



COUNTY OF YOLO

Office of the County Administrator

Patrick S. Blacklock
County Administrator

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CACHE CREEK TECHNICAL ADVISORY COMMITTEE AGENDA

DATE: MONDAY, FEBRUARY 11, 2013
TIME: 10:00am – 12:00 pm
LOCATION: County Administration Building, Board of Supervisors Chambers, 625 Court Street, 2nd Floor, Woodland, CA 95695.

Time set items are approximate. The Chair may adjust the time any item is heard in order to more efficiently manage the meeting. Items may be heard earlier than the time indicated at the discretion of the Chair.

1. CALL TO ORDER (10 AM):

2. APPROVAL OF AGENDA:

3. INTRODUCTIONS:

4. ADOPTION OF MINUTES OF THE JANUARY 14, 2013 MEETING:

5. PUBLIC COMMENTS:

Members of the public may address the Technical Advisory Committee on any subject relating to the Technical Advisory Committee, but not relative to items on the present agenda. The Committee reserves the right to impose a reasonable limit on time afforded to any individual speaker.

6. FOLLOW-UP ITEMS:

Parking Lot:

1. Vehicles left abandoned on flood plain – (Submitted to RWQCB)
2. Barn structure falling into Cache Creek (Reynolds Property) (Submitted to RWQCB)
3. Look for funding for signage regarding fishing due to mercury presence. (Staff)
4. Monitor erosion and drainage concerns at Huff's Corner (Staff)

Action Items:

1. Invasive Species Mapping During Removal by Cache Creek Conservancy (To be discussed Spring 2013, Staff and Martin)
2. Biological baseline and Biological Update for 5-Year Survey: 2010/2011 data needs to be resorted into vegetation height categories for analysis. (In process, Staff and Martin)
3. Baseline DTM data: Produce TIN's from past survey data for analysis by Geomorphologist. (Larsen/Staff)
4. Obtain new hydrology that is now available through Fran Borcalli (Tuttle/Tompkins/Larsen)
5. Obtain copy of original Palisades construction study (Sabatini)
6. HEC-RAS Model (Larsen)
7. Investigate other means of conducting 2014 Creek Walk (boats, OHV's, etc) (Sabatini)
8. Transition to Liberty Meeting recording system for audio recording and minutes of future TAC meetings (Sabatini/Manpryn)
9. Aerial Survey Scope of Work and Specifications (TAC/Staff)

7. STAFF UPDATES (10:10-10:45 AM):

7.1 Natural Resources Division

7.1.1 General Permit Update

Army Corps 404 (RGP 58)

RWQCB 401

USFWS Biological Opinion (VELB)

CDFW Streambed Alteration (1601/2/3)

CDOC SMARA Compliance for CCRMP (PRC Section 2715 – SB
133/Wolk)

7.1.2 Ambient Mercury Study

7.1.3 Cache Creek Parkway Plan

7.1.4 Summary of Board of Supervisors' review of the Annual Report

7.2 Cache Creek Conservancy (CCC)

7.3 Yolo County Resource Conservation District (RCD)

7.4 Yolo County Flood Control and Water Conservation District (YCFCWCD)

7.5 Mercury Report (Tuttle)

8. REGULAR AGENDA (10:45 AM-12:00 PM):

8.1 Off-Highway Vehicle Park Planning Grant (Staff)

8.2 Aerial Survey Scope of Work Status Update (TAC, Staff)

8.1.1 2010/2011 aerial survey- left over data availability

8.1.2 Suitability of 2008 LIDAR data from DWR

- 8.1.3 Sample scopes from other organizations
- 8.1.4 Partnership opportunities for next aerial survey
- 8.1.5 Previous aerial survey deficiencies
- 8.1.6 Consultant for scope of work and specifications
- 8.1.7 Volumetric analysis – delete from contract and conduct in-house?

8.3 Prioritize 2012 TAC recommendations and integrate with previous years recommendations (TAC)

Attachment A. 2011 TAC Recommendations

Attachment B. 2012 TAC Recommendations

8.4 Large Scale Restoration Opportunities (Martin)

8.5 Receive TAC member updates (TAC)

9. NEXT MEETING: APRIL 8, 2013

9.1 Future Agenda Items

10. ADJOURNMENT:

Respectfully submitted by,

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CACHE CREEK TECHNICAL ADVISORY COMMITTEE (TAC) DRAFT SUMMARY MINUTES

MONDAY, JANUARY 14, 2013, 10:00 AM

County Administration Building, Board of Supervisors Chambers
625 Court Street Woodland, CA 95695

1. CALL TO ORDER

The meeting was called to order by Dr. Eric Larsen about 10:05 am.

Roll call: Dr. Eric Larsen (TAC Fluvial Geomorphologist)
Dr. Mark Tompkins (TAC Hydraulic Engineer)
Jim Martin (TAC Biologist)

Staff: Cindy Tuttle, Natural Resources Program Manager
Elisa Sabatini, Natural Resources Program Coordinator

Others: See sign-in sheet (attached)

2. APPROVAL OF AGENDA:

After an overview of the agenda by Dr. Larsen the agenda was approved. Dr. Larsen noted that agenda item 7.1.4 was listed in error and would not be discussed at this meeting. The Annual Report is not scheduled for review by the Board of Supervisors until January 15, 2013.

3. INTRODUCTIONS

Individual introductions of the meeting attendees were made.

4. ADOPTION OF MINUTES OF THE NOVEMBER 19, 2012 MEETING

The summary minutes for the November 19, 2012 meeting were adopted as submitted.

Ms. Tuttle requested a few minutes to discuss a new system available in the Board of Supervisors Chambers that can broadcast an audio recording of the TAC meeting proceedings and post the audio on the County's website. After several minutes of discussion the TAC agreed that they have no objections to being recorded and would like to try the new system, however, the TAC asked that staff continue to prepare summary minutes for each meeting.

5. PUBLIC COMMENTS

Frank Goddard (Cache Creek Conservancy Board member and Cache Creek area property owner) requested to address the TAC about bank erosion at Huff's Corner (RM 11.6). Mr. Goddard has noticed some erosion and sloughing at the top of the bank over the last few weeks and wanted to bring it to the TAC's attention.

Ms. Tuttle explained that the erosion was likely related to the road drainage and that that section of levee was under the purview of the County's Planning and Public Works Department (PPW). Mr. Goddard's photos and concerns have been sent to PPW for follow up. Staff will track and report back as necessary.

Dr. Tompkins noted that the TAC had recommended a channel maintenance project at Huff's Corner in the 2012 Annual Report.

6. FOLLOW-UP ITEMS:

Parking Lot:

1. Vehicles left abandoned on flood plain – (Submitted to RWQCB)
2. Barn structure falling into Cache Creek (Reynolds Property) (Submitted to RWQCB)
3. Look for funding for signage regarding fishing due to mercury presence. (Staff)

Action Items:

1. Invasive Species Mapping During Removal by Cache Creek Conservancy (To be discussed Spring 2013, Staff and Martin)
2. Biological baseline and Biological Update for 5-Year Survey (In process, Staff and Martin)
3. Baseline DTM data: Mr. Randall provided the 1997 DTM data to Dr. Larsen. Dr. Larsen to determine if that data is useable. If not, Dr. Larsen to contact John Perry regarding using 1996 aerials to develop a baseline DTM. (Larsen)

Dr. Larsen noted that Action Items #1-3 are tied to regular agenda items 8.1 and 8.2 and would be discussed later in the meeting.

4. Obtain new hydrology that is now available through Fran Borcalli (Tuttle)

Dr. Larsen has a list of data requests pending with the State and will add this item to that list. Dr. Tompkins will follow up with Wood Rogers.

5. Schedule half-day Creek Walk prep session in March/April 2013 (Sabatini)

Tied to regular agenda item 8.3

6. Obtain copy of original Palisades construction study (Sabatini)

Several requests have been made to obtain this data from PG&E. Staff will keep trying.

7. Update draft Water Quality Protocol recommendations to cite the goals, objectives, actions, etc. from the CCRMP (Tompkins)

Completed

8. HEC-RAS Model (Larsen)

Dr. Larsen is working on this with Wood Rogers.

9. Prioritize 2012 TAC recommendations and integrate with 2011 recommendations (TAC)

Add to future agenda; possibly February's agenda.

7. STAFF UPDATES

7.1 Natural Resources Division

Jim Martin reported that staff has taken the lead on following up on the Section 7 consultation with the USFWS and the Section 106 consultation with SHPO. He indicated that the RWQCB will likely wait on reissuing the 401 Certification until the Corps has completed its review.

The TAC noted that the State Department of Fish and Game has changed its name, effective Jan 1, 2013, to the California Department of Fish and Wildlife. Staff will update documents and correspondence accordingly.

Ms. Tuttle reported that there was nothing new to report on the SMARA Compliance but that it was listed as a placeholder for future discussions/reports.

Ms. Sabatini reported that an internal draft of the ambient mercury study was expected in mid-February.

Ms. Sabatini also reported that staff planned to make progress on the background items for the Parkway Plan this spring.

7.2 Cache Creek Conservancy (CCC)

Lynnel Pollack, Executive Director of the Cache Creek Conservancy, provided the following updates:

- *Most of the work currently underway in association with the OHV grant is taking place at Wild Wings.*
- *An ecology class from UC Davis will be using the Nature Preserve for an ecology project this spring.*
- *A UCD graduate student will be conducting a water balance study on the wetlands this spring.*

7.3 Yolo County Resource Conservation District (RCD)

Jeanette Wrynski, Executive Director of the RCD, provided an update. ARRA funding is winding down and work in Cache Creek has slowed down accordingly. Ms. Wrynski also reported that the RCD's application for NFWF funds for invasive species was denied. She said that the RCD is exploring other funding opportunities and welcomes suggestions.

7.4 Yolo County Flood Control and Water Conservation District (YCFWCWD)

Max Stevenson reported that water conditions are good so far this year. He also reported that the YCFWCWD is looking at grant funding to study infiltration rates on canals.

Mr. Stevenson reported that there have been some recent updates to the on-line Water Resources Information Database (WRID). The YCFWCWD is checking the new interface and aims for a February completion of associated tasks. Once these tasks are complete they will move onto Phase II of the project.

7.5 Mercury Report

Ms. Tuttle reported on the status of the WRA contract with Dr. Stephan McCord. She also reported on a recent court ruling pertaining to TDMLs and storm water.

8. REGULAR AGENDA

8.1 Review Scope(s) of Work for Aerial Survey and 5-year Vegetation Survey & Map (TAC)

The aerial survey is conducted to collect several types of data including LIDAR, infrared, aerial photographs, etc.

After extensive discussion it was decided by consensus that the TAC is not technically qualified to rewrite the Scope of Work (SOW) for the next aerial survey. The TAC noted the need to vet the SOW to ensure that the next aerial survey provides the County with the data it needs in an acceptable format. A determination as to when the next survey will be flown will be made at a later date in conjunction with:

- *Staff to contact 2010/2011 aerial survey vendor to see if the vendor can reclip the data to include any area shot outside of the CCRMP boundary. (i.e., if they over shot the aerial data). If they do, can the County obtain it?*
- *Staff working with Jim Martin will determine if the 2008 LIDAR data provided by DWR is useable/useful for our purposes.*
- *Staff to investigate other organizations SOWs for similar contract work.*
- *Staff to investigate whether any other organizations would partner with the County and share the cost and data of future aerial surveys.*
- *Jim Martin will contact the TAC's previous biologist to discover what, exactly, the shortcomings of the previous aerial surveys were.*
- *Staff will investigate experts to review/assist with Scope of Work*
- *Consider deletion of volumetric analysis from the aerial survey Scope of Work and conduct in house utilizing Marcus Neuert instead*

8.2 Baseline DTM Analysis (Larsen, Neuert)

Dr. Larsen and Marcus Neuert (Yolo County IT) reported that Mr. Neuert was able to convert test samples of older data for comparison with the 2010 data. The samples worked great and they will move forward with converting all of the older data.

8.3 2013 Creek Walk

8.3.1 IT/GIS Overview (Neuert, Sabatini)

The TAC supported staff's recommendation to purchase three (3) iPads for use on the Creek Walk. Staff will provide a pre-walk training session and there will be paper/hard copy back-ups to ensure that the Creek Walk is successful.

Mr. Neuert will explore various applications for fieldwork and report back on the pros and cons of using stored data versus streaming data. Mr. Neuert and Ms. Sabatini will move ahead with testing connectivity in the field. They will also explore various cases and filters to minimize glare in the field.

8.3.2 Set date for Creek Walk Prep Session (TAC)

The Creek Walk Prep Session has been scheduled for March 22, 2013.

8.3.3 Set date(s) for Creek Walk (TAC)

The Creek Walk has been scheduled for May 8-10 with May 22-24 reserved as backup dates.

Staff to investigate the potential of utilizing a boat float for the 2014 creek walk.

8.4 Receive TAC member updates (TAC)

9. NEXT MEETING: FEBRUARY 11, 2013

9.1 Future Agenda Items

- Review/Report on data suitability from items 8.1 and 8.2
- 2012 TAC Recommendations – prioritize and integrate with 2011 recommendations (TAC)
- Large-scale restoration opportunities (Martin)

Respectfully submitted by,

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2011 PROGRAMMATIC AND CHANNEL IMPROVEMENT PRIORITIES

The 2011 Cache Creek Annual Status Report included recommendations based on physical, hydrologic, and biological assessment of Cache Creek, with guidance from the CCRMP. These recommendations form the analytical basis for TAC activities and the determination of channel improvement projects during 2012.

	Description	Discipline	Effort
2011.G.A1.1	HEC RAS modeling CCRMP reach completed and analyzed, and compared with 1996 conditions if possible.	GEO	MAJ
2011.G.A2.2	Estimate the annual rate of channel bed aggradation over time.	GEO	MAJ
2011.G.A3.3	annual aerial survey contract and scope of work should be amended	GEO	MIN
2011.G.A4.4	Continue to monitor actively migrating bends , and use a predictive model	GEO	MOD
2011.H.A1.5	Complete review of hydrology and water quality objectives in CCRMP	HYD	??
2011.H.A2.6	Review Cache Creek water quality data base and identify duplication of effort.	HYD	??
2011.H.A3.7	Prioritize and/or eliminate constituent testing based on 1 and 2 above	HYD	??
2011.H.A4.8	Continue to monitor contaminants of concern in creek water based on water quality database review and prioritization described above.	HYD	??
2011.H.A5.9	Continue groundwater monitoring near Cache Creek, incorporating data from mining sites	HYD	??
2011.B.A6.10	Complete methylmercury monitoring and analysis in the CCRMP study area. Consider additional partnerships to monitor and analyze methylmercury	BIO	
2011.B.A1.11	Continue to work with County staff and the aerial contractor to further refine and classify vegetation	BIO	??
2011.B.A2.12	The CCRMP boundary should be updated	BIO	??
2011.B.A3.13	Coordinate with full TAC in 2012 to identify areas and sites best suited for natural regeneration of riparian and upland habitat conditions	BIO	??
2011.B.A4.14	Continue to participate in the Cache Creek Watershed Wide Invasive Management Plan	BIO	??
2011.G.A.15	Channel shifting patterns near RM 26.4 should be actively monitored	GEO	MIN
2011.G.A.16	Bank erosion at RM 26.9 on the south bank ... continued engagement with PGE	GEO	MIN-MOD
2011.G.A.17	The bank retreat patterns near RM 25.4 -25.5, RM 22.0, and RM 20.6 for regeneration of riparian habitat .site-specific small scale revegetation plantings explored.	GEO	MIN-MOD
2011.G.A.18	Active bank retreat near RM 21.6 (near the old Madison Bridge) but should be monitored in 2012.	GEO	MIN
2011.G.A.19	Significant erosion at the I-505 crossing. should be assessed vegetation should be removed in order to protect the bridge piers.	GEO	MIN-MOD
2011.G.A.20	Replace dead arundo and tamarisk in the Capay Reach with native plantings.	GEO	??

	Description	Discipline	Effort
2011.G.B1.1	Update reach descriptions using updated values for all channel characteristics. Standardize the reach endpoint descriptions.	GEO	MIN-MOD
2011.H.B1.2	Continue to pursue partnerships to install continuous turbidity monitoring	HYD	??
2011.B.B.3	Mapping protocols should be developed to define the procedure and schedule for mapping vegetative cover within the CCRMP study area	BIO	??
2011.G.B.4	Complete HEC-RAS modeling of the Huff's corner area, and a comparison with the 1996 100-year flood capacity.	GEO	MIN-MOD
2011.G,H.B.5	The flood conveyance at the I-505 bridge: Coordinate with CALTRANS and stakeholders, and complete hydraulic modeling to determine before- and after-skimming water surface elevations if the bar were skimmed.	GEO HYD	MIN-MOD
2011.H.B.6	Implement water temperature monitoring by placing water temperature data loggers in each reach.	HYD	??

	Description	Discipline	Effort
2011.G.C1.1	Sampling the bed surface material	GEO	MIN
2011.G.C2.2	Develop a protocol and sampling schedule to measure bed armoring	GEO	MIN
2011.B.C.3	Undertake more detailed ancillary wildlife assessments in conjunction with field work.	BIO	??
2011.G.C.4	Channel bank retreat upstream from Moore's Siphon near RM 18.1 should be monitored.	GEO	MIN

TAC Recommendations from 2012 Annual Status Report

Tracking No.	Description	Discipline	Effort	Status
	The increased mercury concentrations detected in the 2012 surface water quality sampling need to be communicated to ongoing mercury studies in the Cache Creek Watershed and evaluated in the 2013 surface water quality monitoring to determine if elevated concentrations have persisted	Hydrology		
	Historical analysis on movement/migration of the vehicle boneyard (south bank RM 26.6)	Hydrology		
	Water Quality Impact Catalogue and associated source and contaminant potential assessment	Hydrology		
	Assessment of bar skimming in the following locations: RM 26.1, 25.5, 21.6, and 20.3-20.5	Geomorphology		
	Establish a high-flow triggered channel and vegetation monitoring plan for I-505 bridge	Geomorphology		
	Establish a high-flow triggered bank stability monitoring plan for the south bank at the Cemex Slope Protection Project (Is this the same as RM 19.5 recommendation below?)	Geomorphology		

Not prioritized or integrated with recommendations from prior years

TAC Recommendations from 2012 Annual Status Report

Tracking No.	Description	Discipline	Effort	Status
	Channel maintenance project at RM 12.35 to prevent the recruitment of foreign material into the Creek (pull debris back from creek bank)	Geomorphology		
	Channel maintenance project at Huff's Corner (RM 11.6)to prevent downstream unraveling of existing bank protection	Geomorphology		
	Update and maintain geo-spacially referenced photo log for use on future Creek Walks and to document on-going changes and conditions on the Creek	Hydrology		
	Repair levee and bank erosion at RM 19.5 (Is this the same as south bank of the Cemex Slope Protection project?)	Geomorphology		
	Remove berm/cemenet barrier at Correll-Rodgers	Geomorphology		
	Create Creek Walk protocol	All		

Not priotitized or integrated with recommendations from prior years