject to a 30-day public comment period. The public notice of availability of the EE/CA is due to be published imminently.]

- **31 March-** The Navy issued a letter to the EPA providing responses to comments received on the “*Draft Final Sampling and Analysis Plan (Field Sampling Plan/Quality Assurance Project Plan) Additional Groundwater Investigation at Tidal Area Landfill Site 1, Naval Weapons Station Seal Beach, Detachment Concord*” dated 21 December 2004; and providing an Addendum to that draft final SAP. [While the EPA did not dispute the draft final SAP under the FFA, the Navy wished to address comments it received on the draft final. The contents of this letter accomplished that and finalize the SAP.]
- **1 April-** The Navy issued a letter to the EPA providing the Final Meeting Minutes of the 15 February 2005 monthly Remedial Project Managers’ meeting. [These minutes are for the regular monthly project managers’ meeting that is held between the Navy, EPA, DTSC (CA Dept. of Toxic Substances), and SFBRWQCB (CA San Francisco Bay Region Water Quality Control Board.)
- **1 April-** The Navy issued a letter to the EPA officially providing the results of arsenic soil testing at Site 27 in order to finalize the feasibility study for that site. [Copies of the letter were distributed to the RAB. Arsenic in soil there was detected at levels consistent with background.]

RAB Meeting Update April 6th 2005

Laurent Meillier RWQCB

I Meetings Attended

■ March 17 Site wide RPM Meeting

The state of disrepair of the Tidal gate at Otter Slough was discussed. Hydrologic conditions at adjacent sites have drastically changed due to permanent inundation. Water Board staff remained concerned that these conditions might mobilize contaminants into Suisun Bay waters to impact beneficial uses and ecological health.

Water Board highlighted their concerns regarding the SWMU sites. More precisely, Water Board staff is concerned with biotic exposure to VOC contamination by groundwater interception at Mt. Diablo/ Seal Creek. RWQCB recommends that the Navy characterize groundwater quality in the deep aquifer. The Water Board further indicated that priority metals and associated wastes products potentially disposed in the wastes oil tank be analyzed in groundwater at the site. Finally, possible adversarial groundwater quality degradation due to TPH at SWMU site 2 and adjacent monitoring points needs to be further investigated to determine if beneficial uses of this resource has not been impacted.

Water Board staff and USEPA discussed the locations of 4 new additional monitoring wells down and cross gradient of Site 13 to be analyzed for perchlorate. Water Board staff recommended to overlay on the map the abandoned runway and Site 24 B in relationship to the proposed monitoring locations. Water Board staff recommended sampling water emanating from the Spring USEPA had sampled in December 2004. The basis for this recommendation is twofold: the water daylighting at this location might originate from a perched/ confined aquifer which could not be the representative aquifer screened at proposed location MW013. Conversely, the spring location represents a direct pathway of exposure to biota in the direct vicinity of its above surface flow.

■ March 17 UST Sites RPM Meeting

Water Board staff understands the Navy will apply annually for temporary closure of UST site B-522.

The Navy provided an update to the fieldwork performed at the Christenbury pipeline site. No extensive contamination was detected in soils and groundwater at the site

except for the general vicinity of AST site T2 where detections in soils were made above ESLs.

The geophysical survey to be deployed at the Port Chicago Main St. Gas Station site was presented. Water Board requested a copy of that report for review.

The Navy informed the Water Board that funding was unlocked for former TPH site at RASS 3 (Litigation Area).

Water Board recommended the submittal of a non-DSMOA UST sites schedule. Dr. Wallerstein requested the submittal from Water Board staff of any comments generated on these sites prior to Meillier's tenure. The RWQCB stated that these comments might be further modified for opened sites due to changes in regulatory cleanup criteria and the understanding of water quality impacts.

■ **March 21 Site Management Plan Meeting**

Water Board staff is concerned that the Tidal Area Landfill (TAL) Remedial Action Workplan submittal is delayed and out of synchronization with the reviewed TAL 95% pre-final remedial construction specifications.

Water Board staff has recommended their management to sign the Site 17 Record of Decision. The document appropriately acknowledges the San Francisco Bay Basin Plan as an applicable and relevant document. Furthermore, the mentioning of the UST sites and their current regulatory status was made to the document. Finally, the Navy is planning to further investigate potential petroleum impacts to soils and groundwater in the vicinity of the former sewage line and the septic tank.

II Documents Reviewed/ Correspondence output

- Comments on the Feasibility Study SWMU Sites 2, 5, 7.

ATTACHMENT D

**INTEGRATED NATURAL RESOURCES MANAGEMENT PLAN PRESENTION
RESTORATION ADVISORY BOARD MEETING
NAVAL WEAPONS STATION SEAL BEACH DETACHMENT CONCORD, CALIFORNIA**

APRIL 6, 2004
(17 Pages)

Integrated Natural Resources Management Plan

Naval Weapons Station Seal Beach Detachment Concord

Presented by Margaret Wallerstein, Ph.D.

6 April 2005

1

INRMP Presentation

- Regulatory Background
- Features of INRMPs
- Relationship to the IR Program
- Det Concord INRMP Management Areas
- Det Concord Habitats

2

Regulatory Background

- Sikes Act – Introduced in 1949 by Florida Congressman Bob Sikes – Initially applied only to Eglin Field Reservation
- Amended in 1960 to cover all DoD installations
- Amendment provided for appropriation of funds
- Amendment recognized that DoD plays a major role in habitat conservation and protection

3

Sikes Act Improvement Act

- Signed into law by President Clinton in November 1997
- Primary thrust: DoD Installations must develop and implement Integrated Natural Resource Management Plans
- Mandated environmental protection activities
- Applies to all military installations

4

SAIA Features

- INRMPs replaced existing conservation plans with ecosystem management plans
- Requires that INRMPs support the military mission and ensure that there is no net loss of capability to support the military mission

5

Management Plans

- INRMPs must be prepared in cooperation with, and the mutual agreement of, Federal and State, Fish and Wildlife Agencies
- Military must provide for public input to the INRMP
- Ensure that all stakeholders are involved in INRMP development

6

Key Elements of INRMPs

- Natural Resource Management
- Public Access and Use
- Sustainable Public Use
- Natural Resource Law Enforcement
- Habitat Enhancement
- Wetlands Protection
- No net loss of military capability

7

Relationship to IR Program

- INRMP is a source document for Natural Resources information
- Directs Natural Resources Management staff to assist the IR RPM to identify NR impacts from contaminants
- Directs Natural Resources staff to assist the IR RPM to minimize impacts to NR at the installation from IR Program activities

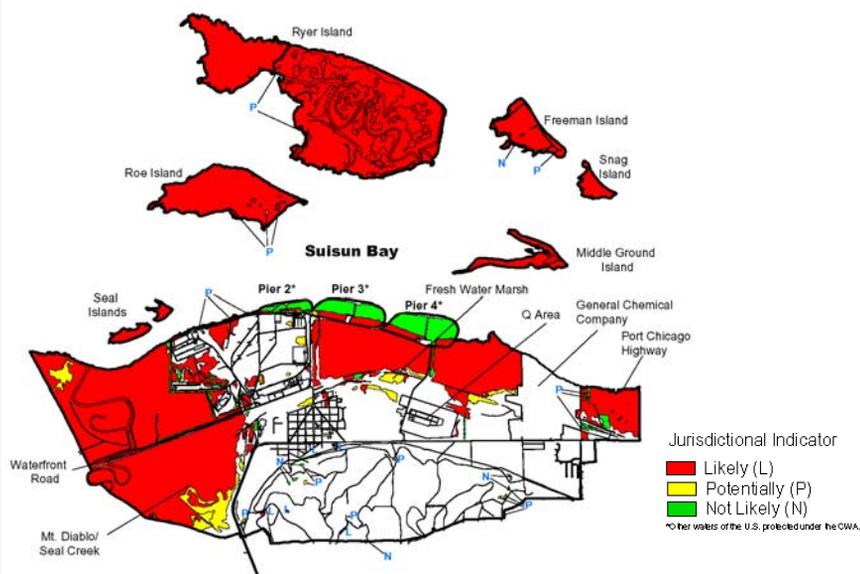
8

Management areas

- Soil management
- Water resources management
- Grazing outlease
- Terrestrial habitat
- Wetlands
- Riparian habitat
- Wildlife management
- Fisheries
- Federal Threatened and Endangered Species
- Pest Management
- Cultural Resources Management
- Outdoor Recreation
- Fire Management

9

Tidal Area Wetlands



10

Management Goals

- Comply with the MOU between Navy and the USFWS
- Protect and enhance wetland resources in the Tidal Area

11

Tidal Area Wetlands



Tidal wetlands.

12

Litigation Area



13

Habitats

- Tidal Wetlands ES and TS – Salt Marsh
Harvest Mouse and Black Rail



14

Tidal Area ES and TS

- Soft Bird's Beak, Delta Tule Pea



15

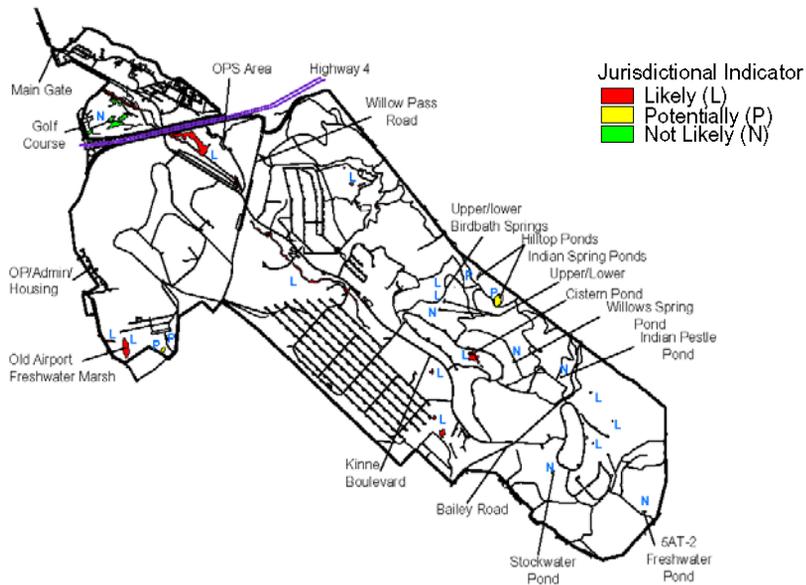
TA Wetland NR Projects

- Invasive species removal – Ice Plant and Fennel



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Inland Area Wetlands



17

Management Goals

- Protect and enhance Inland Area wetlands
- Maintain water quality in aquatic habitats that support sensitive species

18

Inland Area Wetlands

- Cistern Pond and Indian Springs



19

Inland Area Wetlands

- Hilltop Pond



20

Inland Area ES and SOC

- Red legged Frog - Western Pond Turtle



21

Inland Area ES

- Tiger Salamander



22



IA Wetland NR Projects

- Fence water habitats to limit access by cattle
- Enhance vegetation along banks of stockwater ponds
- Remove invasive species

23



Riparian Areas – Mt. Diablo/Seal Creek

- Approximately 5 to 6 miles of Mt. Diablo/Seal Creek traverse the base
- Largest relatively undisturbed Riparian area in Contra Costa County

24

Mt. Diablo\Seal Creek



25

Riparian Area NR Projects

- Plant willow cuttings along Seal Creek
- Remove invasive species
- Remove debris from the creek bed

26

Grassland Areas

- Valley and Foothill Grassland



Valley and foothill grassland occupies approximately 4,815 acres of the Inland Area at Detachment Concord.

27

Management Goal

- Maintain and enhance upland resources and vegetation to benefit water quality, native vegetation and wildlife

28

Grassland Areas

- Tule Elk Herd



Tule elk (*Cervus elaphus nannodes*) inhabit the valley and foothill grasslands of Detachment Concord.

29

Elk Herd

- Herd is owned and managed by Cal F&G
- Herd size is controlled at about 50 animals
- Navy assists in management of herd

30

Grassland NR Project

- Invasive species removal – Star thistle and artichoke thistle



31

Grassland Areas

- Grazing Outlease – Fire control



32

Agricultural Outleasing

- Provides an additional funding source for natural resources protection
- Grazing and farming leases generate revenue that goes into a central fund
- NR managers propose projects for funding from the agricultural lease monies

33

QUESTIONS??

Thank you
Navy! I
love my
home.



34