

JEWEL LAKE STUDY TILDEN NATURE AREA

PUBLIC WORKSHOP #1 SUMMARY PACKET October 20, 2021 via ZOOM

Approximately 53 members of the public joined a public workshop held online from 6:30 to 8pm on October 20, 2021.

The workshop was divided into a presentation and question and answer session. The presentation covered the watershed history, four conceptual plans, and decision matrix, and conceptual-level project costs.

This summary packet includes:

- Workshop notice
- Agenda
- Sign-in sheet
- Presentation
- Summary of questions

Staff will take the input from the community into consideration as the Study is developed. Staff anticipates having the Study recommendations ready to present to the Board of Directors in Winter 2022.

Below are a ways to receive information and participate in the Jewel Lake Study:

- Take the survey and provide feedback: <https://www.surveymonkey.com/r/SH6K7QR>
- Request to be placed on the Project e-mail mailing list
- Visit the Project website at the following link: <http://www.ebparks.org/JewelLakeStudy>
- For more information, please contact Scott Stoller, PE at [sstoller@ebparks.org](mailto:ssoller@ebparks.org) or 510-544-2316

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Jewel Lake Study
Public Workshop #1
October 20, 2021

Meeting Advertising and Outreach

The public meeting was advertised through the following methods:

1. Listed on Park District Facebook Page
2. Workshop Flyer – posted online and at Tilden Environmental Education Center
3. Park District Website – promoted on the website homepage for the week leading up to the meeting

facebook.com/events/677250969071007/ref=newfeed

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20

WEDNESDAY, OCTOBER 20, 2021 AT 6:30 PM – 8 PM

Jewel Lake Study: Public Workshop

Online Event

Details

1 hr 30 min

39 people responded

Event by **Tilden Regional Park, Tilden Nature Area and East Bay Regional Park District**

Public · Anyone on or off Facebook

The East Bay Regional Park District is hosting its first Jewel Lake Study public workshop via Zoom. The workshop will present the project to the public including site history, four developed conceptual plans aimed at meeting the project goals, and other work to-date completed for the Jewel Lake Study. There will be an opportunity for members of the public to ask questions, learn more about the process and the conceptual plans, and gain understanding of the study overall.

Jewel Lake, constructed in 1921 with an earthen dam across Wildcat Creek, has served generations of park patrons and provided habitat to native wildlife. The dam also traps large quantities of sediment that build up over time, reducing the lake's depth and volume and affecting public enjoyment and the wildlife that call it home. The current dam and lake also prevent rainbow trout from migrating upstream. The purpose of the study is to develop a preferred concept to move forward into design and construction, depending on available funding.

Jewel Lake Study Public Workshop #1
Wednesday, October 20, 2021, from 6:30-8:00 p.m.

Zoom Meeting Information:

bit.ly/3aO03JY

Meeting ID: 839 7076 4794

Passcode: 723901

One tap mobile dial-in option:

+16699006833,,83970764794#

More Info: www.ebparks.org/JewelLakeStudy

JEWEL LAKE STUDY

RESTORATION AND PUBLIC ACCESS FEASIBILITY FOR
WILDCAT CREEK'S JEWEL LAKE REACH



PUBLIC WORKSHOP #1

OCTOBER 20, 2021

6:30 - 8:00 PM via ZOOM

More Info and Meeting Link: <https://www.ebparks.org/JewelLakeStudy>



Public Workshop #1 will present the site history, four developed conceptual plans aimed at meeting the project goals, and other work to-date for the Jewel Lake Study. There will be an organized forum for interested public to ask questions and gain clarity around the process, the conceptual plans, and the study overall.

Jewel Lake, constructed in 1921 with an earthen dam across Wildcat Creek, has served generations of park patrons and provided habitat to native wildlife.

The dam also traps large quantities of sediment that builds up over time, reducing the lake's depth and volume, affecting public enjoyment and the wildlife that call it home. The current dam and lake also prevent native rainbow trout from migrating upstream.

The District recognizes Jewel Lake's complex history and its place in the landscape. Currently the District is studying periodic dredging and other sustainable long-term strategies to maintain a destination for public enjoyment and protect and enhance habitat for native species.

Project Contact:
Scott Stoller, PE
(510) 544-2316
SStoller@ebparks.org

AGENDA

- Introduction and Welcome
- Watershed History and Processes
- Project Concepts
- Question/Answer
- Next Steps

Jewel Lake StudyPublic Workshop #1
October 20, 2021

First Name	Last Name
1 David	Zuckermann
2 Beth	Newman
3 diana	Rixford
4 mark	hertz
5 E	Coode
6 May	Kandarian
7 Denny	Parker
8 Linda	Blachman
9 Rochelle	Nason
10 Pat	Donaldson
11 Kenneth	Epley
12 Mark	Bluestein
13 David	Edelson
14 dyan	whyte
15 Tanya	Eggers
16 elizabeth	vollmer
17 Lynn	Price
18 Matt	Perry
19 Sarah	
20 Ellen	Barth
21 Emma	Goodwin
22 Pam	Young
23 Michael	Saucy
24 Adele	Ho
25 Kathleen "Susie"	Claxton
26 John	Wallace
27 Travis	
28 N	landau
29 Tam	Tran
30 Brianna	Contaxis-Tucker
31 Marie	Arce
32 Sarah	Puckett
33 Noni	Zukin
34 peter	mangarella
35 Neil	Tsutsui
36 Larry	Farb
37 Keith	Winnard
38 Lisa	Carey
39 Bob & Barbara	Brandriff
40 Peter	Guerrero
41 JC	Backus
42 uta	swiatecki
43 Jacob	Carlson

Jewel Lake StudyPublic Workshop #1
October 20, 2021

First Name	Last Name
44 L	Casey
45 Barbara	Scheifler
46 Nancy	Rubin
47 Bill	
48 Susan	Schwartz
49 Kate	Bowman
50 Ron	Yourd
51 Laura	Cremin
52 Chris	Parry
53 Claude	Sprague
54 John	Holder
55 Edward	Culver
56 Karla	
57 Trail	Gail
58 Jonathan	Owens
59 Lisa	Goorjian
60 Joe	Sullivan
61 Matthew	Graul
62 Steven	Castile
63 Sara	Fetterly
64 Eric	Donaldson
65 Trent	Pearce
66 Jeanne	Hammond
67 Anthony	
68 Erik	Stromberg
69 Jim	Devlin
70 Jim	O'Connor
71 Scott	Stoller
72 Nelle	Donaldson
73 Anne	Kassebaum
74 Chris	Barton
75 Colin	Coffey
76 btuden	
77 Elizabeth	Echols
78 Dawn	
79 Dave M	

Tilden Nature Area: Jewel Lake Study
Restoration and Public Access Feasibility for Wildcat Creek's Jewel Lake Reach

Public Workshop October 20, 2021

www.ebparks.org/JewelLakeStudy



Si usted tiene alguna pregunta en español, por favor contacte John Holder / jholder@ebparks.org

AGENDA

- Introduction and Welcome
- Watershed History and Processes
- Project Concepts
- Question/Answer
- Next Steps

Si usted tiene alguna pregunta en español, por favor contacte John Holder / jholder@ebparks.org

Photo Credit: Nancy Rubin



STUDY TIMELINE

Fall 2020/
Summer
2021

Feasibility Analysis

- Inventory & Analysis, Conditions Assessment
- Staff to Staff Agency Stakeholder Outreach

Summer/
Fall 2021

Concept Evaluation

- Staff to Staff Agency Stakeholder Outreach
- Board Executive Committee Review
- Public Workshop #1

Fall/Winter
2021, 22

Study Findings

- Staff to Staff Agency Stakeholder Outreach
- Board Exec Review - consider preferred design concept
- Public Meeting #2

Winter/
Spring 2022

Board Consideration

- Board Review and Consideration
- Proceed with developing Preferred Concept

PURPOSE OF STUDY

ENHANCE NATURAL PROCESSES & HABITAT

- Enhance Native Species Habitat
- Provide Fish/Salmonid Passage
- Prevent Sediment Accumulation

MAINTAIN PUBLIC DESTINATION

- Maintain Level of Public Access
- Maintain / Provide a “destination”
- Maintain lake as open water

JEWEL LAKE HISTORY

- Drinking Water Reservoir Constructed in 1922
- Tilden/Wildcat Acquired in 1936
- Periodic Dredging to Maintain Open Water in 1967 & 1991



WATERSHED STUDIES

- 2001 Wildcat Creek Watershed Study
- 2010 Wildcat Creek Watershed Restoration Action Plan (WRAP)
- 2016 Watershed Sediment & Erosion Control Study
- Current Jewel Lake Study




Watershed Management

- Site vs. Situation
- Incorporate Dynamic Systems
- Holistic & Inclusive
- More than just water



Hydrology: Above Ground vs Below Ground

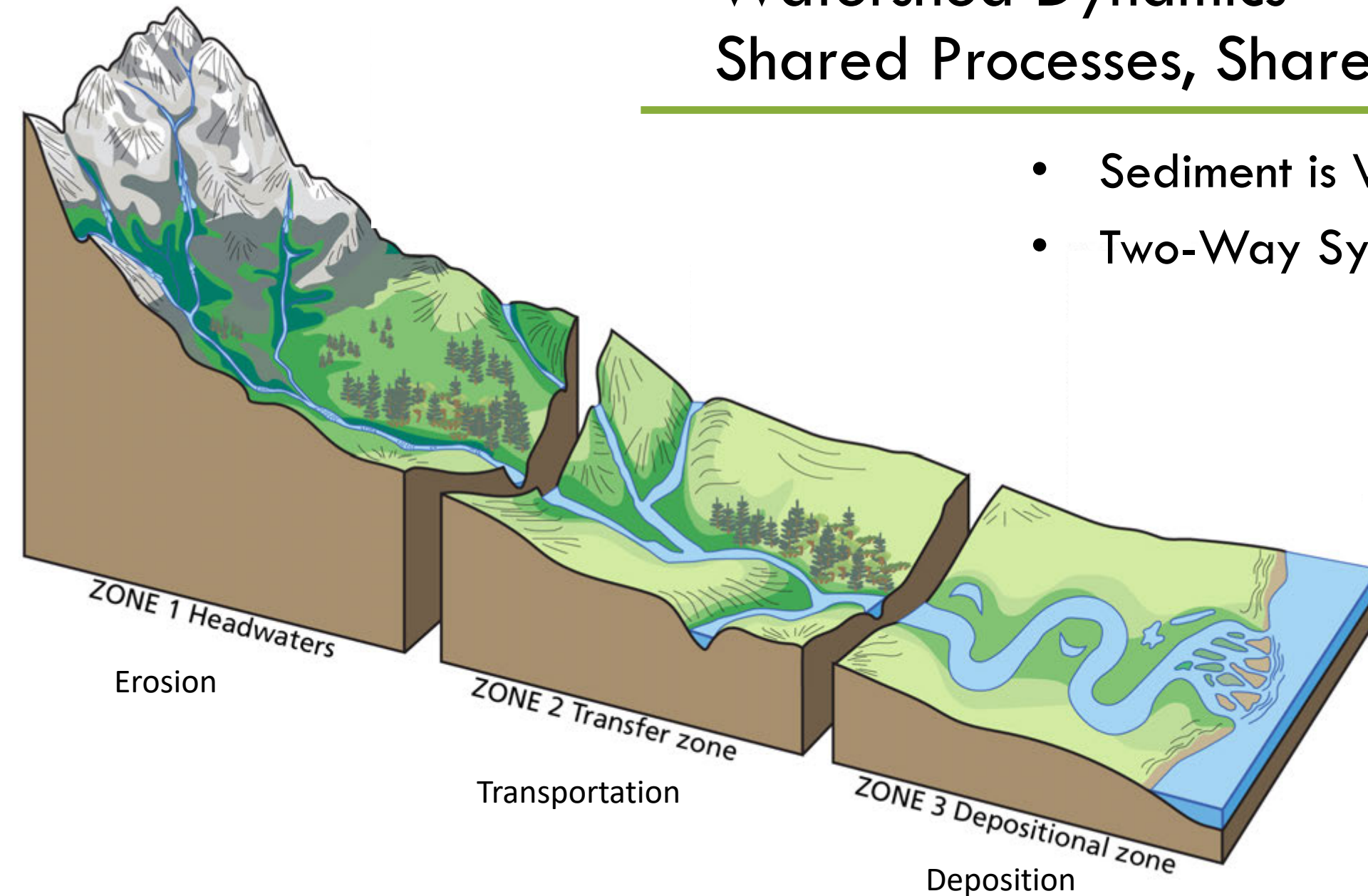
East Bay 
Regional Park District
Healthy Parks Healthy People

- Wildcat Creek (Above Ground)
- Creek (Above Ground)
- Culvert or storm drain (Below Ground)
- Coastline



Watershed Dynamics- Shared Processes, Shared Wealth

- Sediment is Watershed Wealth
- Two-Way System



Interrupting Natural Processes



Opportunity to Restore Natural Processes

Artificial Zone of Deposition

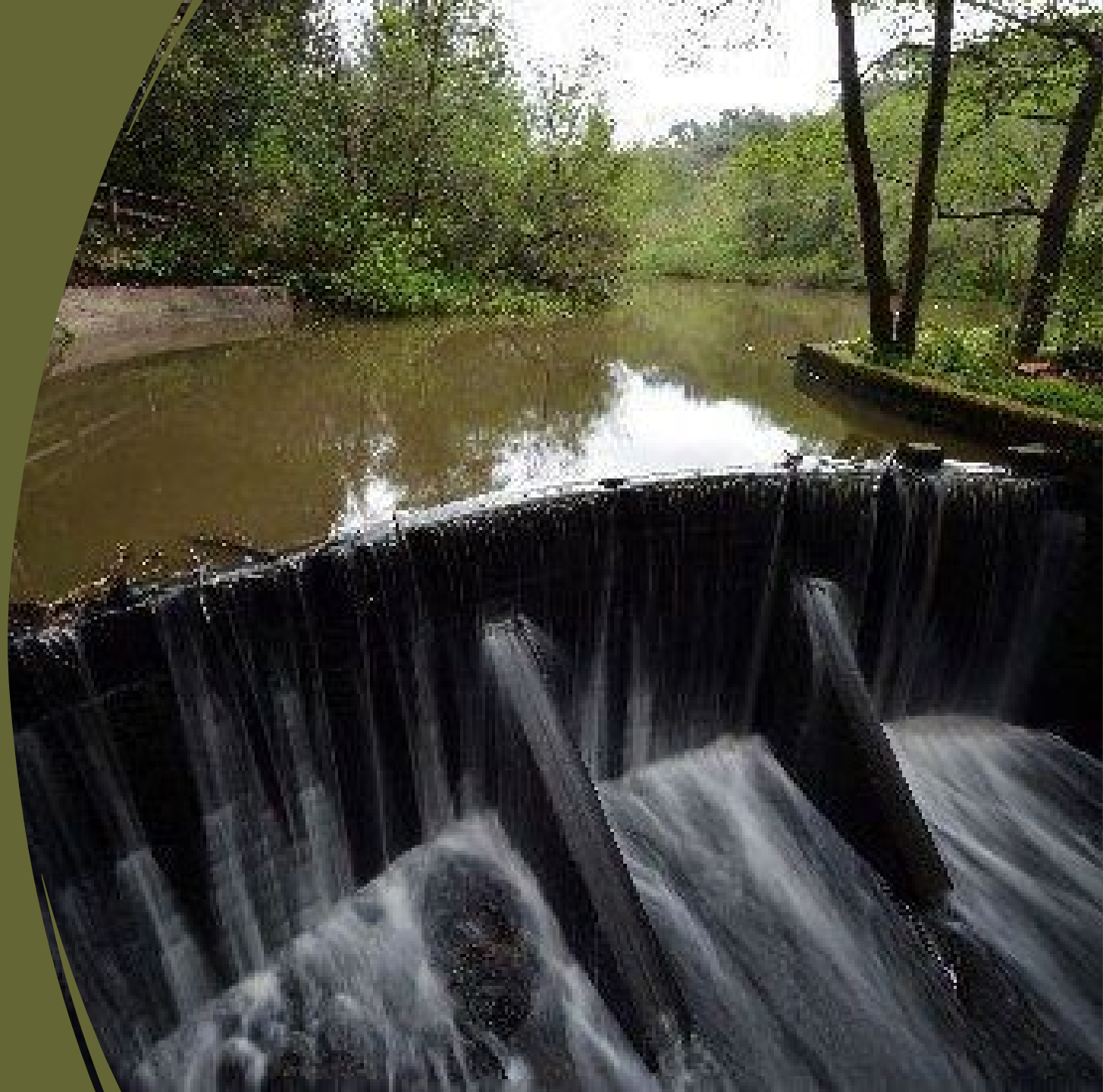


Artificial Zone of Erosion



Opportunity to Restore Natural Processes

- Artificial zone of deposition
- Artificial zone of erosion



Putting Sustainable Processes in Place

- Ecological
- Recreational
- Interpretive
- Accessible
- Inclusive
- Personal Connection

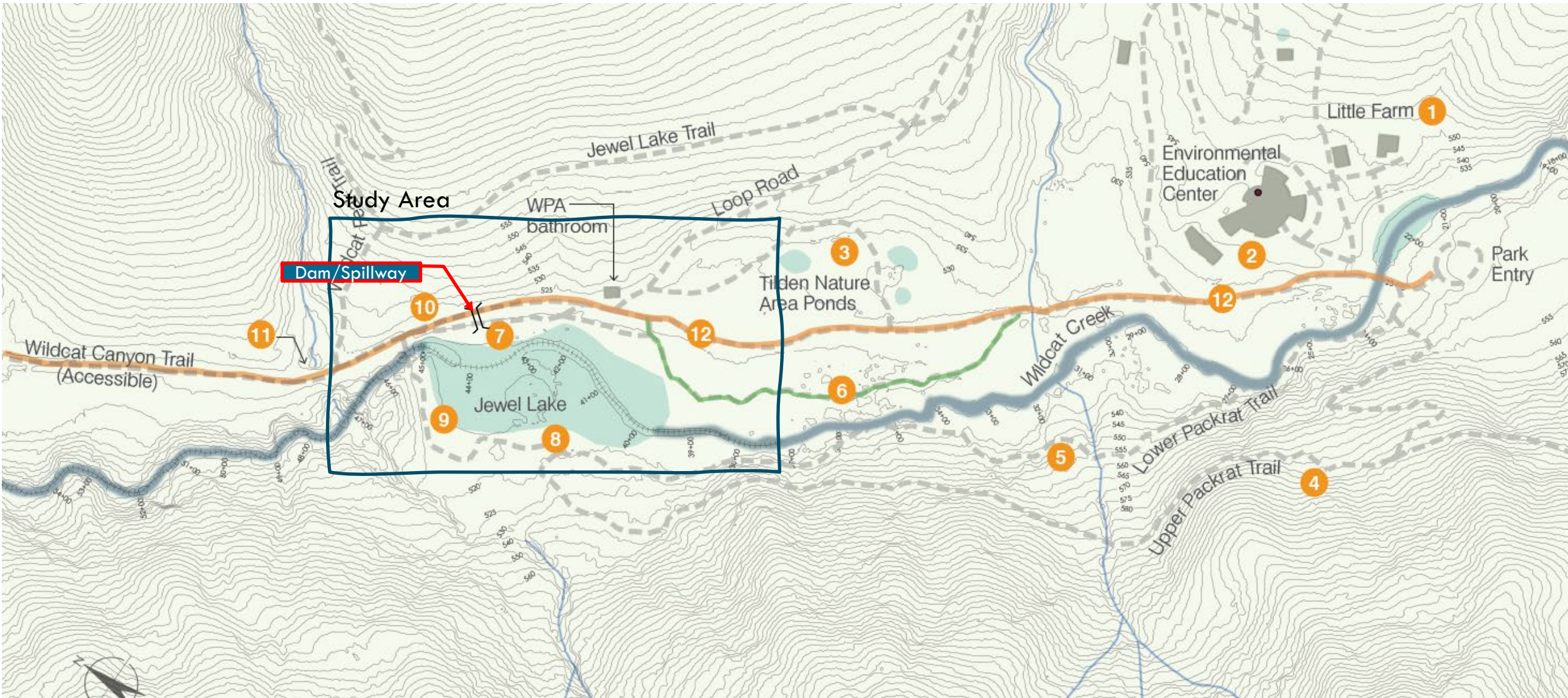


Jewel Lake Study Overview

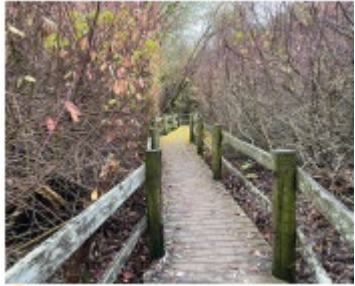
- Four Conceptual Designs
- Goals Matrix
- Concept-Level Cost Estimate



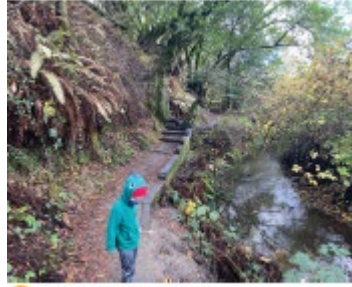
EXISTING CONDITIONS



EXISTING CONDITIONS



6 Boardwalk Trail



5 Lower Packrat Trail



4 Upper Packrat Trail



3 Tilden Nature Ponds



2 Environmental Education Center



1 Little Farm



10 Bridge & Dam



9 Dam Trail

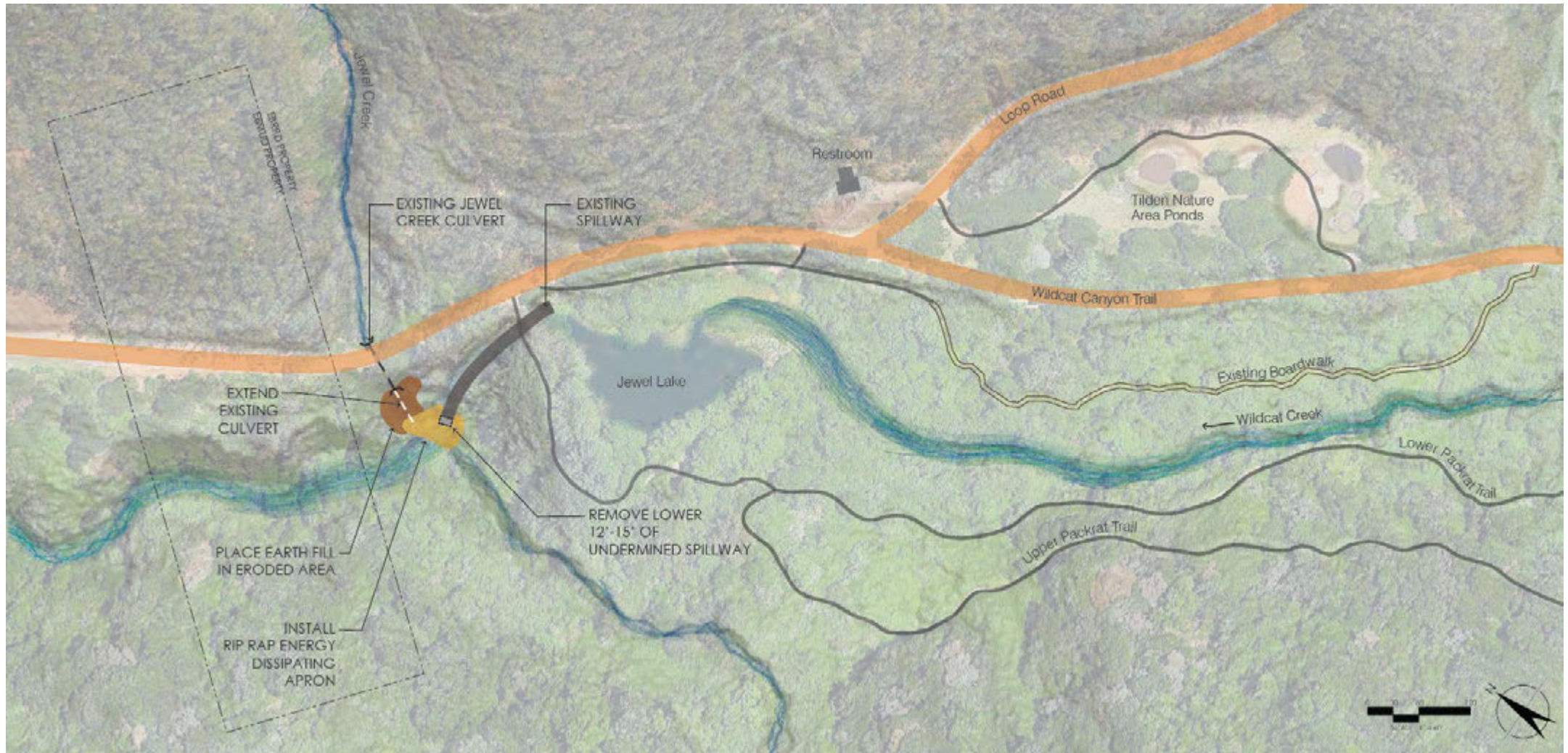


8 Jewel Lake (West side)



7 Jewel Lake Viewing Area (East side)

CONCEPT 1 – LAKE TRANSITIONS TO MEADOW



CONCEPT SUMMARY:

- The lake will continue to fill with sediment, transforming it to wet meadow, riparian, and other high value habitat types.
- No Changes to public access.

- EXISTING FIRE ROAD
- EXISTING BOARDWALK
- EXISTING FOOT TRAIL

CONCEPT 1 – LAKE TRANSITIONS TO MEADOW

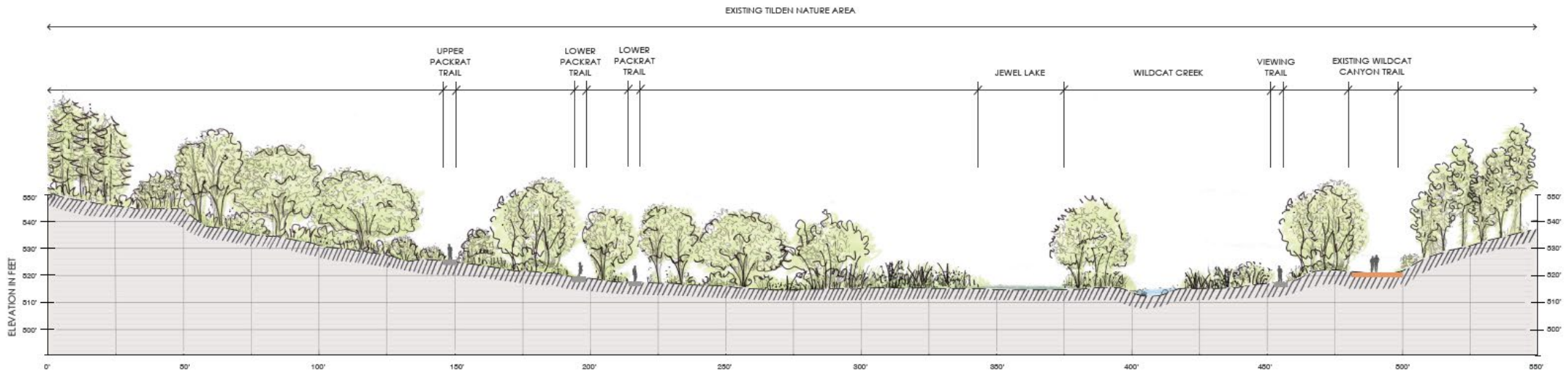
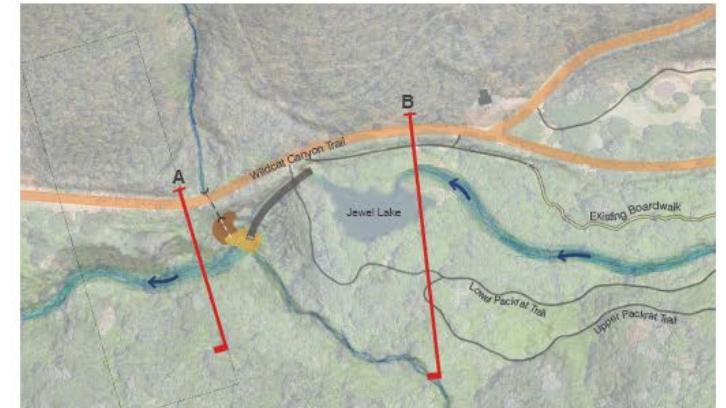
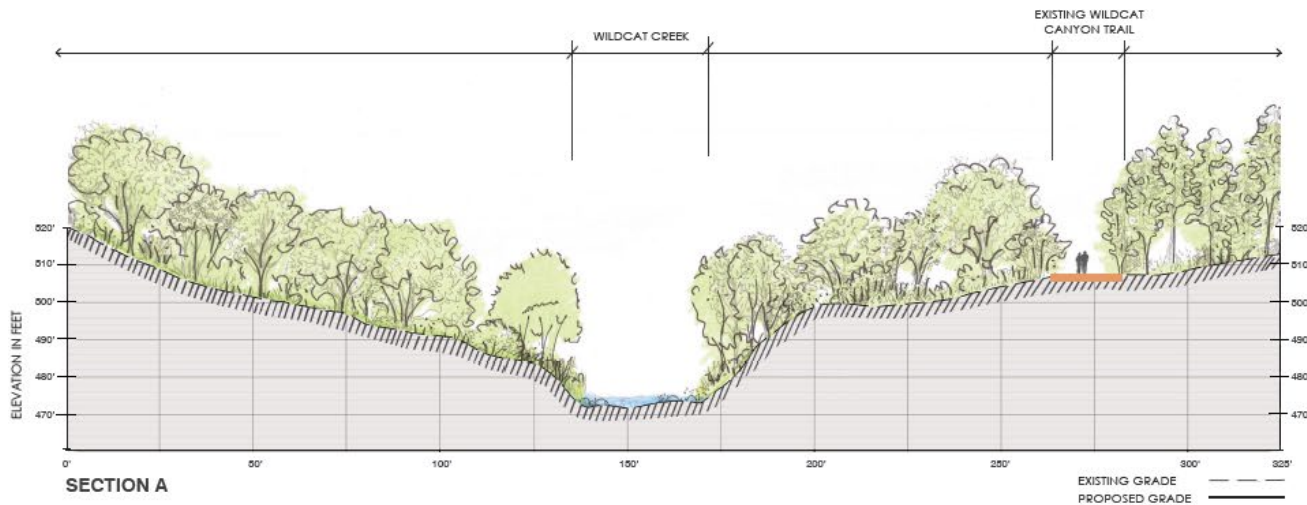
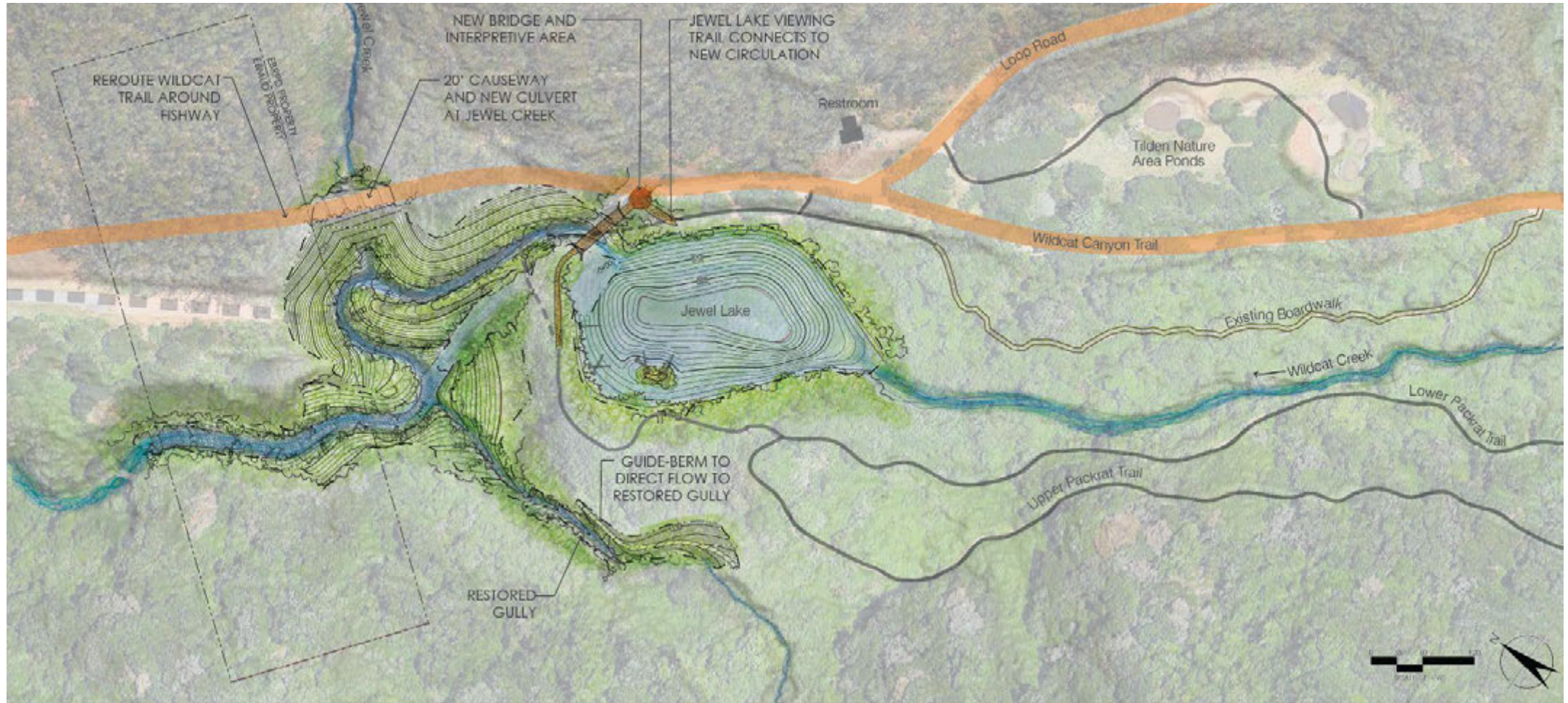




Photo Credit: Wendy Wheeler

CONCEPT 2 – MAINTAIN LAKE + FISHWAY



CONCEPT SUMMARY:

- Periodically dredge Jewel Lake to maintain open water.
- Construct a fishway to enable fish passage.
- Reroute Wildcat Creek Trail around fishway.
- Reconstruct bridge at dam.

	PROPOSED BOARDWALK		EXISTING FIRE ROAD
	PROPOSED FOOT TRAILS		EXISTING BOARDWALK
	PROPOSED BRIDGES		EXISTING FOOT TRAIL
	PROPOSED TRAIL PULLOUTS		DECOMMISSIONED FOOT TRAIL
	GRADING LIMIT		DECOMMISSIONED FIRE TRAIL

CONCEPT 2 – MAINTAIN LAKE + FISHWAY

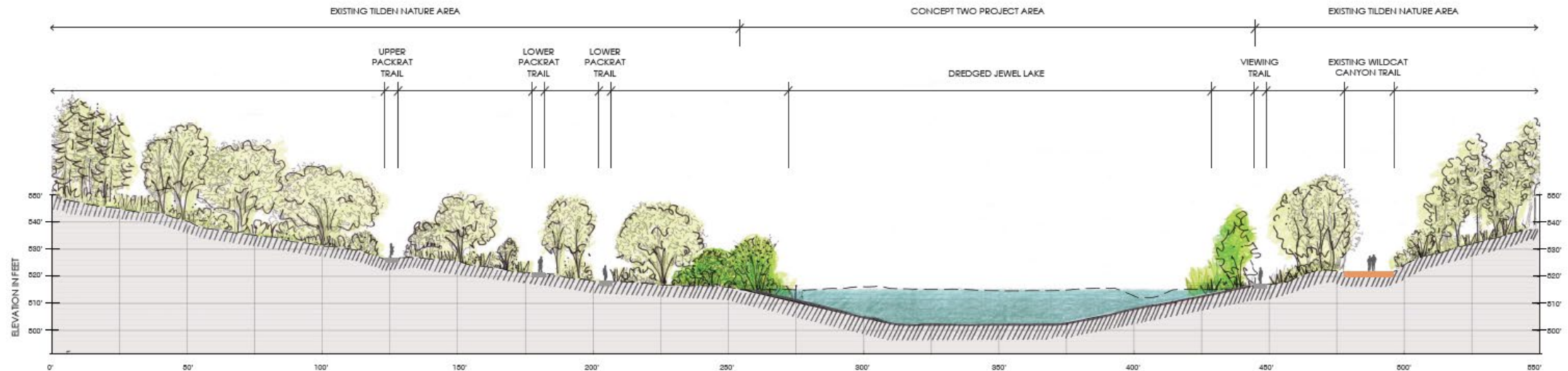
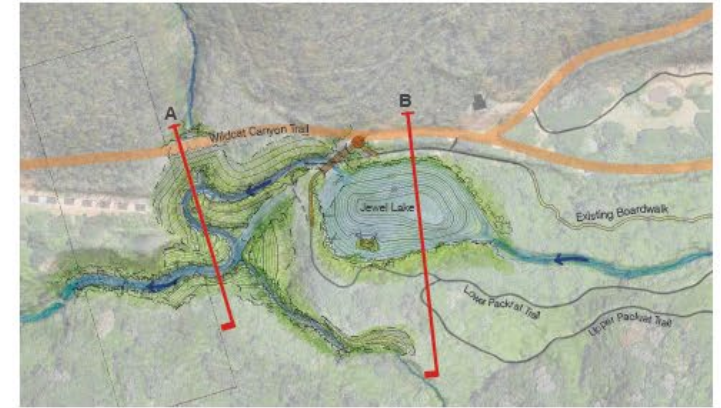
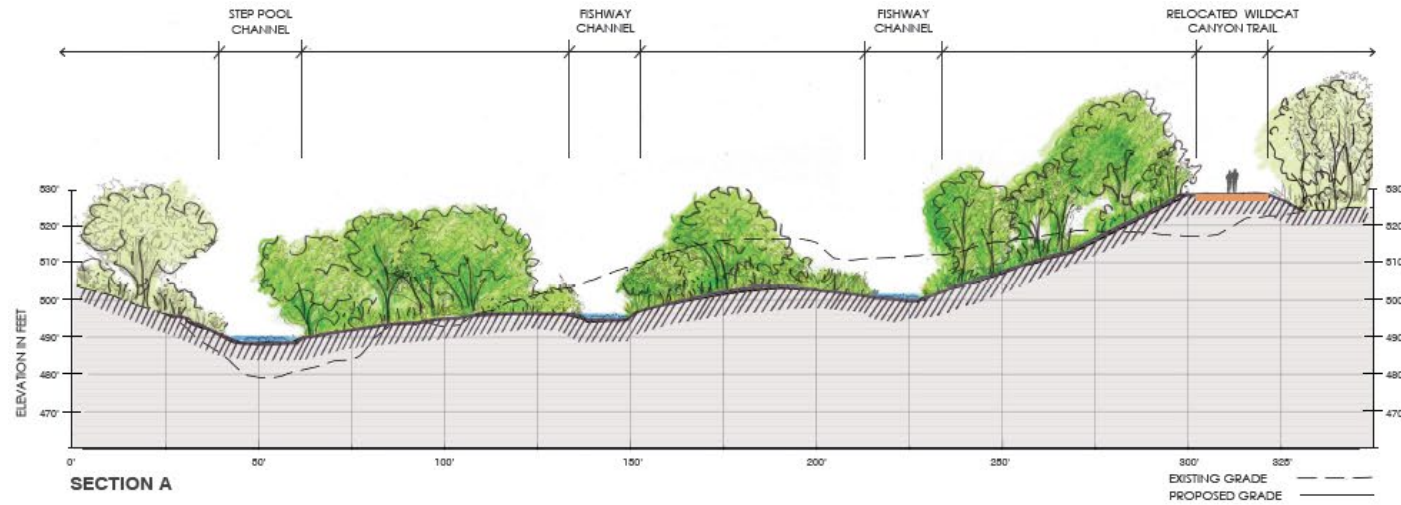
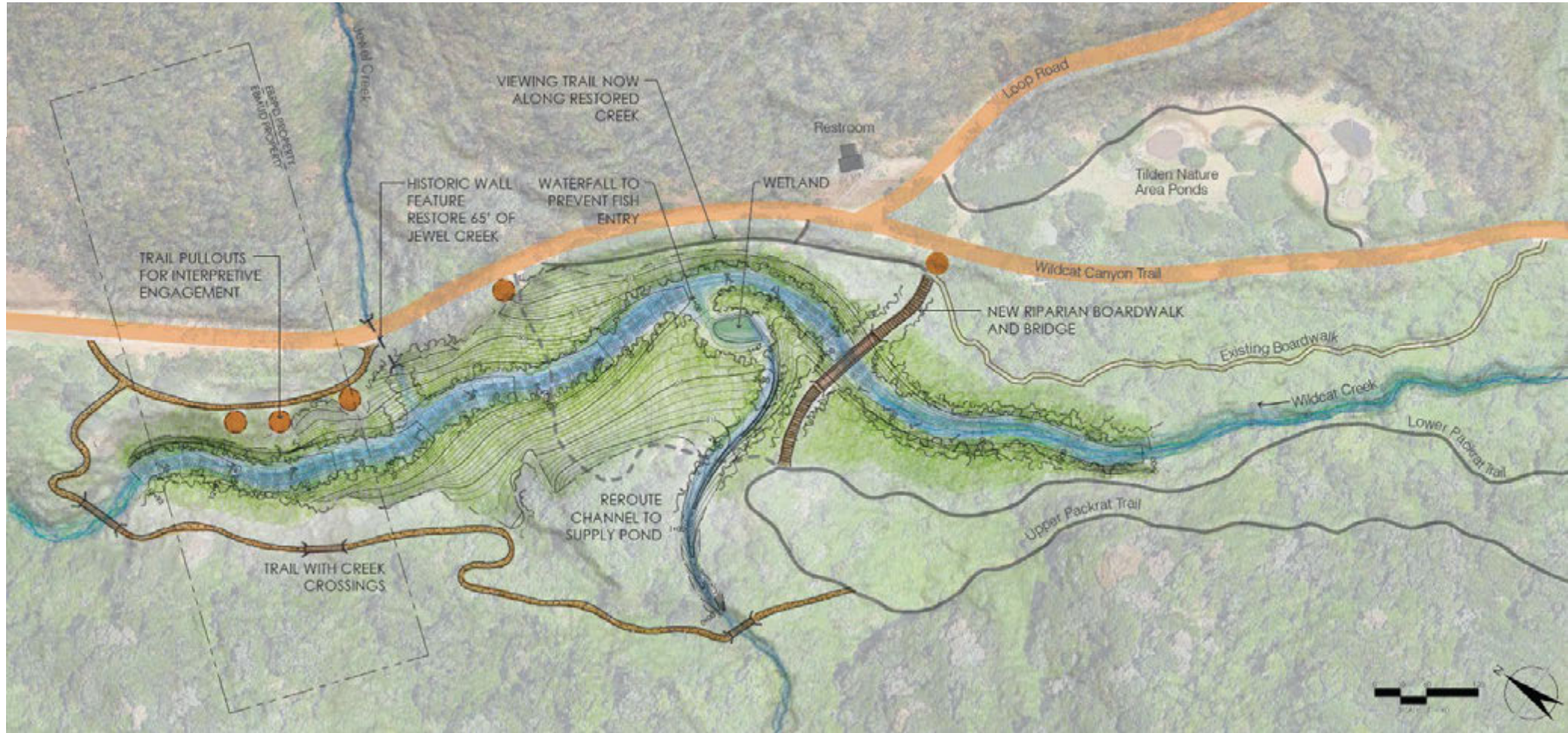




Photo Credit: Chick Markley

CONCEPT 3 – RESTORE WILDCAT CREEK

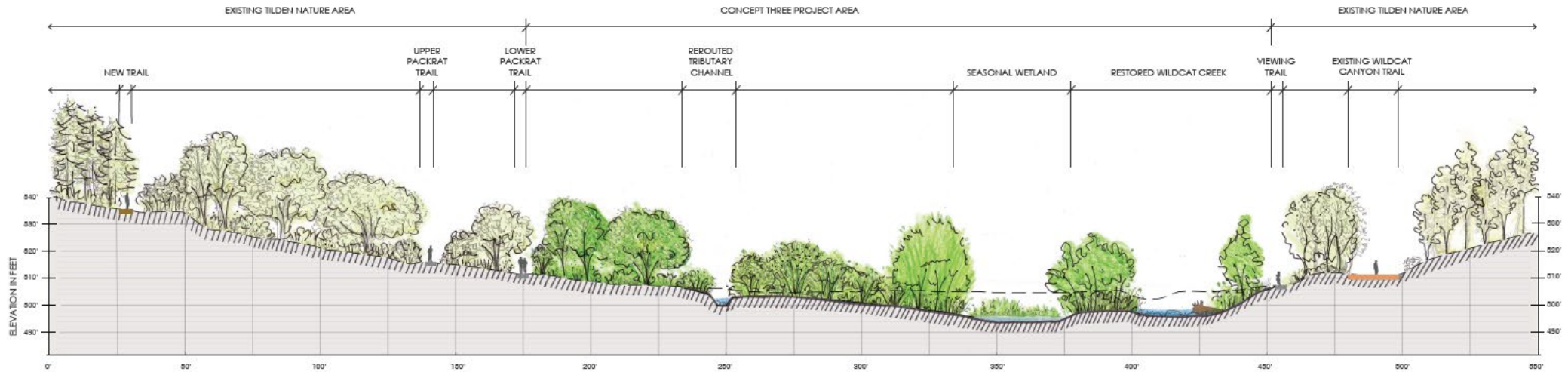
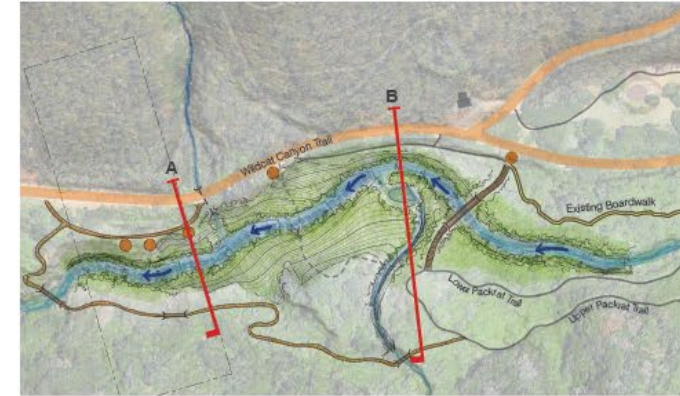
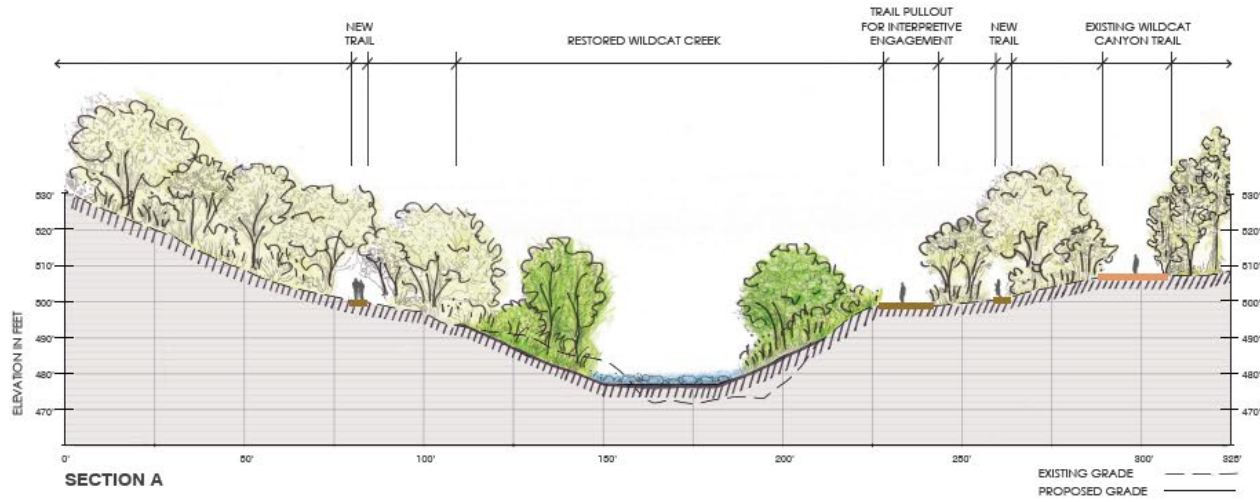


CONCEPT SUMMARY:

- Restore fish passage in Wildcat Creek by removing Jewel Dam & restoring the riparian corridor.
- Remove small dam at upstream sedimentation basin.
- Remove portion of Lower Packrat Trail.
- Add a new boardwalk & Trail with creek crossings.

	PROPOSED BOARDWALK		EXISTING FIRE ROAD
	PROPOSED FOOT TRAILS		EXISTING BOARDWALK
	PROPOSED BRIDGES		EXISTING FOOT TRAIL
	PROPOSED TRAIL PULLOUTS		DECOMMISSIONED FOOT TRAIL
	GRADING LIMIT		

CONCEPT 3 – RESTORE WILDCAT CREEK





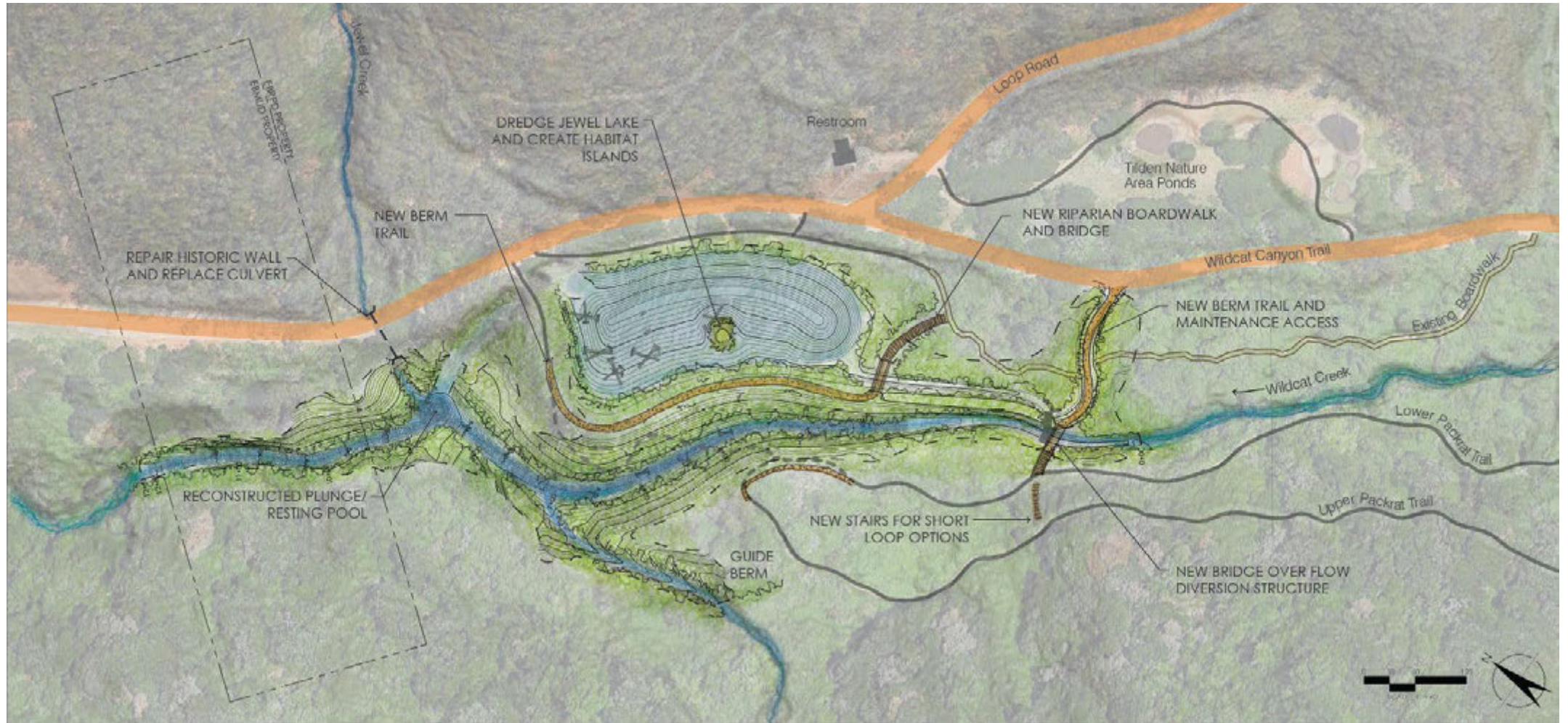
Gleason Creek 2007
Photo Credit: Balance Hydrologics



Gleason Creek 2013
Photo Credit: Balance Hydrologics



CONCEPT 4 – LAKE + BYPASS CHANNEL

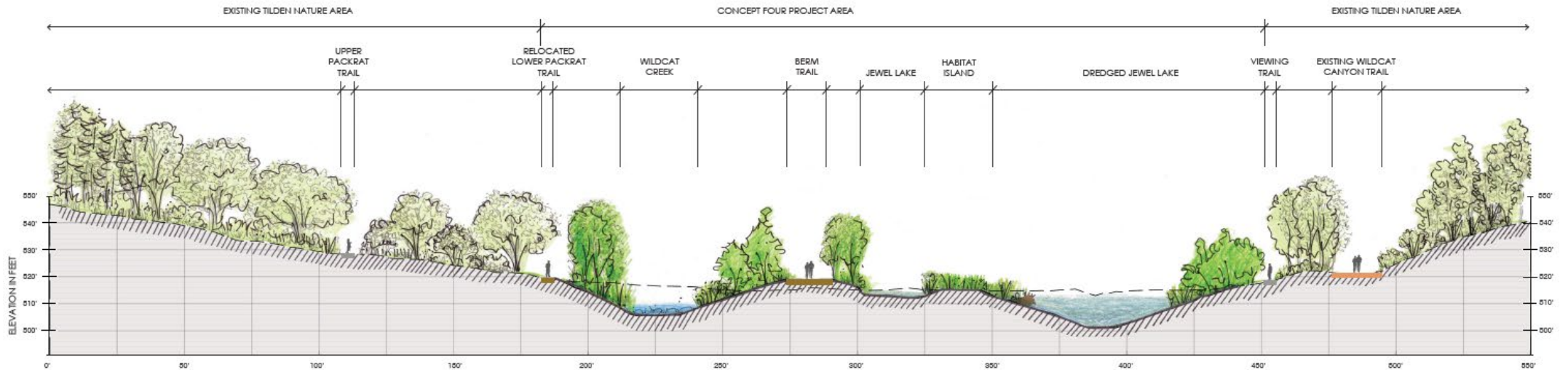
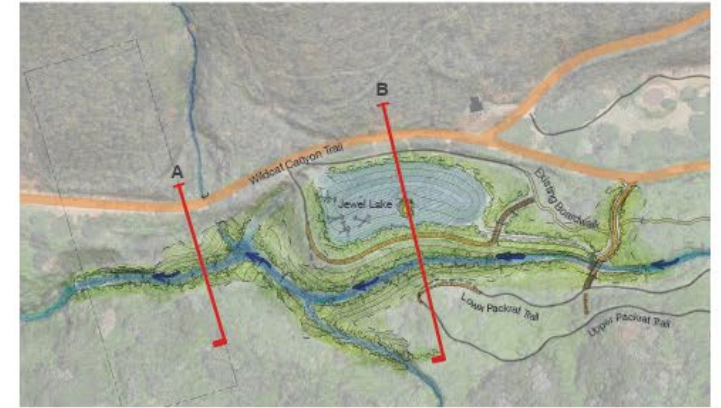
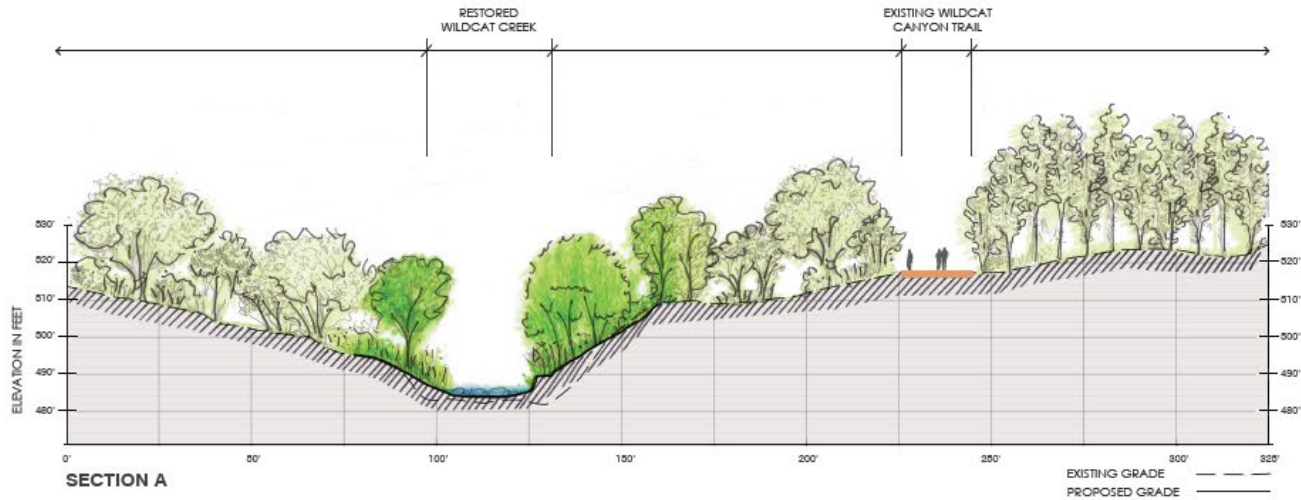


CONCEPT SUMMARY:

- Construct a naturalized bypass stream channel on the west side of Wildcat Canyon to restore sediment continuity & fish passage.
- Dredge & enhance Jewel Lake, modify dam to maintain open water.
- Remove small dam at upstream sedimentation basin.
- Adjust Lower Packrat Trail & add new berm trails.



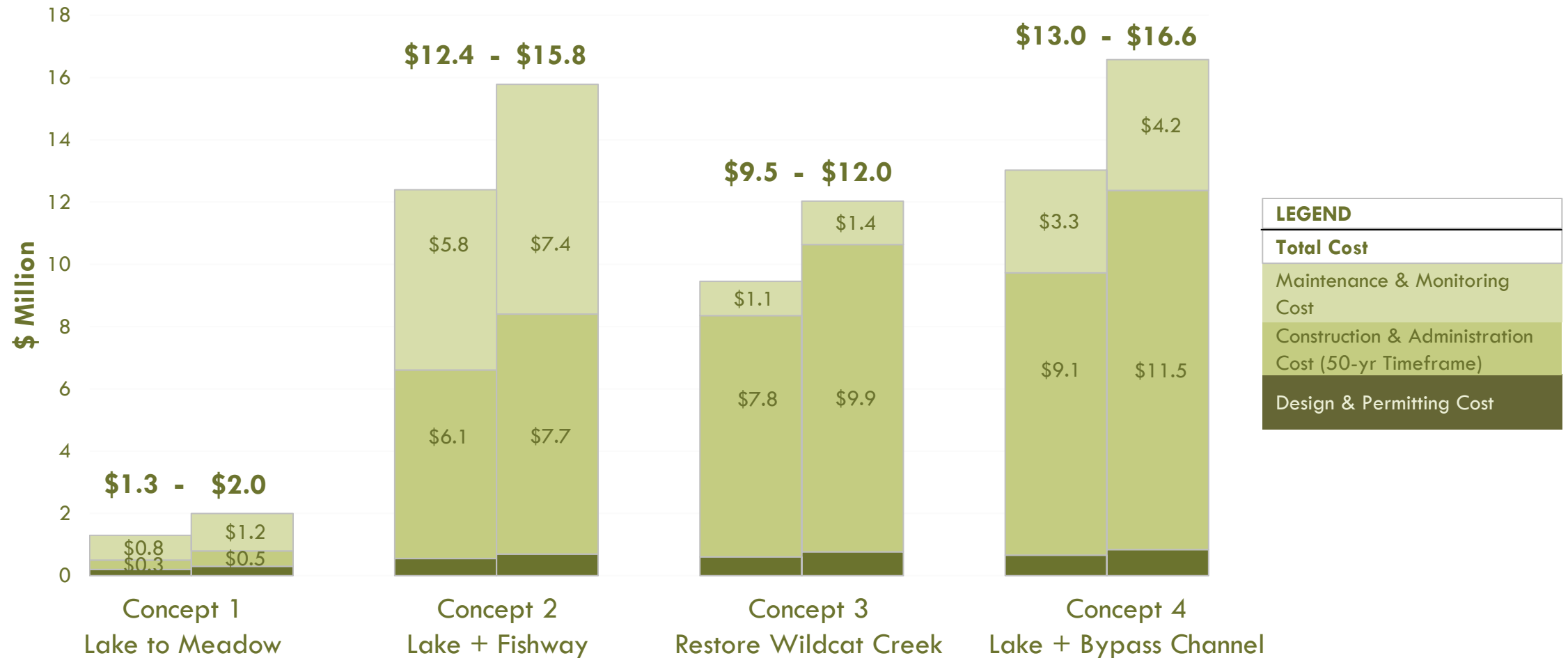
CONCEPT 4 – LAKE + BYPASS CHANNEL





PROJECT GOALS DECISION MATRIX	CONCEPT 1: LAKE TRANSITIONS TO MEADOW	CONCEPT 2: MAINTAIN OPEN WATER + FISHWAY	CONCEPT 3: RESTORE WILDCAT CREEK	CONCEPT 4: LAKE + BYPASS CHANNEL
Enhance Native Species Habitat	+	++	++	++++
Provide Salmonid Passage	-	+	++++	++
Prevent Sediment Deposition	+	-	++++	++
Maintain Level of Public Access	++	++	++	++
Maintain / Provide a “destination” for public	+	++	++	++
Maintain lake as open water	-	++	-	++++

PROJECT LIFECYCLE COSTS



LEGEND
Total Cost
Maintenance & Monitoring Cost
Construction & Administration Cost (50-yr Timeframe)
Design & Permitting Cost

Stakeholder & Public Outreach

(Preliminary List)

AGENCY/TRIBAL STAKEHOLDERS

- EBMUD
- CC Flood Control
- Richmond
- San Pablo
- Berkeley
- Confederated Villages of Lisjan

STUDY TIMELINE

Fall 2020/
Summer
2021

Feasibility Analysis

- Inventory & Analysis, Conditions Assessment
- Staff to Staff Agency Stakeholder Outreach

Summer/
Fall 2021

Concept Evaluation

- Staff to Staff Agency Stakeholder Outreach
- Board Executive Committee Review
- Public Workshop #1

Fall/Winter
2021, 22

Study Findings

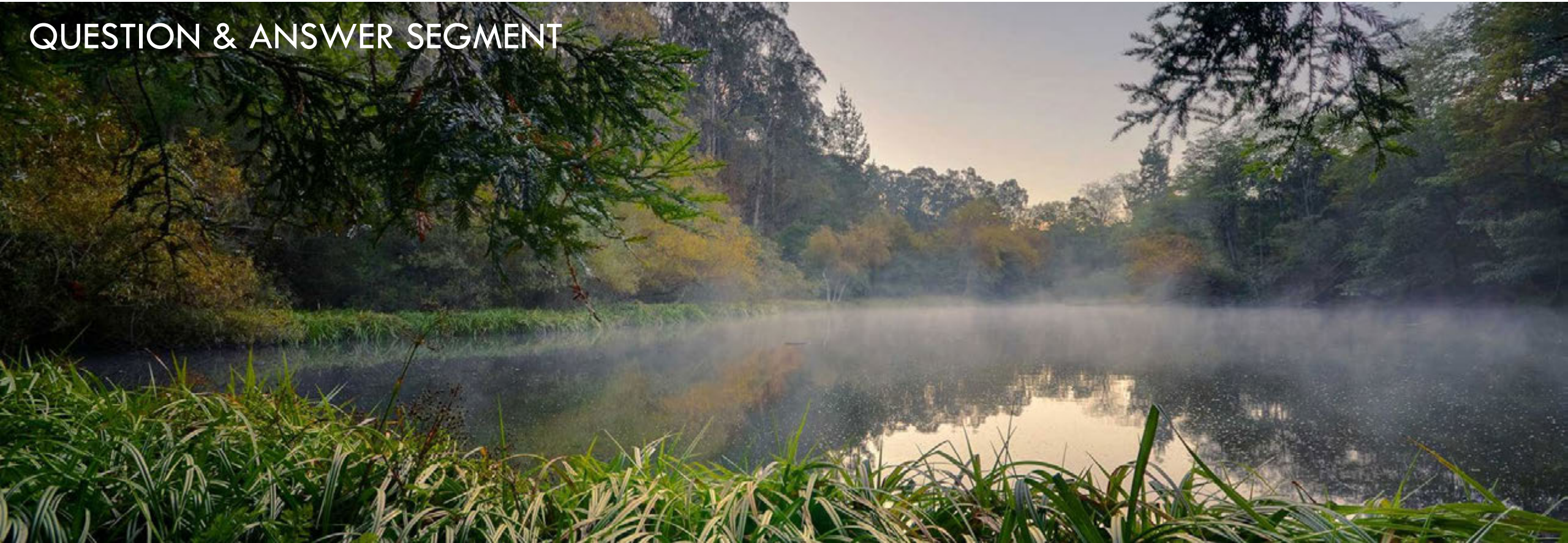
- Staff to Staff Agency Stakeholder Outreach
- Board Exec Review - consider preferred design concept
- Public Meeting #2

Winter/
Spring 2022

Board Consideration

- Board Review and Consideration
- Proceed with developing Preferred Concept

QUESTION & ANSWER SEGMENT



Jewel Lake Study: Public Workshop #1

October 20, 2021

Questions and Answers:

Below is a list of questions that were posed at the public workshop. They were submitted by chat during the presentation and read aloud with answers provided by Park District staff. Please refer to the youtube video of the meeting for the answers to questions. The Q/A portion of the workshop begins at 32:45 in the video. Use this link: <https://youtu.be/cVRMv6qzyT8?t=1963>.

1. Why no such concern for sediment transport and deposition for other dammed streams in PD? JL vulnerable because water not used as reservoir or human swimming ie... there would be huge people resistance.
2. Will someone address the impact of the drought and climate change and the fact that currently there is no water in the lake and no wildlife? I missed the first few minutes but that's why I came tonight. Will these options address the current state of the lake area? thank you
3. Why does picture for #3 show much more water in Wildcat Creek than in other concept pictures
4. Packrat trail is not shown accurately
5. How does Lake Anza effect what's happening downstream at Jewel Lake? Where are the turtles? How did otters get into Jewel Lake a couple of years ago?
6. How does Wildcat creek in #4 flow into and out of Jewel L? no flow channel shows on picture.
7. What will prevent the lake in option 4 from becoming algae choked in anticipated hotter climate change summers with insufficient rainfall to allow enough replenishment of the lake?
8. Question - can you please explain why concept 4 provides a greater benefit to native species/habitat than concept 3? Thanks.
9. J L has been dredged twice as mentioned. Why now anticipate every 20 years? What is wrong with dredging—PD dredges several places in district routinely.
10. How do each of the alternatives impact management and flow releases from Lake Anza?
11. #4 makes tradeoff: Keep Jewel Lake, but proposed new bridges and trail all the way around the lake cuts into existing habitat —jeopardizes wildlife which has enjoyed protected habitat for decades.
12. Which of the 4 connects is best suited for a drier climate, in terms of habitat, aesthetics and maintenance?
13. Has the possibility of flooding from the creek channel to the engineered lake been looked at? Could this possibly be a problem for new trails and the creek recontouring/rerouting itself?
14. Does the Lishan Tribe have a concept preference? and if so why?
15. There is a major drainage gully that carries Kensington run-off that enters just below the dam. I'm curious how each of the 4 proposals would address this?
16. Are beavers a historic species here? How would the park deal with Beavers contributions should they arrive in the future?
17. Can you compare the habitat values of options 3 an 4?
18. Is dredging realistic given the endangered species concerns/constraints?
19. Comment not question. Our current drought is highlighting how climate change may play out locally for reservoirs and the kind of water levels we might expect to have in the future. Jewel

Lake is dry. Maintaining "lakes" in riparian systems will likely be more difficult in the future.

Creek restoration seems like the smart solution that will require less maintenance in the future.

20. I love proposal 3. But if it doesn't have a lake the public proly won't like it, folks love their small ponds. Do the engineers have an argument for choosing to go without the lake and restore the creek back to a 19th Century concept?
21. How many Rainbow Trout Currently try to make their way up towards Jewel Lake?
22. Can someone talk a bit about the impacts of sediment transported downstream? I believe that sediment from the undeveloped upstream watershed has been a problem at the downstream Wildcat Creek sediment basin? And what is the value downstream of having the lake as a sediment trap?
23. Good comments however Jewel Lake - unlike Lake Anza - is safe from humans and dog activity. Wildlife are less disturbed. Jewel Lake is therefore a valuable habitat for wildlife that suffer from human/dog activity.
24. I don't see the 4 options on the Jewell Lake webpage. Where can I find them?
25. Would a fish ladder at Anza dam be installed at same time—since fish spawn is point of all
26. thank you for a great public workshop Have a great night
27. Thank you, great briefing
28. Good to see maintenance included in the plan.
29. I encourage you to seek alternatives to Survey Monkey as the term monkey is derogatory/offensive to Blacks and Filipinos