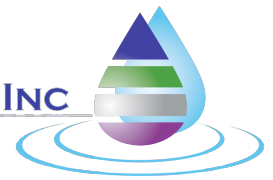


## MEETING NOTES

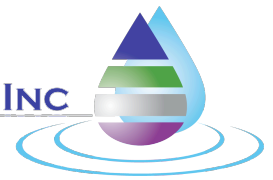
<b>Project Name:</b>	LSJ-DS RFMP	<b>Date:</b>	12/17/2013
<b>Meeting Subject:</b>	Paradise Cut (PC) Symposium	<b>Project No.:</b>	
<b>Location:</b>	Stockton Ag Center, 2010 E. Earhart Ave.	<b>Page:</b>	1 of 3
<b>Notes by:</b>	Steve Holmstrom (SFH)		
<b>Attendees:</b>	See sign-in sheet by KF	Kim Floyd – KF	Bill Edgar – BE
	Initials used herein are:	Jim Giottonini - JG	John Henrich – JH
	Mary Hildebrand – MH	Glen Gebhardt – GG	Paul Marshall – PM
	Joe Countryman – JC	John Cain – JCain	John Maguire – JM
	Dave Peterson - DAP	Dante Nomellini - DN	Eric Ginney - EG
			Mike Rossiter – MJR
			Jesse Patchett - JJP
			Jenny Marr - JMarr

- 1) Introductions by Kim Floyd (KF)
- 2) Goals and Objectives of Meeting by Jesse Patchett (JJP)
- 3) LSJRFS Presentation by Dave Peterson (DAP) (see PowerPoint slides)
  - a. Q - Mary Hildebrand (MH): How are benefits calculated? A: By economic analysis using HEC-FDA.
  - b. Q – What happens at a Milestone #2 conference? A: The Tentatively Selected Plan (TSP), and Final Array of Alternatives is identified. Once that is accepted by HQ then the TSP can be refined in detail and the NEPA/CEQA documentation can use the Final Array of Alternatives.
  - c. Q – from Joe Countryman (JC): Has more or less flow come down Paradise Cut (PC)? A: This was not an issue for the Feasibility Study. The Corps evaluated current performance then measured alternatives against the existing condition. And, this topic was discussed later in the meeting.
  - d. Q – Paul Marshal (PM): If the Corps has dropped PC from further consideration, then why are we having this meeting? A: We are here for the RFMP to determine what others are doing relative to PC and if others may participate in a solution.
  - e. Q – Are there additional benefits that the Corps did not (cannot) consider? A: Yes, The State is not constrained the same way as the Corps. We are looking at other studies and benefits.
- 4) MBK / River Islands Presentation by Mike Archer (see PowerPoint slides)
  - a. Models started with David Ford UNET model circa 1996 (pre-Comp Study).
  - b. High floods cause more flow in Old River than LSJR.
  - c. Paradise Cut Weir overtops at about 18,000 cfs.
  - d. All analyses to date have used Comp Study hydrology.
  - e. USACE design flow in SJR = 52,000 cfs, with 15,000 cfs diverted to PC. Current performance = 13,400 cfs).
  - f. Water Surface Profile on Old River looks like tailwater constant affects may be an issue!
  - g. Q – Jim Giottonini (JG): Is MBK applying at new CVHS? A: Yes we are looking at CVHS and finding the differences. May have product in early 2014.
  - h. Q- Are alternatives shown still being actively pursued? A: Yes.
  - i. Comment by Glen Gebhardt: Initially there was a contract with MBK to create a better model to meet Flood Risk Management objectives for Stewart Tract and evaluate need for RD17 levee raising.
  - j. Comment – JCain: Does the new hydrology project Climate Change? He thinks climate change is very relevant and should be basis for formulation and analysis.
  - k. Q – JCain: Was climate change considered in modeling? A: Yes in that the CVHS hydrology is scalable.
  - l. Q – Does MBK have the latest best information from DWR? A: Not sure.
- 5) Hydraulic Model Comparison Presentation by Mike Rossiter of PBI (see PowerPoint slides)
  - a. Q – Wanted clarification of hydrology used for each model, how much is in overbanks, are there breaks, etc.
  - b. Q – Mary H: Did models assume no levee breaks upstream? A: Yes, CVHS assumes overtopping without failure. DAP explained difference between analysis and design assumptions.
  - c. Q – Jim Giottonini: There is a big difference in flows – why? A: The methods of analysis in the Comp Study and CVHS were different. Updated frequency curves, reservoir inflows, reservoir and channel routing, etc.



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- d. Q – Dante Nomellini: In 1997, the Vernalis gage didn't include all flow? A: Yes, MBK estimated the flow that bypassed the gage in the overbanks.
  - e. Q – Dante Nomellini: On the hydrology slide, 124 K cfs has never happened, right? A: Yes, it's the 200-year Comp Study hydrograph peak.
  - f. Q: How are models calibrated? Is it just manning's 'n'? A: No, but manning's 'n' is a simple way to match observed stages. Flow hydrographs, bridge modeling, and storage areas (overbank flow) were also considered.
  - g. Q – John Henrich: Wanted clarification of calibration adjustments.
  - h. Q – How will the TO25 models be better? A: The TO25 models will use existing levee heights, and the model will extend upstream to Newman and include storage areas.
  - i. Q – Bill Edgar (BE): Does a city/county need to use the State provided models? A: No, the engineer may choose the model and
  - j. Q – Eric Ginney (EG): Will TO25 models include all new surveys? A – Paul Marshall (PM): Yes, both, RAS and FLO2D. User defines the hydrology.
  - k. Q – John Maguire (JM): What are the cities and counties obligated to do for ULDC? A: Not prescribed. Engineer chooses and stamps. Would suggest using CVFED TO25 models as a basis.
  - l. Q – JC: When do we have adopted hydrology? A – MJR: Don't know. PM: Don't know will check with Jon Ericson.
  - m. Q – BE: Want Paul Marshall to connect on John Maguire's question. A – PM: DWR will provide their model. Up to locals to hire engineer to apply and/or modify the model.
- 6) Presentation by John Cain (JCain) of American Rivers (see PowerPoint slides)
- a. Addressed question "why are we still studying"? A: His answer for DWR is: a) more resilience, and 2) IRWM.
  - b. (KF) Settlement agreement with River Islands is available for distribution. Agreement was between NRDC, Rec. Board, and River Islands Development.
  - c. BDCP. He said local stakeholders hated all alternatives except an expanded Paradise Cut.
  - d. American Rivers has Newfields develop another one-dimensional model (not in MJR - PPT).
  - e. Applied for DWR Flooding Corridor Grant. Showed footprint in grant application. SDWA co-sponsor. Grant not awarded – too complex.
  - f. Says he doesn't agree that enlarged PC would send more fish to the pumps; that would be very infrequently.
  - g. He states that at and above 18,000 cfs there are no fish impacts.
  - h. Stated that fish prefer a native tree lined ditch over and engineered channel.
  - i. Q – DAP: Concerning BDCP corridor widening. The slide showed a 2.8 foot stage reduction at Grantline Canal – how? A –EG: will send link to analysis in BDCP document.
  - j. Showed slides for Delta Corridors plan. [JJP we haven't studied this yet.]
  - k. See slides on "PC Ecological Benefit", last slide. No fish benefits. Primarily terrestrial benefits.
- 7) Eric Ginney (EG) of ESA on BDCP "Corridors Document".
- a. Q – DAP: Has there been any consultation with USACE on conditions of 408? Thresholds for no hydraulic impact mitigation? A: No.
  - b. Attachment 5E.A of Administrative Draft EIR.
  - c. Focused benefits to salmon and splittail [conflicts with John Cain's statement].
  - d. Only a 50-year analysis was done. "HORB" = head of Old River Barrier. "IORC" = improved Old River Corridor.
- 8) Eric Tsai (ET) and Jenny Marr (JMarr) presented on DWR Post 2012 CVFPP Analysis of Paradise Cut (see PowerPoint slides)
- a. Used RMA2 Delta 2D model analysis, HEC-RAS 1D Model, and HEC-FDA for Economic Analysis.
  - b. Used Comp Study Hydrology.
  - c. Used same downstream stage for all frequencies.
  - d. Their analysis shows stage increases farther downstream.
  - e. Q – DAP: Do costs include downstream hydraulic mitigation? Impacts are shown down to Clifton Court Forebay and Discovery Bay. A: No.
  - f. Q – SFH: Explain range of stage differences between 50-, 100- and 200-Year scenarios. A – JMarr: noted that 50- and 200-year are lower than the 100-year stage reductions because of routing and overbank storage effects.
  - g. [JM] said CVFMP is assuming upstream failures. At 50% or 85% probability of failure, with a breach width of 20x



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levee height.

- h. [JM] Focus is on 100-year flood (using Comp Study hydrology).
    - i. Conclusion: PC improves flexibility and resiliency.
  - i. Q – JG: What is timing for study analysis product? A: with BWFS in 2016.
  - j. Q – Fish and Wildlife: Do alternatives change frequency of PC inundation? A: Yes
  - k. Q – EG: What improvements give best bang for the buck? A: Unknown at this time.
  - l. Comment – GG: Need both widening of weir and new weir upstream.
  - m. Q – JG: Since FRM EAD won't pay for project, what are ER benefits? A – ET: Non-monetized, not quantified.
  - n. Q – JCain: Public hasn't been given opportunity to chime in on configurations. Are there any plans to engage the public? A – ET: Yes. Comment – JC: Don't think comment period is good enough.
  - o. Q – DAP: Will they analyze sediment transport? A: Yes
  - p. Comment – KF: RFMP is opportunity to engage local/public input.
  - q. Comment – JM: Just working on bookends, trends, etc to inform the plan formulation.
  - r. Comment – JCain: Thinks BWFS needs to have its own public engagement.
  - s. Q: Since the LSJRFS concluded that RD17 levee work still needed even with stage reductions, what is the mainstem benefit? A: More high-stage resiliency.
  - t. DWR is exploring Ecosystem Restoration opportunities, and is investigating water quality and sediment impacts.
- 9) What's Next?
- a. Q – KF: Do the people here want to reconvene in a few months? A – Dante: Proceed with RFMP, draft a project then bring back in small group discussions. A – JG: SJAFCA wants to stay engaged in the various studies.

# Paradise Cut Symposium – December 17, 2013

Name (Please Print)	Email or Mailing Address (Please Print)
Dave Peterson	dpeterson@pbierg.com
TODD BERNARDY	Todd.Bernardy@water.ca.gov
Eric Tsai	Eric.Tsai@water.ca.gov
GEMMA BRISOTTO	gemma.brisotto@stocktongov.com
Mike Rossiter	mrossiter@pbierg.com
John NEIRA	juan.neira@stocktongov.com.
Jenny Marr	jmarr@water.ca.gov
Steven Schoenberg	Steven_Schoenberg@fws.gov
Michael Archer	archer@mkengineering.com
Phil Govea	pgovea@ci.manfaca.ca.us
Mary HILDBRAND	hildfarm@gmail.com
Lorei Chen	lchen@water.ca.gov
Jeff Mueller	jmueller@ksniinc.com
Gerrit Platenkamp Glenn Gebhardt	gerrit.platenkamp@icfi.com ggehardt@ci.lathrop.ca.us

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Name (Please Print)	Email or Mailing Address (Please Print)
TOSSE PARRETT	jparrett @ PBSiUG. com
Jim Giuffroni	jim.giuffroni @stocktongov.com
Roger Charchue II	roger.charchue II @stocktongov.com
Bill Edger	bedger @edgerandassociates.com
RAMON BATISTA	RBATISTA @CAMBRAYBPOVP.COM
SUSAN DELLOSSO	SDELLOSSO @CAMBRAYBPOVP.COM
Paul Larson	Planson @water.com.gov
Steve Holmstrom	sholmstrom @pbieng.com
Ed Short	EDSHORT @ comcast.net
Scott Woodland	woodland @water.ca.gov
GARY CATTNER	GARY.CATTNER @STOCKTONGOV.COM
JHU HERAZU	Jherazulu @ aol.com
Joseph Conkryn Jr.	CVFRB
Ramon Batista	RD2062 joseph @ VDCPERNET