

Meeting Summary Delta Regional Conditions Work Group Meeting #1

August 4, 2009, 9:00 am – 4:00 pm
Rio Vista Fire Department: 350 Main Street, Rio Vista, CA

ATTENDANCE:

Name	Organization	Status
Ronald Baldwin	San Joaquin County Office of Emergency Services	Member
Steve Bradley	California Department of Water Resources (DWR), BDCP Coordinator	Member
David Breninger	Placer County Water Agency; Recreational Boater of California	Member
Todd Bruce	Dutra Group	Member
Marci Coglianesse	Bay-Delta Pubic Advisory Committee, Delta Levees and Habitat Sub-committee	Member
Mark Connelly	San Joaquin County; San Joaquin County Flood Control and WC District; San Joaquin Area Flood Control Agency	Member
Bill Darsie	Kjedsen, Sinnock, & Neudeck; Central Valley Flood Control Association (CVFCA)	Alternate
Kara DiFrancesco	Natural Heritage Institute	Alternate
Linda Fiack	Delta Protection Commission	Member
Robin Kulakow	Yolo Basin Foundation	Member
Christopher Neudeck	Kjedsen, Sinnock, & Neudeck, Inc.	Member
Sarah Puckett	Natural Heritage Institute; Friends of Marsh Creek Watershed	Member
Dave Shpak	City of West Sacramento	Member
Chuck Spinks	American Society of Civil Engineers	Member
Jan Vick	Mayor, City of Rio Vista	Member
Jane Wagner-Tyack	Restore the Delta; League of Women Voters of San Joaquin County	Member
Leo Winternitz	The Nature Conservancy	Member
Ken Kirby	Kirby Consulting Group, Inc.	Team
Merritt Rice	DWR, Central Valley Flood Protection Office (CVFPO)	CVFPO Representative
Bryan Brock	DWR	DWR Lead
Ibrahim Khadam	MWH	Technical Lead
Bill Eisenstein	Kearns and West	Facilitation
Judie Talbot	Center for Collaborative Policy	Facilitation Support

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Absent:

Gilbert Labrie	Brannan-Andrus Levee Maintenance District, RD 2067, RD 407, RD 317	Member
Karen Medders	North Delta CARES	Member
Michelle Orr	Philip Williams & Associates	Member
Jerry Robinson	San Joaquin Farm Bureau Federation	Member
Brooke Schlinker	US Army Corps of Engineer	Member
Robert Yeadon	DWR	Regional Coordinator

Observers:

Shyamal Chowdhury	Wood Rogers, Inc; Lower Sacramento River Region CVFED Program
Cliff Covey	Solano County Department of Resource Management
Elizabeth Hubert	DWR, FESSRO
Tom Flinn	San Joaquin County Public Works
Mike Hardesty	Reclamation District 2068/2098; CVFCA
Dave Mraz	DWR
Pani Ramainsary	HDR Engineering, Inc.
Pierre Stephens	DWR
Josh Yang	MWH

ACTION ITEMS

- Bryan Brock will bring a large map of the project/non-project levee system to the next meeting.
- Ken Kirby will meet with Mark Cowin to convey the concerns raised by Delta Regional Conditions Work Group members that:
 - members cannot commit the time to the Delta Regional Conditions Work Group if BDCP and DHCCP (and other projects such as the Corps DILF Study) continue to proceed on independent track
 - BDCP is not adequately addressing flood objectives and problems and that the BDCP schedule is unrealistic and that comments made from the beginning about concerns in the Delta have not been addressed
 - they would like some assurance that the efforts they put into collaborating with DWR on the Central Valley Flood Protection Plan (CVFPP) will be used effectively for other related planning projects

Members of the Work Group request a written commitment from Director Snow and Secretary Chrisman that the Regional Conditions Summary Report (scheduled for November 2009), being developed as part of the CVFPP, will be used and considered as a significant input to the BDCP and DHCCP planning process as they relate to integrated flood management problems, opportunities and objectives. Members also request a description of how DWR and the Resources Agency will coordinate the various planning efforts in the Delta to make efficient use of partner and stakeholder participation and input.

- DWR will provide an email or link to the other work groups proposed membership.
- Email to members will include a subject line specific to the Delta work group.

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- In Section C of the charter, the short paragraph following the three bullets should be converted into stand alone fourth bullet.
- Look at what role of other population descriptors may have for the CVFPP. For example, SAFCA's use of the term rural population for communities of 3,000 people.
- Leo Winternitz will check for meeting space availability at the Consumnes River Preserve for Aug. 27.
- Email updates to Steve Chappell
- Put small group comments into worksheet format for meeting summary.
- Ibrahim Khadam will email out the comprehensive list of references, with columns added to provide a category "code" and narrative (consistent with Worksheet #2); and the draft conditions document.
- Bryan Brock will email the staff contact list to members.
- Work group members will complete the following assignments by August 11:
 - Review and comment on the draft "Delta description" document (section 2.1.5).
 - Review, expand, and share perspectives on the References (for CVFPP); please note any document sections that are especially important.
 - Use Worksheet #3 to begin discussion with communities; this is preparatory for upcoming work on problems and opportunities.
- DWR will use the questions from Worksheet #2 in their briefings with interest-based groups.

GROUP RECAP

The following may be edited and used by Work Group partners in communicating with their constituencies:

The Delta Regional Conditions Work Group of the Central Valley Flood Management Planning Program initiated its work on August 4, 2009 with the following actions:

- A discussion of the importance of coordinating multiple planning processes for the Delta
- An initial review of existing and unique conditions/resources in the area that should be considered in the development of the Central Valley Flood Protection Plan (CVFPP). These include biological, physical, infrastructure, socioeconomic (including agriculture), cultural, and institutional and other considerations

The Work Group will assist in developing content for the Regional Conditions Summary Report, a key element of the 2012 CVFPP. The Regional Conditions Summary Report, incorporating input from all five regions of the Central Valley, will identify resources at risk in the absence of an integrated, sustainable statewide flood protection plan as well as the opportunities for the Plan to address flood prevention and protection in a comprehensive and integrated manner that reflects community priorities.

FUTURE MEETINGS SCHEDULE

Work group meetings will typically meet for full-day sessions. Members agreed to meet on the 2nd and 4th Thursday of the month, with some variation likely for November and December. **The NEXT MEETING date is Thursday, August 27th.** Leo Winternitz will check for meeting space availability at the Consumnes River Preserve for that date. The following potential locations were identified for future meetings:

- Walnut Grove library
- Dept. of Fish and Game Yolo Wildlife area
- Isleton
- Elk Grove Sheriff's Department offices
- Vector Control offices (Sacramento)
- Clarksburg church
- Stockton Agricultural Center

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- West Sacramento
- City of Davis Fire Department

MEETING PURPOSE

The goal of the first meeting of the Delta Regional Conditions Work Group was to gain shared understanding of the work products, roles and activities of the work group and initiate content generation for the Regional Conditions Summary Report.

MEETING OBJECTIVES

- Confirm group charter, schedule and membership
- Clarify relationship of work group to the larger FloodSAFE effort
- Outline Regional Conditions Summary Report—the main deliverable of this work group
- Provide initial input on “Study Area Descriptions” (Chapter 2)
- Provide initial input on the “Reference List”
- Develop initial identification of Community success factors

SUMMARY

Opening

Bill Eisenstein opened the meeting and noted that this effort brings together a work group of partners. This is not driven by input – where an agency creates document and asks for comment. Rather, work group members are being asked to help develop the 2012CVFPP and represent the perspectives of the various partners. The CVFPP involves a number of different work products and processes. This work group will focus on the Regional Conditions Summary Report and will sunset after 10 meetings. The end product will contribute to the CVFPP. New work groups will then be formed with their own specific responsibilities.

Introductions were then made around the room. After reviewing the day’s agenda, Bill directed the work group members’ attention to the binder – providing a brief description of each section.

Welcome and Greetings

Bryan Brock introduced himself as the DWR lead for this work group. He emphasized the unique role of work group members in creating products that will go into DWR’s CVFPP. This will be a fairly intensive process, drawing on the expertise and perspectives of the members. Bryan noted that there will be many interim steps over the next few years, as the CVFPP is developed. His role is to support the process and help make the effort as beneficial and successful as possible.

Ken Kirby explained that DWR is initiating a planning process that is structured, pragmatic and collaborative at the same time. The Department is asking for help in developing the content of this plan, which is legislated and requires DWR to submit the CVFPP by December 2012. The legislation contains many requirements as to what is included in the plan. The hope is that the 2012 document will be a strongly supported document. Much work has already been done – the challenge is to synthesize all the views in a meaningful way. Work group members do not need to agree. Members are being asked to work with DWR in developing a report that represents all perspectives – for those in the room and those not at the table. The process will eventually lead to finding common vision for taking action.

The working groups are one of the mechanisms for participation. If this is of interest, DWR is hoping for strong participation in the work groups. Mr. Kirby noted that some may not feel that the work group is a

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good fit for their involvement; if that is the case, DWR understands and encourages that those individuals might participate through a different venue. DWR is also looking for suggestions on the process. The key objective is to capture the many perspectives on flood management.

Discussion (project and non-project levees):

- When asked how non-project levees fit into the CVFPP, it was noted that FloodSAFE has a wide range of various programs. For example, there is an urban and non-urban levee evaluation program going on now. This effort will focus on project levees and those non-project levees that: protect same areas that project levees cover; affect the performance of project levees; or protect the project levees themselves. There are other activities in DWR for non-project levees.
- There was a comment that significant disputes exist regarding project levees and the inter-relatedness of the levee system in the Delta. It's not clear what levees are considered part of the system. In response, the FloodSAFE programs (for example Non-Urban Levee Evaluation) define the non-project levees that are addressed. These are mapped out (see first Action Item above).
- A comment was made that the CVFPP should not distinguish between project and non-project levees; that focus would be on overall protection. It was noted that the legislation for the CVFPP is quite complex and focuses on lands protected by State Plan of Flood Control. DWR is gathering data on all levees through different projects. The CVFPP program is required by statute to focus on particular areas.
- It was noted that the Delta is a special case within the law and for funding through Propositions 1E and 84. There is quite a bit of funding that goes into Delta levee system through programs such as Delta levees subvention.
- There was a comment that DWR will lose the interests at the table if flood protection does not address the entire Delta. Mr. Kirby emphasized that the CVFPP will absolutely look at integrated flood management in the Delta, by looking at all of the flood management elements in the Delta.
- Steve Bradley was asked to discuss his role as the coordinator between the DWR programs of FloodSAFE and BDCP. He indicated that both programs are within the organization of the Resources Agency. A focused commitment was made to ensure that everyone is speaking with one another. Mr. Bradley has been in this role since late April.

Overview: FloodSAFE and the CVFPP

Ken Kirby and Merritt Rice provided a PowerPoint presentation/overview of the FloodSAFE program, the overarching Central Valley Flood Management Planning (CVFMP) Program, and specific CVFPP deliverable. The first work product associated with the CVFPP is the Regional Conditions Summary Report, which provides the context for the initial work groups. This deliverable will describe existing and likely future conditions within the Central Valley, flood and related problems and opportunities, and goals and objectives of the CVFPP. Subsequent work groups will focus on potential flood management actions and then ultimately on flood management solutions. The 2012 CVFPP will primarily use existing data. New studies and data will be coming forward for the 2017 and subsequent updates.

Discussion:

- An inquiry asked about the nature of the CVFPP – whether it was a guidance document and what type of implementation would be involved.
 - DWR replied that the CVFPP needs to be approved by the Central Valley Flood Protection Board (CVFPB) which, along with the Corps of Engineers, will need to consider the CVFPP in its actions. Also, general plans will need to adopt the CVFPP. The Plan is not a feasibility study, it serves as a vision statement of broad agreement that pulls together land use, flood management, and environmental stewardship; it guides state and federal involvement in moving the system forward.

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- A meeting participant added that it is a vision document that comes with a hook for local communities. It has huge implications for local jurisdictions, and that should be clearly stated in the CVFPP. The CVFPP could impact local development. The meeting participant also stated that the 2012 plan won't define what 200-year level of protection means. Subsequently, communities won't have solutions for that 200-year level of protection.
 - DWR agreed that the legislation directing the CVFPP could have implications on land use in the Central Valley. The 2012 CVFPP will not precisely define the boundaries of the 200-year flood plain or which communities would require 200-year levels of protection. It will, however, describe how to establish the 200-year water surface elevation and define criteria for identifying those communities. That plan is designed to move towards solutions to meet flood protection requirements. There are other DWR efforts (e.g. Central Valley Flood Evaluation and Delineation (CVFED)) to help locals with the delineation effort. Information from those efforts will be included in the 2017 plan.
- There was a request for greater description of what the CVFPP is going to be. One participant's interest was in fighting floods: Will the CVFPP deal with reservoir operations and contingency planning? It will be easy to get lost in all the data. Will the plan describe how will reservoirs operate, how to respond when reservoirs fail? He emphasized the need to address how floods will be fought.
 - DWR noted that is exactly what the process is designed to do. Local partners will be designing the plan, and all those things will be part of the plan.
- Another participant remarked that the Delta is expected to do far more than some of the other regions. It can absorb a lot of flood flows and that capacity is dependent on tidal flows. Looking at this from a water management perspective – the emphasis is on avoiding the over-topping of reservoirs. Mitigation often shifts flood management burdens to the Delta. For example, 500 TAF of water is diverted from Folsom and sent to the Delta, where it sits until taken out by the tide. There are high winds here that could cause catastrophic events.
- One person commented that all of this plays out on a very irrational process. The special situation for the Delta, currently, is that there is a big question about the landscape because of the BDCP process. There is a likelihood of major physical changes, that can't yet be described, which have huge flood implications. It feels like the tail wagging the dog. We are left to cope with results of the BDCP.
 - It was suggested that this situation is the reality that we are working in. DWR explained that is trying to use a structured planning process to look at existing and future conditions, so that flood protection plans adequately addresses flood considerations.
 - When asked if the Regional Conditions Summary Report would describe flood conditions in the Delta, as if no conveyance is built, DWR responded that the summary for existing conditions would include flood conditions as they currently occur.
 - A concern was raised that if the CVFPP is developed on the assumption that the Delta is broken, that leads to different results compared to other flood management options.
 - DWR emphasized that the focus of the CVFPP is to look at problems related to flood management in the Central Valley including the Delta, and to accurately reflect the perspectives about flood conditions and management responses. The discussion of conveyance will likely surface in terms of alternative future conditions. If the State has been directed to look at conveyance alternatives, DWR would be remiss to not consider flood implications of those alternatives. It would be important to look at how they fit together.
- One work group member expanded the discussion, saying that BDCP is just one example of many current efforts that is focusing on the Delta. Flood management is affected by different initiatives occurring in various realms. For example, the Delta Protection Act constrains certain activities in the Delta. Another member commented that a reverse approach would be to try and encourage other processes to look at this process. One person remarked on the frustration of

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trying to reconcile numerous planning processes; the lack of coordination puts time constraints on members' participation. A work group member highlighted that the underlying issue to trying to integrate different efforts. For example, the Corps of Engineers has 49 projects in the Delta. Another member noted that some activities are counter-productive to flood management in the Delta. For instance, bypasses will influence water movement – often by moving more water and at a higher velocity.

- Steve Bradley was asked if the Environmental Impact Statement (EIS) has been started for the BDCP. Steve replied that it has been started: there will be a total of nine chapters, although the chapters are not released sequentially. Currently, Chapter 3 of the EIS is posted online as part of a public process.
 - There was overall agreement among work group members that the BDCP process needs to honor the CVFPP process.
 - Work group members also share a sense that policy direction from the Governor's office is driving the BDCP process and that, in general, there has been no response to comments made from local interests.
 - One member related that in another instance, local groups convened to write a letter asking for real-time involvement in a different planning process. It was suggested that the strategy might be helpful in this instance, perhaps copying Delta legislators – to inform them of how local interests are trying to influence the legislation that they approved.
 - Ken Kirby asked work group members for their ideas on how to better integrate the CVFPP process with BDCP, noting that members are trying to determine if their contributions and efforts will have an effect. He asked members how they would to convey their concerns to DWR, regarding a process that the Department is involved with.
 - One person suggested that DWR state explicitly where their priority is – to get clarity on the hierarchy of different planning processes. They explained that is important to understand where the CVFPP fits in. There was general agreement among members that the issues of the Delta do not receive sufficient recognition, or that adequate action does not occur on those issues. One member noted that the primary purpose of the Lower Yolo Bypass is flood control: the Department of Fish and Game recognizes the bypass as a flood control channel, but BDCP does not.
 - Another person stressed the need to clarify the process for trying to integrate various processes, to specify how the integration would occur. Beyond BDCP, there are other activities such as the Corps of Engineers and Delta Islands Levees Feasibility Study.
 - Based on the morning discussion, Ken Kirby will meet with Mark Cowin to convey the concerns raised by Delta Regional Conditions Work Group members (see action item list).

After the lunch break, Ken Kirby concluded the presentation on the CVFPP timeline. He noted the different opportunities for involvement in the overall process. In response to a question about the topic work groups, he noted that topics covered will include reservoir operations and a 200-year level of protection. Another question asked if a conveyance topic work group might be possible. Ken replied that the regional and topic work groups must be directly focused on the content of the CVFPP; however, a CVFPP coordination work group might be formed for that purpose, if deemed necessary.

Charter Review

Bill Eisenstein conducted a short overview of the work group charter, calling out the focus and deliverables for the group as well as the roles and responsibilities and timelines. Bill also summarized the decision-making process, which does not require that members to agree but asks for their perspectives regarding plan content.

Discussion:

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- In response to a question, it was noted that meeting locations will vary and that members will be asked for potential meeting venues.
- A suggestion was made that in Section C, Work Group Focus, the short paragraph following the three bullets be converted into stand alone fourth bullet.
- One member asked what would happen if the process finds that work group members hold some strongly divergent views and whether that would be captured. It was emphasized that the team is responsible for the document reflecting the perspectives that have been expressed.
- It was noted that staff contacts are provided in the binders.

Glossary

Bryan Brock introduced the glossary, which is a dynamic list of terms. He provided an overview of some key terms, including the higher-level initiatives such as the FloodSAFE and CVFMP programs. Ken Kirby observed that the definition of flood risk includes the consequences of flooding.

Discussion:

- The definition for the levee protection zone reflects what is contained in the legislation.
- It was clarified that levee mileage represents the length along the crown of the levee. For a river levee, river mileage would be approximately half of the levee mileage because of levees on both banks of the river.
- One member commented that some efforts have population descriptors beyond urbanized, non-urbanized, and urbanizing. For example, SAFCA discusses rural areas with an intermediate population of 3,000. (see action item list)

Regional Conditions Summary Report Overview

Ibrahim Khadam summarized the process for developing the Regional Conditions Summary Report. This will focus on the existing and future conditions in the Central Valley, problems and opportunities, and flood management goals and objectives for the CVFPP. Later work groups will assist in developing the management actions, evaluation criteria, and management solutions. Ibrahim reviewed the overall structure of the report, providing additional detail and description for Chapter 2 (Study Area Descriptions) which is the first focus for the work groups. He pointed out that a working draft of section 2.1 of Chapter 2, Delta General Regional Descriptions, was included in the binder. This text will be revised by the team based on input from the work group.

Discussion

- One work group member hoped that any item in the Regional Conditions Summary Report would be investigated only to the extent that it bears on flood control. It was suggested that categories, such as air quality, would therefore receive very little coverage. Similarly, it was suggested that it is more important to describe elevated roadways which could serve as emergency levees v. roads that could be damaged by flooding.
- DWR explained that the CVFPP, as an integrated flood management approach, is looking at how different resources are impacted by potential flood management action – in addition to describing flood control plans.

Specific suggestions for additions to the outline/Resources Conditions Summary Report included:

- Physical: climate, prevailing wind patterns, tidal effects, topography/bimetry
 - Matrix of which islands are isolated if one floods
- Infrastructure:
 - physical encroachments in levees that impact flood control (roads on top of levees are both and impact and used for flood fight), levee conditions – what are the conditions of the levees; what about bifimetry?

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- Other – dry land cross levees (inventory and evaluation); location of hazardous materials; flood history
- Borrow sites; dredge material reuse for levee protection
- Abandoned vessels – affect flood fights and flood control
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- Emergency response resources: flood fight, evacuation, equipment, material, manpower, agency capabilities (may lag behind private response)
- Socio-economic:
 - land ownership patterns, e.g. DWR owns levee but not land underneath; some levees do not have established corners and surveys are needed to determine the exact location of the levees
 - Different land ownership patterns in the Delta (e.g. LYB habitat corridor, wildlife areas, easements, parks)
 - Transportation corridors (bridges – escape route, shipping channels and railroads)
 - Waterways of Delta are transportation links; ferry systems
 - Water-born assets and capability; ship traffic management systems
 - Power and Energy – natural gas storage, e.g. sub-surface/mineral rights are different from land ownership
- Cultural Resources – there are diverse cultural resources (Chinese and other cultural resources)
- Institutional –
 - governance and jurisdiction, should be called out separately
 - conflicting authorities, e.g. consequences when Boating and Waterways declares no boating activity
 - Existing land management plans within the Delta (wildlife management plan, historical resources)
 - Financial resources, bond availability
-
- Biological conditions – natural floodplains
- Draw on existing resources, such as Delta Vision and DRMS studies

Study Area Description - Worksheet #1

Workgroup participants were split into small groups to identify unique resource characteristics for the Delta, using Worksheet #1. Discussion results are provided at the end of this meeting summary.

Next Steps

Bryan Brock explained that comments from all the work groups will be put into a consistent format, and then sent to MWH to revise the working draft of the Regional Conditions Summary Report.

Bill Eisenstein described the other two work sheets that work group members are being asked to complete on their own

- Worksheet #2 provides “reference list” of documents and studies; members are asked to share their perspectives on the value of the references for the Regional Conditions Summary Report, as well as to identify any information sources that are missing.
- Worksheet # 3, Community Success Factors: discussion of this topic was deferred to Meeting #2. Members were asked to consult with constituencies on what would constitute a successful Central Valley and regional flood management plan

Additional Perspectives

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The CVFMP process wants to hear from all the perspectives. When asked if there other individuals or perspectives that CVFMP needs to hear from, members made the following suggestions:

- Central Valley Joint Venture
- School districts (with facilities behind levees)
- Agriculture
- Local electeds
- Fisheries (environmental stewardship work group)

Closing

Bill Eisenstein reviewed the day's work with the goals set at the beginning of the meeting. He noted that although some agenda items would be completed off-line, time was added in the agenda to discuss important considerations that relate to the efforts of the work group.

Final Questions and Answers:

- One work group member asked if the charter will require signature, or if it served as a basis for understanding between group members. It was explained that the charter does not require signature.
- A member stated that DWR should insure that all issues are identified even if it means delaying the completion of the Regional Conditions Summary Report. DWR responded that the desire is to have complete conversations. However, it is important to understand that the 2012 CVFPP is being developed to meet a legislated mandate and that there are four other work groups that are contributing to each major milestone of the plan.
- A question was raised as to how this process will reach out to Suisun Marsh. It was suggested that updates be sent to Steve Chappell (see action item list)

Worksheet #1 results shown on following pages.

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RESOURCE AREA	WHAT UNIQUE CONDITIONS WITHIN THIS REGION NEED TO BE SPECIFICALLY FOCUSED ON IN THE CVFPP?	STUDIES AND DATA SOURCES PARTICULARLY RELEVANT TO THIS TOPIC	REGIONAL PRIORITIES ASSOCIATED WITH THIS RESOURCE AREA
<p>PHYSICAL Conditions. This includes factors such as geology, geomorphology, hydrology, hydraulics, water quality, and water and air quality.</p>	<ul style="list-style-type: none"> • dredging • subsidence below sea-level • peat soils – high subsidence • levees are made of peat; deep toe drains are always being pumped out (hardest working levees in the state; greatest consequences for failure) • there is flexibility in the system (islands “float” a bit: absorb with high tide & dewater with low tide) • seismic conditions • climate change & sea-level rise • “wet” levees hold back water all the time (which levees carry water, how often and how much) • tidal effects • inflow including reservoir reoperation and upstream releases • mercury contamination of channel beds • location is at the bottom of the funnel – upstream flood mitigation flows here • intersection of tidal effect, flows, wind patterns and potential sea-level rise intensifies and magnifies flood issues • levee loss = loss of region; region would not exist without levee and bypass infrastructure • increased sedimentation of 	<ul style="list-style-type: none"> • LIDAR – extent of existing subsidence (at what rate will other portions continue to subside in the future) • DRMS talks about failure modes – there are fragility curves for each type • hard to collect data on gas lines – DRMS was able to access some information 	<ul style="list-style-type: none"> • subsidence below sea-level • “wet” levees hold back water all the time • tidal effects • inflow including reservoir reoperation • intersection of tidal effect, flows, wind patterns and potential sea-level rise intensifies and magnifies flood issues • levee loss = loss of region; region would not exist without levee and bypass infrastructure



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<p>BIOLOGICAL conditions. This includes factors such as vegetation, wetlands, wildlife, fisheries and aquatic resources, and special status species.</p>	<p>waterways</p> <ul style="list-style-type: none"> • beavers and dam building • tidal elevations for habitat • endangered species • invasive species • floodplains 	<ul style="list-style-type: none"> • • 	<ul style="list-style-type: none"> •
<p>SOCIO-ECONOMIC conditions. This consists of a host of topics such as land use, recreation, economic development, governance-regulation, and demographics.</p>	<ul style="list-style-type: none"> • governance, especially land use (DPA is unique; plan adoption triggers local planning) • farming • farm workers – isolation and how to evacuate • subsistence fishing • development limitations • legacy towns – not big enough to be “urban” • rural dwellings grandfathered into land use • building rights in Delta (not developed yet) • illegal dwellings • rapid urbanization in 2ndary zone • rebuilding rules – FEMA • flood insurance • 200-year floodplain definition • recreational support for habitat (duck clubs, hunting, boating, fishing) • water supply 	<ul style="list-style-type: none"> • • 	<ul style="list-style-type: none"> • governance, especially land use • farming • rapid urbanization of secondary zone



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<p>CULTURAL RESOURCES. Cultural resources include prehistoric resources, historic resources, community character (such as heritage towns), Native American traditional use, and Indian Trust Assets.</p>	<ul style="list-style-type: none"> • legacy towns – allowing them to survive • Asian-American heritage – Chinese historic sites need protection • local identity festivals (wildlife – cranes and bass, farming – pear and asparagus) 	<ul style="list-style-type: none"> • • 	<ul style="list-style-type: none"> • legacy towns • Asian-American heritage
<p>INFRASTRUCTURE conditions. Including essential transportation, water and power corridors.</p>	<ul style="list-style-type: none"> • transportation <ul style="list-style-type: none"> - roads and highways (on and off levees); impacts military at Travis; highways of statewide significance - bridges - ferries - waterways, shipping channels, ports - railroads - airports • marinas, houseboats, docks, abandoned vessels • water supply contamination and intrusion • natural gas lines, wells, storage, and transmission (are essential to socio-economic conditions) • water lines, aqueducts & canals, intakes and outfalls 	<ul style="list-style-type: none"> • Yolo Bypass Land Management Framework for the future wildlife area • DPC Management Plan and Background Report • CalTrans Highway Inventory • Ports of West Sacramento and Stockton • DWR Emergency Response Plan 	<ul style="list-style-type: none"> • bridges and ferries severed in floods? how to repair and maintain? economic impacts •

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RESOURCE AREA	WHAT UNIQUE CONDITIONS WITHIN THIS REGION NEED TO BE SPECIFICALLY FOCUSED ON IN THE CVFPP?	STUDIES AND DATA SOURCES PARTICULARLY RELEVANT TO THIS TOPIC	REGIONAL PRIORITIES ASSOCIATED WITH THIS RESOURCE AREA
	<ul style="list-style-type: none"> • ag and irrigation facilities • power lines • communication towers • water treatment, sewer, and stormwater • levees and related facilities (weirs, pumps, utility crossings, syphons) • dry land levees • hazardous materials • complexity of inter-related infrastructure • risk on domino-effect failure • high level of regional and state disruptions • high risk to life and property 		
<p>INSTITUTIONAL conditions. Institutional conditions include laws and regulations, management directives and policies, and governance structures and responsibilities.</p>	<ul style="list-style-type: none"> • governance • Delta is legally defined area with the DPC • five counties • local control over land use • coordination with other Delta programs • local, regional, state, federal <ul style="list-style-type: none"> - multiple agencies under each • conflicting guidance from state and feds for levee standards and maintenance • levee maintenance issues: reclamation districts, ESA, project v. non-project levee maintenance <ul style="list-style-type: none"> - conflicting laws, regulations, practices 	<ul style="list-style-type: none"> • DPA – primary and secondary zone • geographically defined Regional Gov.1 • Yolo Bypass Wildlife Area Land Management Framework 	<ul style="list-style-type: none"> • governance • local control over land use • COORDINATION WITH OTHER DELTA PROGRAMS • conflicting state and federal guidance on levee standards and maintenance • impacts to other areas are not tallied across larger landscape; cumulative impacts are not considered in development of the system



Meeting Summary

Delta Regional Conditions Work Group

Meeting #1

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	<ul style="list-style-type: none"> • private easements, flood control, wildlife habitat • Habitat Conservation Plans • overlapping jurisdictions • funding: benefit'/cost ratios estimation • emergency flood fight & navigation • conflicting jurisdictional missions <ul style="list-style-type: none"> - land use, economic development and water supply - resource conservation: terrestrial v. aquatic - flood protection - pest and vector control - emergency response - transportation • homeland security • lack of understanding at local level of fit with larger flood control picture and that there is some responsibility for planning outside city lines • impacts to other areas are not tallied across larger landscape; cumulative impacts are not considered in development of the system • Jones Tract seepage problem: local agencies don't have funding; mitigation requirements • institutional fragmentation compounded by legal decisions (e.g. Paterno) • when local agencies try to do the right thing, often don't have the right 		



Meeting Summary Delta Regional Conditions Work Group Meeting #1

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	data (need updated flood flows) - e.g. maximum capacity/flows for Yolo Bypass - data poor: can't make informed decisions to integrate planning with flood control		