

Project Management Plan (PMP)

United States Army
Corps of Engineers
(USACE)

San Francisco District

Regional Dredged
Material Management
Plan (RDMMP)

ISSUES RELATING TO
PHYSICAL PROCESSES

JULY 14, 2020

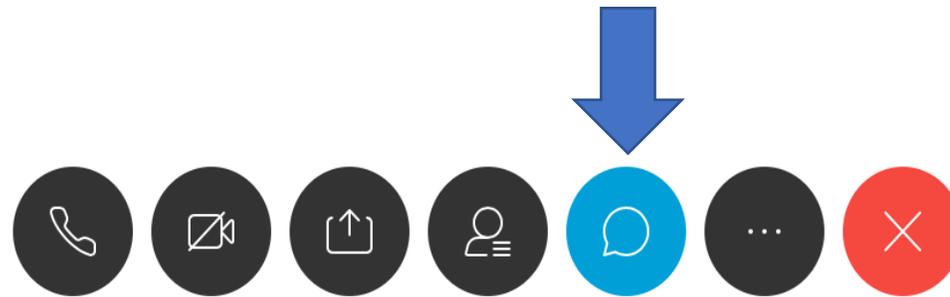
HOUSEKEEPING ITEMS

- Using the Chat Box
- Muting and Unmuting Mikes
- Change in Agenda



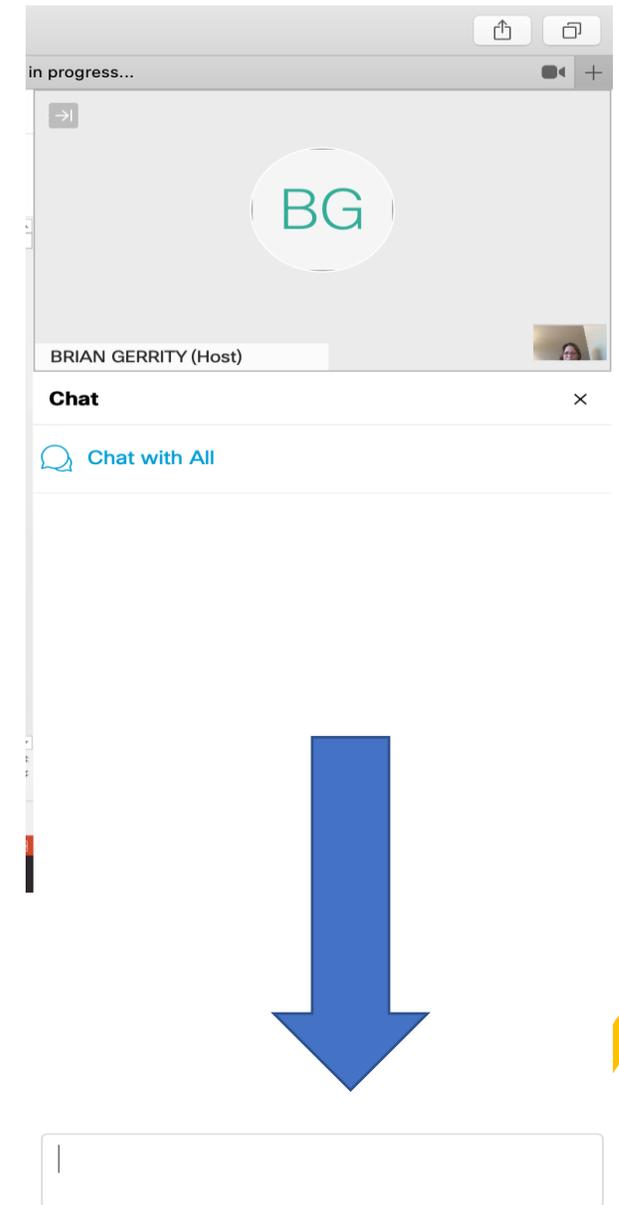
How to Use Chat Box

To access the CHAT BOX, click on the ICON highlighted in BLUE below that looks like a conversation. The ICON will take you to the CHAT BOX



How to Use Chat Box

Once you enter the
CHAT BOX, you will be
able to enter a
comment, question or
request to speak
through the TEXT BOX
highlighted by the
BLUE ARROW.



Muting Phones and Unmuting Phones

- Your mikes are being MUTED.
- During the meeting, you will be able to UNMUTE your mikes by entering Star 6 (*6)
- To MUTE your mikes, enter Star 6 (*6) again
- Please do not UNMUTE your mikes until directed by the Facilitator.



Phone Only Participants

If you are participating in today's meeting via PHONE ONLY and NOT through WEBEX, please UNMUTE your phone by entering STAR 6 (*6), and identify yourself by NAME and ORGANIZATION.

After you have identified yourself, please MUTE your phone by entering STAR 6 (*6) on your phone.

PMP PLANNING MEETING 3
ISSUES RELATING TO PHYSICAL PROCESSES
JULY 14, 2020

TOPIC	AGENDA ITEMS	START TIME
HOUSEKEEPING ITEMS		8:30 AM
WELCOME -- Stu Townsley		8:35 AM
OVERVIEW Stu Townsley	<ul style="list-style-type: none"> • Summary of PMP • Meeting Objectives • Overview of Meeting Theme 	8:40 AM
CHARRETTE PROCESS	<ul style="list-style-type: none"> • Introduction of Speakers and Facilitator Team • Explanation of Charrette Process • Review of Meeting Protocols • Questions Regarding Charrette Process 	8:45 AM
COMMENT OVERVIEW Tawny Tran	<ul style="list-style-type: none"> • Introduction of Comments to Be Discussed 	8:55 AM
COMMENTS RELATING TO SEDIMENT TRANSPORT	<ul style="list-style-type: none"> • Discussion on Comment 1 • Discussion on Comment 2 	9:05 AM 9:25 AM
COMMENTS RELATING TO BENEFICIAL RE-USE SITES	<ul style="list-style-type: none"> • Discussion on Comment 1 • Discussion on Comment 2 	9:45 AM 10:05 AM
BREAK		10:25AM
COMMENTS RELATING TO DREDGING PRACTICES	<ul style="list-style-type: none"> • Discussion on Comment 1 • Discussion on Comment 2 • Discussion on Comment 3 	10:35 AM 10:55 AM 11:15 AM
ADDITION OF NEW COMMENTS	<ul style="list-style-type: none"> • New Comments Relating to Physical Processes • Stakeholder Discussion 	11:35 AM
CLOSING STATEMENT Stu Townsley		12:25 PM

WELCOME

U.S. ARMY CORPS
OF ENGINEERS
San Francisco District

Stu Townsley

Deputy District Engineer for Project
Management, San Francisco District



OVERVIEW

STU TOWNSLEY

Deputy District
Engineer for Project
Management
San Francisco District

- SUMMARY OF PMP
- MEETING OBJECTIVES
- OVERVIEW OF MEETING THEME

San Francisco District – Dredging Mission



Environmental and institutional backdrop

- **NEPA:** 10-year (2015-2024) Environmental Assessment, 29 May 2015
- **Endangered Species Act (ESA):** BO
- **Clean Water Act (CWA):**
 - Section 401 Water Quality Certification
- **Coastal Zone Management Act (CZMA):**
 - Consistency Notification from the San Francisco Bay Conservation and Development Commission (BCDC)
- **Long Term Management Strategy:**
 - Framework for placement in the bay with a target of no more than 20% in Bay
- **Federal Standard:**
 - The least costly dredged material disposal or placement alternative (or alternatives) that is consistent with sound engineering practices and meets all federal environmental requirements, including those established under the Clean Water Act (CWA) and the Marine Protection, Research, and Sanctuaries Act.

2020 O&M DREDGING PLAN*																	
Annual	Bid Open	Award	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	Estimated CY	Dredge Type	Placement Site
			FY2020						FY2021								
Oakland Harbor	13-Apr (A)	1-May (A)													890kcy	Contract Clam Shell	SF-DODS
Richmond Inner Harbor	24-Apr (A)	7-May (A)													223kcy	Contract Clam Shell	SF-DODS
San Joaquin River (Port of Stockton)	15-Jun	29-Jun													285kcy	Contract Pipeline	Various Upland
Suisun Bay Channel	17-Jun	1-Jul													74kcy 33kcy	Contract Clam Shell	Upland SF-16
SF Main Ship Channel	N/A	N/A													350kcy	Govt Hopper	OBDS/SF-8
Richmond Outer Harbor	N/A	N/A													250kcy	Govt Hopper	SF-11/SF-10
Humboldt Bar & Entrance Channels	N/A	N/A													1100kcy	Contract Hopper	HOODS
Humboldt Interior Channels	N/A	N/A													150kcy	Govt Hopper	HOODS
Workplan Funded Projects in Order of Award Date																	
Noyo River and Harbor	5-Jun (A)	15-Jun													18kcy	Pipeline	Upland
Sacramento River (30 Foot Project)	6-Jul	19-Jul													145kcy	Contract Pipeline	Various Upland
Petaluma River	13-Jul	27-Jul													200kcy	Clam Shell/Pipeline	Upland, SF-10
Crescent City Harbor	13-Jul	27-Jul													20kcy	Hydraulic/Pipeline	Wheeler Island
Moss Landing Harbor	19-Aug	27-Aug													85kcy	Hopper/Clam Shell w/Pipe	SF-14, Beach Site
San Rafael Creek (P&S only)	N/A	N/A													TBD	TBD	TBD

* Program execution is based on the FY20 Workplan plus FY19 Carryover.

Date of Last Update: 6/8/2020

The San Francisco Bay Regional DMMP Effort Update



Key Issues

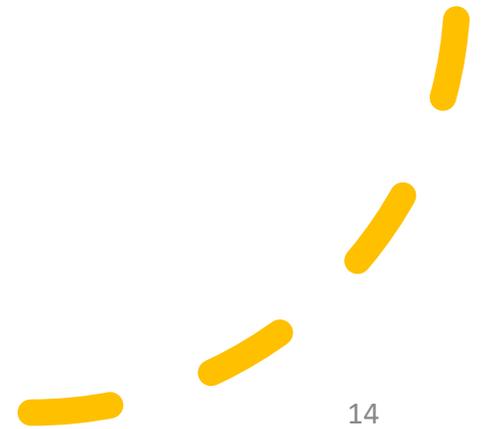
- USACE dredging supports a wide array of goods moving throughout the Bay, 70% of which is commercial and 30% of which is fuel.
- Dredged material in the Bay is an important resource because material is mostly clean.
- Selection of future placement sites.
- Bringing visibility to shallow draft harbors.

Regional DMMP

- Comprehensive approach.
- Focus on addressing dredge material placement issues.
- Improve environmental compliance based upon best available science to inform environmental restrictions/limitations.
- Emphasis on resiliency, especially due to uncertainties with climate change and sea level change.

CHARRETTE PROCESS

- Introduction of Speakers/Facilitator Team
- Charrette Process
- General Protocols
- Questions Regarding Charrette Process



SPEAKERS

U.S. ARMY CORPS
OF ENGINEERS
San Francisco District

- **Stu Townsley**
Deputy District Engineer for Project Management,
San Francisco District
- **Tawny Tran**
Project Manager, Regional Dredged Material
Management Plan (RDMMP)
- **Brian Gerrity**
Lead Planner, RDMMP

THE FACILITATOR TEAM

- **Priscilla Ouchida**
Facilitator
- **John Guenza**
Facilitator
- **Libby Claggett**
Note Taker
- **Joe Schwennesen**
Timer / Note Taker

CHARRETTE PROCESS

Today's Discussion

- Discussion on comments previously submitted by stakeholders in response to draft PMP relating to physical processes.
- Provide stakeholders with an opportunity to add new comments relating to physical processes.

CHARRETTE PROCESS

Different Than a
Public Hearing

- The Charrette is different than a public hearing. Provisions will not be adopted today.
- All comments made in today's discussion will be considered in the development of the PMP and will become part of the project administrative record.
- Stakeholder comments will drive today's conversation.

CHARRETTE PROCESS

Empowering
Stakeholders

- Focused Planning Workshop
- Provides each stakeholder with an opportunity to submit comments.
- Ensures issues and concerns are understood, considered, and reflected in options for the PMP.
- Includes diverse stakeholders to explore options for the PMP.

STAKEHOLDERS THAT SUBMITTED COMMENTS ON PMP

NAME	ORGANIZATION
RICHARD ARIANA	San Francisco Bay Joint Venture
AMY HUTZEL	California Coastal Conservancy
ZOE KELMAN	Private Citizen
ERICA MAHARG	San Francisco Baykeeper
KRISTIN CONNELLY	East Bay Leadership Council
JAN WARREN	Private Citizen
BRIAN ROSS	Environmental Protection Agency
ELIZABETH CHRISTIAN	California Regional Water Quality Control Board
BRENDA GOEDEN	S.F. Bay Conservation & Development Commission
EDWIN DRAPER	Port of Oakland
RENEE SPENST	Ducks Unlimited
DAVE HALSING	South Bay Salt Pond Restoration Project
AL FRANZOIA	California State Lands Commission
KEVIN BUCHAN	Western States Petroleum Association
PASHA MCALLISTER	Chevron
ROY MATHUR	Shell

STAKEHOLDERS THAT SUBMITTED COMMENTS ON PMP

NAME	ORGANIZATION
SCOTT DUSTERHOFF	San Francisco Estuary Institute
ANNE MORKILL	U.S. Fish and Wildlife Service
ARTHUR FEINSTEIN	Sierra Club
BRIAN SWEDBERG	Port of Sonoma
BRUCE JAFFE	United States Geological Survey
BILL WELLS	California Delta Chamber of Commerce
CHRIS POTTER	California Natural Resources Agency
CHRISTINA MCDOWELL	Tesoro
DARREN HOWE	NOAA National Marine Fisheries Service
DAVID LEWIS	Save the Bay
DON SNAMAN	Port of Redwood City
GARY LEVIN	Levin-Richmond Terminal Corporation
J. C. KRAUSE	Dutra Group
JEFF WINGFIELD	Port of Stockton
JIM LEVINE	Montezuma Wetland Restoration
SHANNON ALFORD	San Francisco Port

OTHER STAKEHOLDERS PARTICIPATING IN TODAY'S MEETING

NAME	ORGANIZATION
BRENDA GOEDEN	S.F. Bay Conservation & Development Commission
BRIAN HUBINGER	Chevron
ERIN HANDFORD	City of Vallejo
PAUL KELLEY	City of Vallejo
CHRIS POTTER	City of Vallejo
DAVIS TERRANCE	City of Vallejo
JIM HAUSSEUR	California Marine Affairs & Navigation Conference
RYAN HERNANDEZ	Contra Costa County Water Agency
STEVE CHEW	Curtain Maritime
TOM BARTEE	State Senator Bill Dodd
WILL WALGREN	Dutra Group
BRIAN ROSS	Environmental Protection Agency
DAVID ELLER	Gahagan & Bryant Associates, Inc.
JIM MURCHISON	Gahagan & Bryant Associates, Inc.
SCOTT BODENSTEINER	Haley & Aldrich
JIM MERLO	Harbormaster

OTHER
STAKEHOLDERS
PARTICIPATING
IN TODAY'S
MEETING

NAME	ORGANIZATION
GEORGE SMITH	GBR Smith Group
SCOTT BODENSTEINER	Haley & Aldrich
JIM MERLO	Harbormaster
PETER DAHLING	Marathon Petroleum
DILIP TREVIDI	Moffatt & Nichols
SARAH AZAT	NOAA National Marine Fisheries Service
BRIAN NAGY	Nimitz Group
KEENER BAILEY	Nimitz Group
CHRIS POTTER	Ocean Protection Council
JAN NOVAK	Port of Oakland
RENEE SPENST	Ducks Unlimited
SCOTT DUSTERHOFF	San Francisco Estuary Institute
LOGAN PITTS	State Senator Bill Dodd
MEL ORPILLA	U.S. Representative Mike Thompson (CA-5)
NATE BENTHAM	U.S. Representative Mike Thompson (CA-5)
SARABETH GEORGE	Waterboards

MEETING PROTOCOLS

Key Protocols

- The meeting will be recorded. Your participation in this meeting serves as express consent to be recorded and monitored during the meeting.
- Participants are asked to actively listen.
- Participants are asked to refrain from personal attacks.

MEETING PROTOCOLS

Request to Speak

- In order to accommodate as many speakers as possible, each organization or speaker will be limited to 2 minutes of speaking time per comment.
- If time allows, speakers will be provided additional time to speak after other speakers have had an opportunity to speak.
- We appreciate your yielding to the next speaker when your two minutes have expired.

MEETING PROTOCOLS

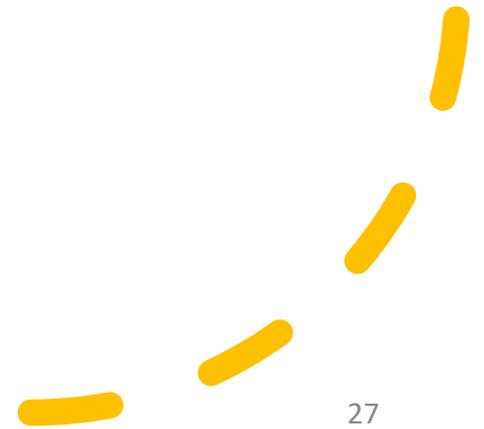
Request to Speak

- To speak on a comment, participants should submit a request to speak through the Chat Box.
 - EXAMPLE: Fred Flintstone, Slate Rock and Gravel Co., requests to speak
- Speakers will be recognized in order that requests to speak are submitted through the Chat Box.
- The Facilitator will recognize your turn to speak

MEETING PROTOCOLS

Request to Speak

- When the Facilitator recognizes your turn to speak, enter Star 6 (*6) to UNMUTE your mike.
- Facilitator will notify the Speaker when the two-minute speaking time has expired.
- After your time has expired, enter Star 6 (*6) to MUTE your mike.



MEETING PROTOCOLS

New Comments

- After previously submitted comments have been discussed, stakeholders will have an opportunity to submit new comments for discussion.
- New comments submitted for consideration at this meeting must (1) relate to the RDMMP PMP, (2) fall within today's subject matter of Physical Processes, and (3) not relate to aspects of the PMP that are purely legal and cannot be discussed.

MEETING PROTOCOLS

Legal Disclaimer

The following Legal Disclaimer applies to comments relating to aspects of the PMP that are purely legal and cannot be discussed:

The U.S. Army Corps of Engineers is unable to directly respond to comments currently being litigated and believes the merits of these issues are more appropriately left for the court to decide.

MEETING PROTOCOLS

Chat Box

- All participants may use the Chat Box to submit a statement or question.
- When submitting a statement or question through the Chat Box, please identify yourself by name and organization.
- Only clarifying questions about a comment will be addressed. Questions relating to what will or will not be in the PMP will not be addressed.

QUESTIONS?

PLEASE SUBMIT YOUR QUESTIONS THROUGH THE CHAT BOX.

PLEASE IDENTIFY YOURSELF WHEN ENTERING A COMMENT OR QUESTION THROUGH THE CHAT BOX.

WHEN YOU WERE A CHILD, WHO WAS YOUR FAVORITE CARTOON CHARACTER?

COMMENT OVERVIEW

TAWNY TRAN
PROJECT MANAGER,
RDMMP

INTRODUCTION OF COMMENTS

- SEDIMENT TRANSPORT
- BENEFICIAL RE-USE SITES
- DREDGING PRACTICES



DEVELOPMENT OF COMMENTS

- USACE received many comments from a wide variety of stakeholders, and the charrette topics reflect the variety of comments received.
- In most cases there were several comments relating to similar topics (e.g sea level rise). For each topic area, USACE staff has selected comprehensive, representative comments to reflect the entirety of thoughts received from all stakeholders who provided written comments on that topic area.
- If you do not see listed here the exact comment you submitted, it is likely because your comment was similar to and is encompassed by a comment selected to represent the topic.

COMMENTS RELATING TO SEDIMENT TRANSPORT

1. A hydrodynamic model of the bay that includes sediment transport, organic carbon production, contaminant fate and transport, and bioaccumulation is fundamental to understanding the environmental impacts of this dredging project. The model must identify and account for all external sources of contamination. These sources must include known sources of contamination such as sewage treatment plants and permitted industrial discharges as well as non-point sources of contamination such as Superfund and RCRA sites, urban runoff, and landfill leachate. The contaminant classes considered must include PCBs, dioxin/furans with 2,3,7,8 substitutions, organochlorine pesticides related to DDT and chlordane, PAHs, and the metals cadmium, mercury, and methyl mercury. A fate and transport model of the bay is only as good as the data provided. An extensive sampling program is required and way overdue.
2. Study sediment transport flows and mechanisms to help evaluate the carrying capacity to better understand future dredging needs for USACE. Need to reevaluate whether or not the LTMS 20% in bay placement limitation and 40% ocean disposal allowance is the most environmentally sound approach.

COMMENTS RELATING TO BENEFICIAL RE-USE SITES

1. SF Bay is a priority landscape for ecosystem restoration, especially habitat restoration for waterfowl. Ecosystem restoration provides many social, economic and environmental benefits. Waterfowl habitat should be prioritized with the RDMMP.
2. USACE should include habitat restoration, wave attenuation and endangered species benefit into the cost benefit calculation of beneficial reuse.

COMMENTS RELATING TO DREDGING PRACTICES

1. USACE should use clamshell dredges in all bay channels. USACE is not prohibited by the federal standard to beneficially reuse sediment or from using mechanical dredges in all in bay channels.
2. Ports are concerned about maintaining dredging for operations, given the increasing cost. Agrees with the importance of implementing better beneficial reuse to help protect from sea level rise. Would like to stress importance of early engagement with other LTMS agencies.
3. Mechanical dredgers have been used at Suisun Bay Channel due to endangered species entrapment. Mechanical dredgers make it easier for dredged materials to be transferred to beneficial reuse sites. Dredging practices should be given consideration into the PMP.

COMMENTS RELATING TO SEDIMENT TRANSPORT

SEDIMENT TRANSPORT

- THERE ARE TWO COMMENTS RELATING TO SEDIMENT TRANSPORT THAT WERE PREVIOUSLY SUBMITTED BY STAKEHOLDERS
- THERE WILL BE A 20-MINUTE DISCUSSION PERIOD ON EACH COMMENT.

SEDIMENT TRANSPORT

Comment 1

A hydrodynamic model of the bay that includes sediment transport, organic carbon production, contaminant fate and transport, and bioaccumulation is fundamental to understanding the environmental impacts of this dredging project. The model must identify and account for all external sources of contamination. These sources must include known sources of contamination such as sewage treatment plants and permitted industrial discharges as well as non-point sources of contamination such as Superfund and RCRA sites, urban runoff, and landfill leachate. The contaminant classes considered must include PCBs, dioxin/furans with 2,3,7,8 substitutions, organochlorine pesticides related to DDT and chlordane, PAHs, and the metals cadmium, mercury, and methyl mercury. A fate and transport model of the bay is only as good as the data provided. An extensive sampling program is required and way overdue.

Context: A hydrodynamic model of the Bay that incorporates the transport of toxins is needed and should be discussed in the PMP.

SEDIMENT TRANSPORT

Comment 2

Study sediment transport flows and mechanisms to help evaluate the carrying capacity to better understand future dredging needs for USACE. Need to reevaluate whether or not the LTMS 20% in bay placement limitation and 40% ocean disposal allowance is the most environmentally sound approach.

Context: Currently the LTMS goal is to provide 20 percent of placement inside the bay , 40 percent beneficial reuse and 40 percent in the ocean. With a changing climate, this process should be reevaluated.

COMMENTS RELATING TO BENEFICIAL RE-USE SITES

BENEFICIAL RE-USE SITES

- THERE ARE TWO COMMENTS RELATING TO BENEFICIAL RE-USE SITES THAT WERE PREVIOUSLY SUBMITTED BY STAKEHOLDERS
- THERE WILL BE A 20-MINUTE DISCUSSION PERIOD ON EACH COMMENT.

BENEFICIAL RE-USE SITES

Comment 1

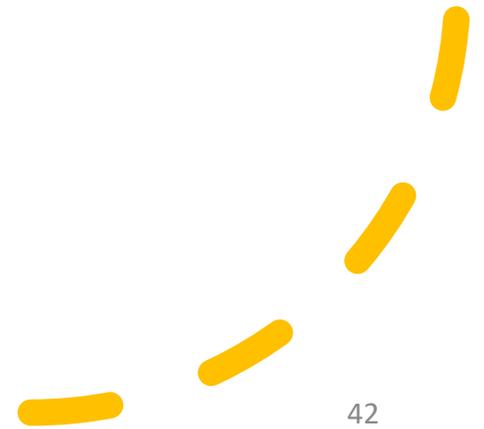
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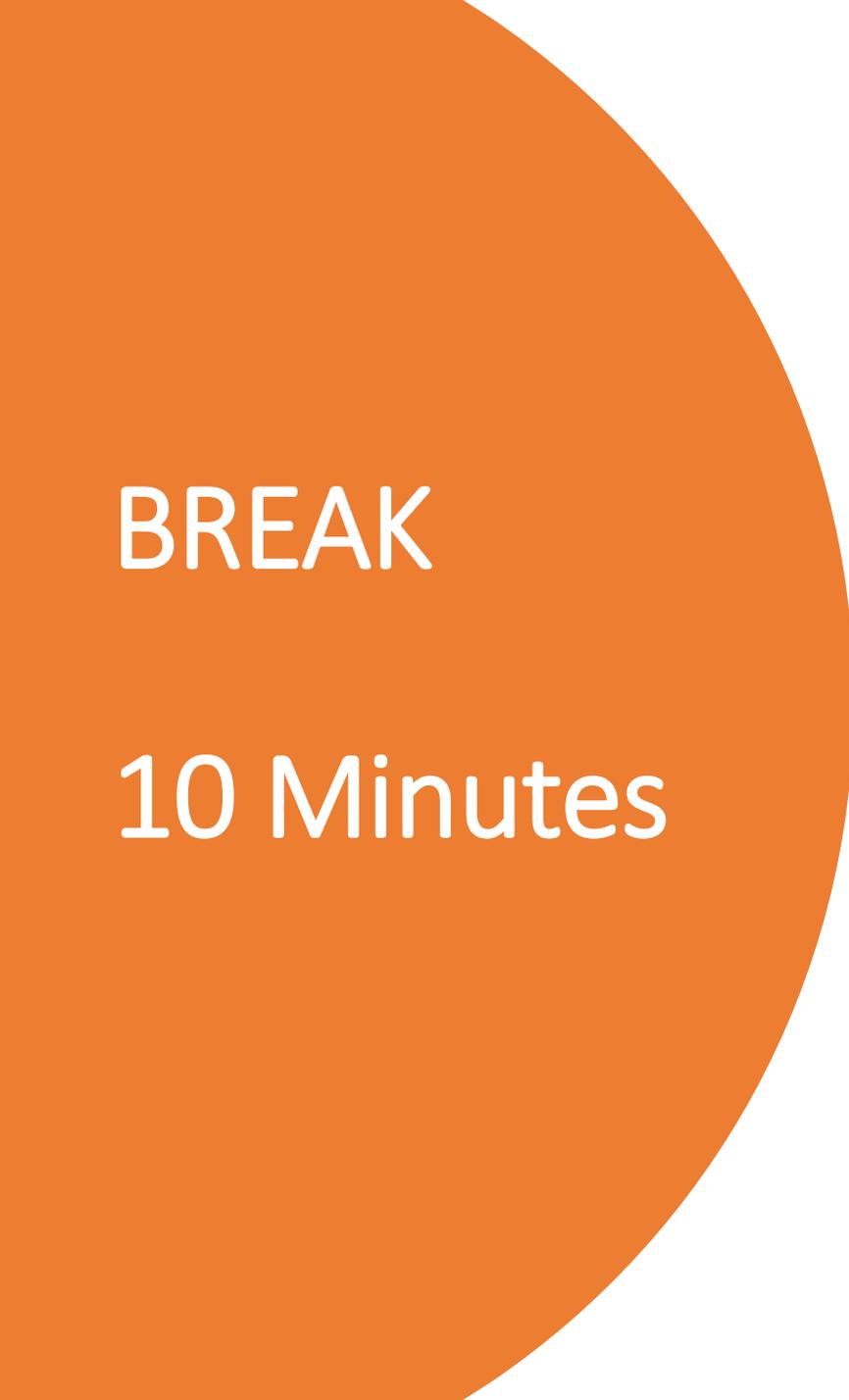


BENEFICIAL RE-USE SITES

Comment 2

USACE should include habitat restoration, wave attenuation and endangered species benefit into the cost benefit calculation of beneficial reuse.



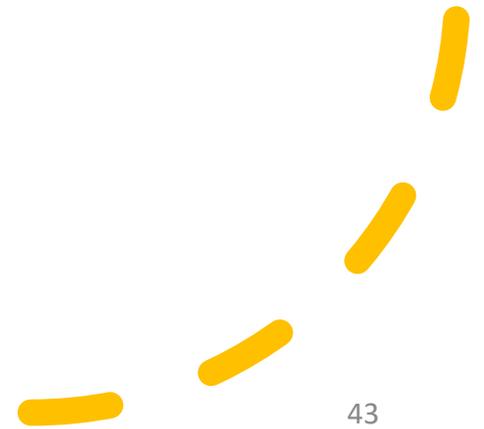


BREAK

10 Minutes

PLEASE RETURN TO YOUR SCREENS IN 10 MINUTES.

WE WILL PROMPTLY RESUME WITH COMMENTS RELATING TO DREDGING PRACTICES



COMMENTS RELATING TO DREDGING PRACTICES

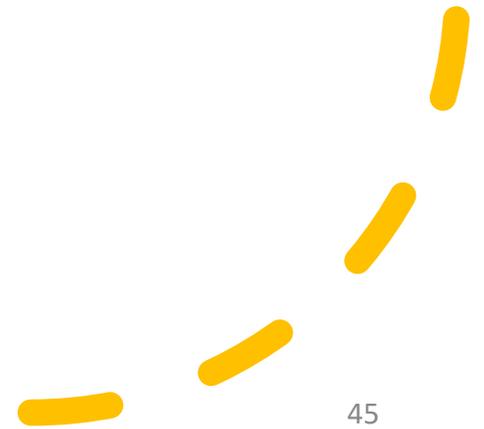
DREDGING PRACTICES

- THERE ARE THREE COMMENTS RELATING TO DREDGING PRACTICES THAT WERE PREVIOUSLY SUBMITTED BY STAKEHOLDERS
- THERE WILL BE A 15-MINUTE DISCUSSION PERIOD ON EACH COMMENT.

DREDGING PRACTICES

Comment 1

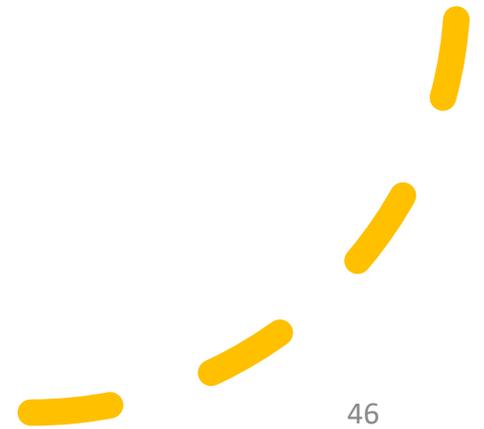
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DREDGING PRACTICES

Comment 2

Ports are concerned about maintaining dredging for operations, given the increasing cost. Agrees with the importance of implementing better beneficial reuse to help protect from sea level rise. Would like to stress importance of early engagement with other LTMS agencies.



DREDGING PRACTICES

Comment 3

Mechanical dredgers have been used at Suisun Bay Channel due to endangered species entrapment. Mechanical dredgers make it easier for dredged materials to be transferred to beneficial reuse sites. Dredging practices should be given consideration into the PMP.

NEW COMMENTS

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NEW COMMENTS

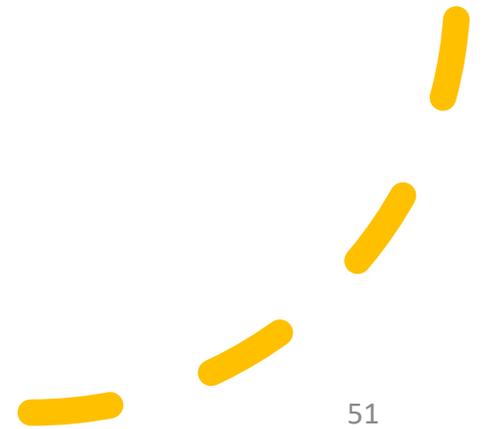
The Facilitator will make a determination whether the New Comment meets the criteria to be discussed in today's meeting.

- Pertains to RDMMP PMP
- Falls within subject area of today's meeting
- Does not address a purely legal issue

NEW COMMENTS

- New comments that are placed on the agenda will be taken up in the order submitted.
- We will try to discuss all new comments today. Comments not discussed will be taken up in Meeting 5 on July 21.
- If you would like to submit a New Comment for consideration, please submit your comment through the Chat Box OR enter your name and organization and indicate you have a New Comment.
 - Example: The Fonz, Happy Dayz Dredging Company. I have a New Comment.

NEW
COMMENT



CLOSING

STU TOWNSLEY

Deputy District
Engineer for Project
Management
San Francisco District

COMMENTS PLACED IN THE PARKING LOT FOR DISCUSSION THAT WERE NOT DISCUSSED TODAY WILL BE SCHEDULED FOR MEETING 5 ON TUESDAY, JULY 21, 2020.

Questions on Meeting 5 or other issues can be directed to Tawny Tran at THANH.T.TRAN@USACE.ARMY.MIL

WRITTEN COMMENTS

Written Comments on the RDMMP PMP may be submitted to the San Francisco District, U.S. Army Corps of Engineers.

Written Comments should be submitted via RDMMP inbox:

- The draft PMP will be posted
- <https://www.spn.usace.army.mil/Missions/Projects-and-Programs/Regional-Dredge-Material-Management-Plan>

Email your comments at: CESPN-RDMMP@usace.army.mil