



River Corridor Working Group Meeting Notes

Wednesday, June 1, 2016
9:00 AM – 11:00 AM

Location: CWSD Conference Room

Contact: Brenda Hunt, 887-9005

Attendees:

- Peter Benchetler, Cardno
- Bunny Bishop, NV Dept. of Water Resources (NDWR)
- Craig Burnside, Carson Valley Conservation District (CVCD)
- Tod Carlini, Douglas County Fire Dept.
- John Cobourn, University of Nevada Cooperative Extension (UNCE)
- Julie Fair, American Rivers
- Gavin Feiger, Alpine Watershed Group (AWG)
- Robb Fellows, Carson City Public Works (CCPW)
- Shane Fryer, Carson Water Subconservancy District (CWSD)
- Michelle Hockrein, Washoe Tribe
- Kelly Huck, Lahontan Regional Water Quality Control Board (LRWQCB)
- Brenda Hunt, CWSD
- Ed James, CWSD
- Shyla Lemons, CCPW
- Steve Lewis, UNCE
- Erik Nilssen, Douglas County
- Terri Pereira, Churchill County
- Brian Peters, Alpine County
- Jean Stone, NV Div. of Environmental Protection (NDEP)
- Mary Kay Wagner, NDEP
- Courtney Walker, Douglas County
- Rich Wilkinson, Carson City Parks, Rec., & Open Space
- Dave Willard, NDWR

1. Welcome and Introductions (10 min) -
2. Update on MAS 1-3, Flood Modeling Effort for the Carson Valley Reach (Mitch Blum-HDR) (15 min) –
Mitch wasn't able to be present. EdJ presented instead
MAS 1,2,3 – Current Mas 6, on mas 7
1 Lyon County – Guages Deer Run to Elementary school – Completed
2 Carson City Reach – waiting 90 day process
3 Douglas and Carson – Modeling done – Army Core still need to release model –
Trouble accounting - tributary flow 50% of the volume during big flows coming from pine nut, clear creek others not the Carson
Graph was shown -
Video was shown of 100 year event

3. Discussion Regarding NV Clearing and Snagging Projects (Jean Stone) (30 min) –
Presenting Jean Stone
Summarized efforts above rocky
Emergency de-snagging effort -
Mastication and veg removal
ACore no 404 and no 401 from NDEP – Division of state lands approved
Rolling stock permits -working in waterway

Most of the sand bars trough Virginia Rocky Diversion removed
Tod Carlini led review
Fill was discharged requiring 404
Letter of violation will be issued CVCD

The channel was straitened – was not in the plan, no written plan
32,000 yards removed
Snagging should not be used to manage high flood events (during review EJames)

Fill was used to block off meanders resulting in the violation

Concern – Downstream hardened bank, has resulted in erosion to tribal property.

Straitening river – increases velocity – which could lead in degradation. Inter fluve report hopes beds are armored enough to limit down cut but could be an issue.

Most of fill was removed during a May 2 year flood event – 60% of flow has gone back to meanders, predicted more in the future.

EFFD eastforkfire.org - Future de-snagging has identified for bridges and other infrastructure
Biggest thing is we need a written plan for review

Do we need more education? Disturbance like this won't return function to river
Question do we need to remove sandbars, need to better model hazards –

Fill will be used – for streambank stabilization and road fill. All fil will be eventually removed

Intrefluev – states that 100yer event could be held by the current incised channel.

-Ejames / clearing and snagging was meant to maintain channel function – not flood protection.

Clearing and snagging – doesn't necessarily mean the sandbars need to be removed
Virginia rocky –

Need to watch site to ensure no head cutting –
Downstream has grade control (dam)

What would to cost of a plan be?

If trees and vegetation need to be removed to save a bridge fine, but meanders and point bars need are the way the river heals itself. –

Tribe is ok with river occupying flood plain. However it recharges the ditch? Needs to be protected along with tribal buildings.

Not just the hospital, but 2 long term care facilities and many commercial buildings –

The AAR report will be posted – The AAR has 8 recommendations to improve communication include defined scope and change orders.

Rolling stock, working in waterway permit – state permit.

Coburn- cumulative impact – if we are going to review individual projects, we need to study the cumulative impact and see if there will be any adverse projects.

Look at projects, and how they interact with the model. Does the model prioritize the projects.

Updates on FEMA MAS 4-6 – 6 (30 min)

MAS 4:

- a. Model procedure and protocol (Mitch) –

Procedure and protocol may address future projects

How often do we need to update the model for growth infrastructure and development and other changes.

- b. Floodplain Mitigation Measures (Brenda) –

Hand in hand with changes in ordinances –

2 types – specific projects (ex build if floodway)

FEMA related. Ex Community rating system points (CRS)

MAS 5: (Ed/Others)

- a. Smelter Creek Study –

Completed RO Anderson – look at retention basins. Looked at cost to do project is cheaper than insurance fees.

Grant 100 homes from flood 100year-

Goes to the community to see if they would rather be assessed for the structure, instead of pay insurance

Residents can't cash in insurance until after it's built

Let home owners know that they may want to still pay the new reduced ins rate

- b. Alpine Estates Floodplain Restudy and Remapping -

Mapping is complete – trying to go through LOMAR process

- c. Eagle Valley A & B Drainage Restudy and Remapping -

Mapping is complete – trying to go through LOMAR process

Hwy. 50 flood way – do we want to keep it (unlikely)

d. Churchill County Flood Study -

Looking at water go through V line – Study complete to send flood waters in to the desert

e. Carson River Flood Inundation Mapping -

Tool to show where does the water go – it's good for emergence services, where to stage. Depth and where waters going to go

NOAA website will host and driven by stream gauge data
Lyon county and Carson Valley will be more snap shots

f. Flood Awareness Week (November 14-19, 2016) -

August 2nd (Big night out) – bring out flood plain model
Looking for other ideas. FB and website updates

MAS 6: (Ed/Others)

a. Stephanie Lane Drainage Study -

Retention basin – look at flooding down Stephanie Way -RO Anderson
June report to board – 90% done
It's expensive and not in flood area

b. Goni Creek Floodplain Restudy and Remapping -

Get going after July – passing info to consultant

c. Ramsey Drainage Restudy and Remapping -

Silver Springs – with the bypass coming through.
Will flood plains change by looking at new model

d. Carson City Flood Inundation Mapping -

Complete in Sept – Kimberly Horn- Airport

e. Floodplain Public Outreach Videos or Floodplain Ordinances -

Shifting funds to July

4. West Fork Restoration – Hope Valley (Julie Fair- American Rivers) (10 min) -

Work in HV and Alpine County –
JF- American Rivers CA regional office
Meadow restoration – HV 2012
Also road removal

USFA ½ - some DFW land 1600 acre project
After starting work – started looking at other projects
Developed meadow score card to look at the Carson wf
AWG, HOFV, USFS

Meadows are the flood plain of the Sierra – similar issues – erosion, incision and disconnect
Want inundation for habitat

Now incision, and lack of riparian.

Slow recovery (25years of no grazing, beaver are helping)

Decided on light approach to utilize natural recovery

Stabilize bank, establish riparian, meander cut off protection

Developed crib structure to protect banks, with willow planting

FOHV willow planting for 20 years, with success.

Toe stabilization, caving banks sometimes collapse and stabilize. Try to recreate the process. Need to anchor to

Cut off is being cased by hardened blue creek road. Use crib and rocks to prevent cutoff

Flood plain benches in 2 example sites

Meadow condition score card, developed by many collaborators. Quick assessment specific to meadows to complete in a few hours.

Walk channel – bank height, erosion, veg type, head cuts, bare ground, encroachment

Working with private land owners tough

Working toward prioritization no

USFS West fork NEPA process –

5. Announcements (Everyone) (20 min)

- a. CRC Environmental Education Roundtable Meeting follow-up -
End of April – Wrap up follow up
Informed Water lit program
Marketing co plan being finalized – looking at next steps
July 11th please attend
Request for proposals in mid-July
Request for information for other proposals especially projects in plans
- b. NV 319 Grant Proposals/ who is applying for what? -
With TMDLs could open funding for upper watershed projects
- c. Watershed MS4 update -
Interest in reconvening (last about a year ago)
No future date yet but could revive

- d. Q1 Potential Projects -
 - 10 million marked for Carson corridor
 - Ev enhancement, purchase, easements
 - 1 for 1 match
 - 3.5 million available

- e. FEMA MAS 7 Grant Application -
 - Submitted
 - Carson City area mapping
 - Flood awareness week
 - Update discover process
 - Storm drainage study in Douglas County

- f. NDOT Stormwater Program -
 - Up and running? Hiring?
 - Most managers are in place
 - Need to reach out – Kim Smith (P info officer)

- g. Carson City Stormwater Management Plan update (Robb/Shyla) -
 - Storm water program (NDEP) wanted a regional program, but moving forward on adopt a watershed in Carson Valley, and LID
 - MS4?
 - Summer comment period, to board in summer to adopt.
 - LID ordinance in place in a few years or sooner.
 - Hope to have it out soon to public

- h. Lahontan TMDL of West Fork -
 - Kelly – Lahontan
 - West Fork Carson TMDL – in beginning – planning
 - Starting collaboration – NDEP already has tmdls on E W Carson

 - Parameters : nutrients, bacteria, sulfates

- i. Others –
 - Bus tour next week –

 - LCT – are spawning at Heenan Lake

 - Events:

 - Will doodle!

6. Schedule Next Meeting -