



# A COLLABORATIVE VISION FOR THE RESTORATION OF MT SUTRO'S WOODLAND CANYON WATERSHED

DECEMBER, 2023



# BACKGROUND

Woodland Creek flows through a steep canyon on San Francisco's Mt. Sutro during the wet season, rapidly transforming from a trickle near the summit to a powerful flow at the base. During the heavy rains of 2022 – 2023, the creek's raging flow blew out trails and overwhelmed drains to flood neighboring property, yet the creek channel dries up completely shortly after winter rains stop. Community-based nonprofit Sutro Stewards has been working in collaboration with land owners UCSF and SF Recreation and Parks to build access trails and begin replacing the invasive plants that cover the creekbed and surrounding area with native plants.

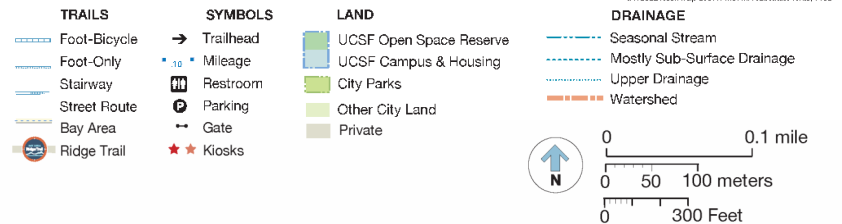
With this groundwork and these relationships in place, the time has come to restore the creek itself. There is an opportunity to slow and infiltrate stormwater, recharging groundwater and extending the flow season, improve habitat and provide better access for the community to the creek. Historic journals suggest that the creek once held pools supporting frogs and other wildlife into the summer dry season. In partnership with landowners and the community, we are inspired to restore the creek so that present and future San Francisco residents can experience riparian abundance in the City once more.



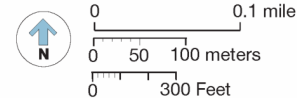
WINTER CREEK FLOODING IMPACTS NEIGHBORING HOMES AND PUBLIC SPACE

VOLUNTEERS REMOVE INVASIVE PLANTS IN WOODLAND CANYON, SETTING THE STAGE FOR MORE COMPREHENSIVE RESTORATION

# WOODLAND CANYON WATERSHED



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Contour interval = 10 feet  
Elev. datum: others than USGS



# COLLABORATORS IN RESTORATION

## SUTRO STEWARDS + SF PARKS ALLIANCE



Founded in 2006, Sutro Stewards builds community, connects people with nature and protects and enhances Mount Sutro. We envision a thriving and biodiverse, nature oasis weaving through the fabric of urban life and accessible to all. With this in mind, we work with thousands of volunteers to build and maintain over 4.5 miles of trail, restore biodiversity and grow thousands of native plants. Our Health in Nature program provides healing, nature immersion experiences to communities who have historically been marginalized by socio-economic disparities. To make sure the work moves beyond Mount Sutro, we educate our community about San Francisco's local ecology, habitat restoration, and natural solutions to climate change through our crew leader trainings, our spring nature walks and our paid youth internship programs.

We are fiscally sponsored by the San Francisco Parks Alliance and are the largest organized independent volunteer pool in San Francisco, engaging over 1,000 volunteers each year and hosting six or more events a month. We work with city agencies and land managers to continue to expand the network of connectivity between San Francisco opens spaces and engage the community in the planning of improvements and long-term stewardship of each project. Sutro Stewards began working toward restoration of Woodland Canyon Creek in 2022.

## UNIVERSITY OF CALIFORNIA, SAN FRANCISCO (UCSF)



UCSF is part of the 10-campus University of California, and the only of its campuses dedicated to graduate and professional education. UCSF is a collection of dedicated scientists, clinicians, students and staff who strive to make the world a better place through our singular focus on health. The original UCSF campus located at Parnassus Heights is made up of a tight network of buildings covering almost six blocks adjacent to Woodland Canyon.

In 1953, UCSF purchased a 90-acre parcel adding to a 13-acre parcel donated by Adolph Sutro to form the Mount Sutro Open Space Reserve. In 1976, UCSF designated 58 acres of the Reserve as permanent open space (later increased to 61 acres). This forms the upper Woodland Creek Watershed. UCSF is committed to maintaining the Reserve as an important natural resource for San Franciscans. To preserve the beauty, safety and accessibility of Mount Sutro, UCSF Facilities Services performs ongoing general maintenance throughout the Reserve and its trails. UCSF has two certified arborists on staff who are dedicated to preserving the beauty of the natural environment.

## SAN FRANCISCO RECREATION AND PARKS (SFRPD)

The San Francisco Recreation and Park Department's Mission is to provide enriching recreational activities, maintain beautiful parks and preserve the environment for the well-being of everyone in our diverse community. SFRPD administers more than 220 parks, playgrounds, and open spaces. The City and County of San Francisco purchased the Interior Greenbelt open space for the public in the 1950's and envisioned it as part of a collection of natural lands that would connect to one another in the heart of the city, creating a continuous greenbelt. This forms the lower segment Woodland Creek Watershed.

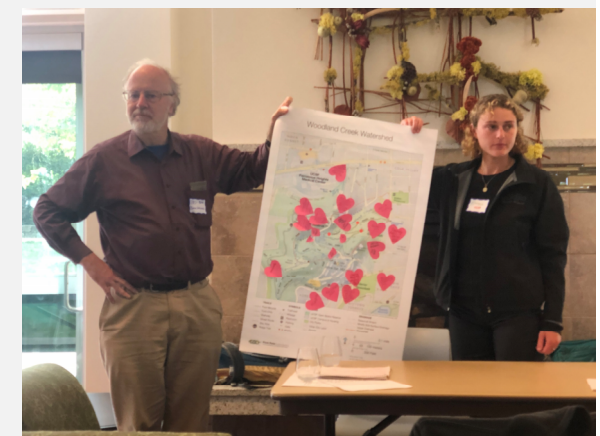
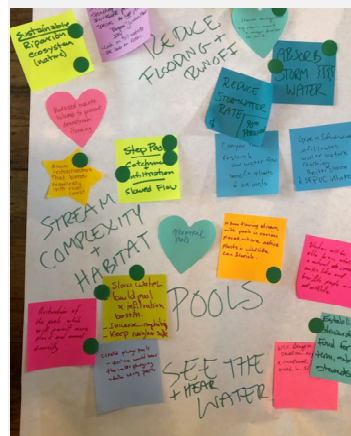


# VISIONING PROCESS + WORKSHOP

Sutro Stewards convened a collaborative vision workshop with 30 participants including members of UCSF, SFRPD, private landowners where the creek culverts, Golden Gate Bird Alliance, California Native Plant Society, Nature in the City, SF Urban Riders, Livable City, the Presidio Trust, SF Environment Department and Sutro Stewards core volunteers. The group shared their goals for the creek, watershed and community, and brainstormed opportunities and solutions to challenges.

Leading up to and following the workshop, individual interviews have integrated additional important perspectives, such as participants in the GROWTH Health in Nature program, creek restoration scientists and longtime community members and land stewards, including Ramaytush Ohlone leadership.

This vision documents the high-level consensus outcomes of the workshop and vision process. For a more detailed record of workshop ideas and outcomes, please see the appendix.



# A SHARED VISION

GOALS



**RESTORED HYDROLOGY**



**BIODIVERSE HABITAT**



**ACCESS + INCLUSION**



**HEALTH IN NATURE**



**COMMUNITY CENTERED STEWARDSHIP**

A HEALTHY SEASONAL CREEK GRACES WOODLAND CANYON

NATIVE FLORA AND FAUNA THRIVE IN EXPANDED DIVERSE HABITATS

WOODLAND CANYON IS A CITY-WIDE TREASURE ACCESSIBLE AND WELCOMING TO ALL

PEOPLE ENJOY HEALTH BENEFITS FROM AN IMMERSIVE NATURE EXPERIENCE IN WOODLAND CANYON

IN THE SPIRIT OF RECIPROCITY, WE GIVE BACK TO NATURE AND PROVIDE LONG-TERM STEWARDSHIP

OBJECTIVES

- RETAIN AND SLOW WATER FLOW TO EXTEND THE CREEK'S SEASON AND REACH
- REDUCE DOWNSTREAM FLOODING TO NEIGHBORING PROPERTIES
- WATERSHED LEVEL ENGINEERING STUDY TO QUANTIFIABLY REDUCE FLOWS TO COMBINED STORM AND SEWER SYSTEM THAT CAN IMPACT CITY NEIGHBORHOODS AND BEACHES IN PEAK RAIN EVENTS
- CONSIDER MODIFYING DRAINAGE INFRASTRUCTURE THAT DIVERTS LOW FLOWS FROM THE CREEK

- CREATE RIPARIAN AND UPLAND HABITAT ZONES FED BY RESTORED CREEK
- INCREASE NATIVE PLANT COVER AND REDUCE INVASIVE PLANTS
- ENHANCE HABITAT FOR BIRDS, POLLINATORS, AMPHIBIANS AND OTHER WILDLIFE
- CONTRIBUTE TO CLIMATE CHANGE MITIGATION AND RESILIENCE THROUGH NATURE-BASED SOLUTIONS

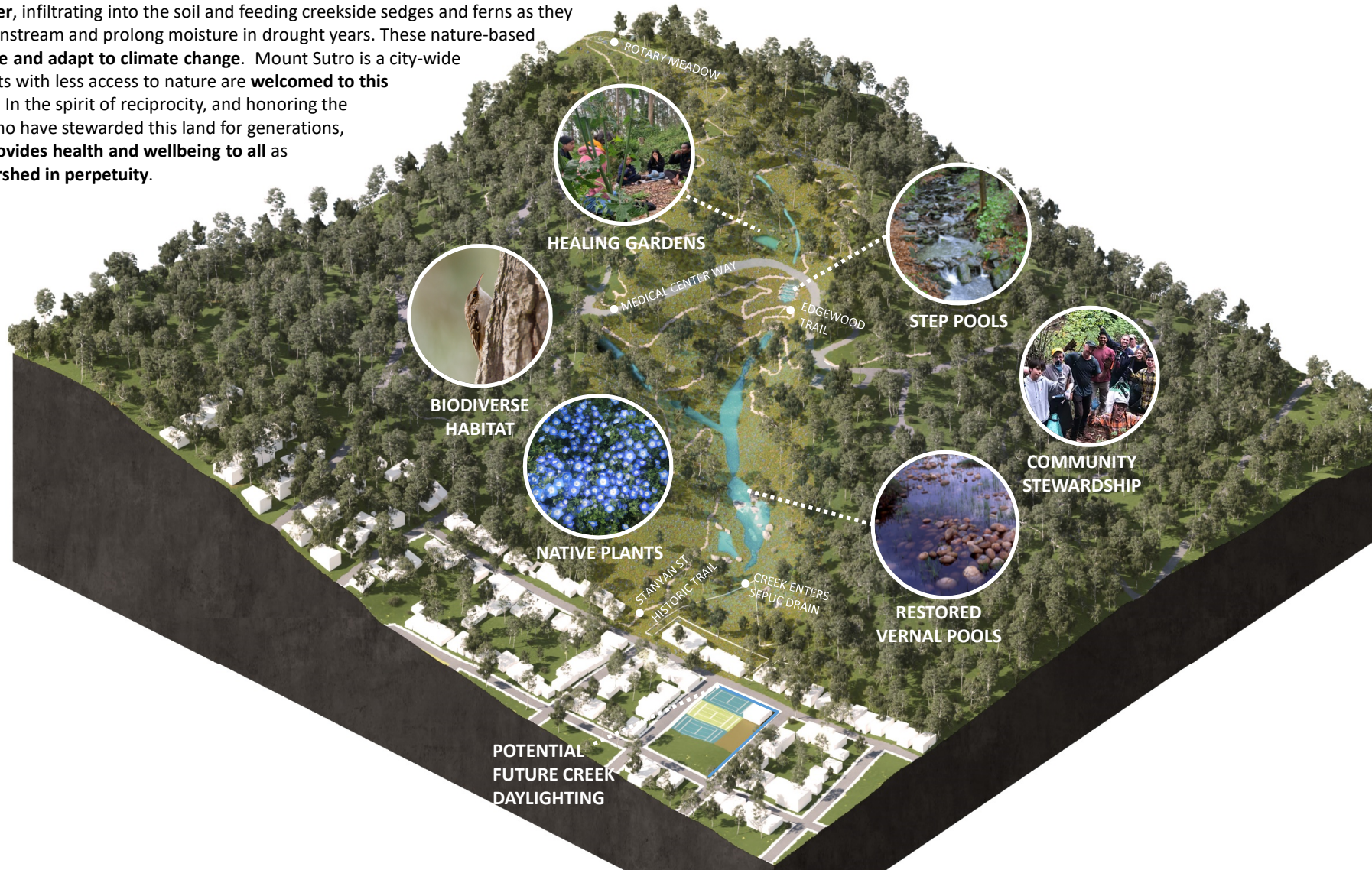
- INSTALL WELCOMING MULTILINGUAL SIGNAGE
- COMMUNICATE PUBLIC ACCESS AND TRAIL CHARACTERISTICS TO IMPROVE USABILITY
- OFFER WATERSHED EDUCATION AND SKILLS DEVELOPMENT PROGRAMS
- FACILITATE ACCESS TO WOODLAND CANYON BY MEMBERS OF UNDERSERVED COMMUNITIES
- SUPPORT OHLONE CULTURAL ACTIVITIES ON THE LAND

- RETAIN AND ENHANCE BIOPHILIC EXPERIENCE
- INCREASE FOREST OPENNESS AND PREVENT VEGETATION OVERGROWTH AROUND CREEK TO IMPROVE VIEWS AND SIGHTLINES
- ENHANCE SAFETY BY REDUCING RISKS FROM TREE/BRANCH FALL AND WILDFIRE
- BRING TRAILS TO THE WATER
- CONSIDER FUTURE CREEK DAYLIGHTING INTO URBAN FABRIC

- FAVOR HAND TECHNIQUES AND AVOID HEAVY MACHINERY FOR CREEK RESTORATION, INVOLVING VOLUNTEERS AND GREEN JOB TRAINING CREWS
- STRIVE TO SOURCE ALL MATERIAL FROM MT SUTRO, FROM REUSE OF REMOVED TREES TO NURSERY-GROWN NATIVE PLANTS
- ENSURE COMMUNITY AND INDIGENOUS VOICES ARE HEARD IN PLANNING AND IMPLEMENTATION
- PLAN AND RESOURCE FOR LONG-TERM STEWARDSHIP



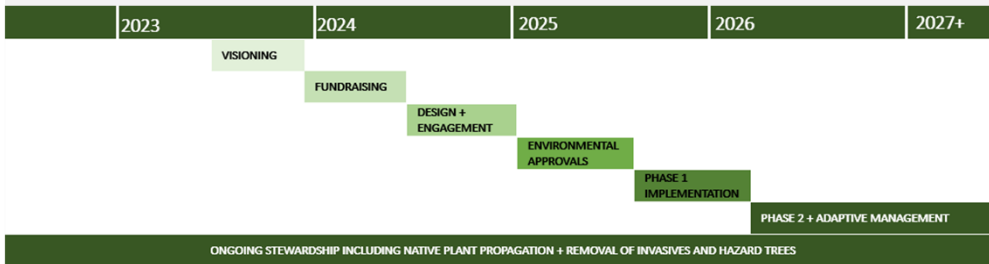
**We envision a watershed where life flourishes.** Himalayan blackberry and ivies are cleared and **native plants thrive** in their place. Even in the dry season, the creek bed is visible, meandering down from the highest peaks of Mount Sutro, flowing from grassland and wildflowers at the summit, through coastal shrubs and into forest understory as it descends. **Sunlight reaches the creek floor** and **views of the creek abound** from the Historic trail to the south, and from the Edgewood trail to the north. In carefully designed access points, **children scamper** downtrail to reach the creek below and **dip their toes** into the winter water flow. **Song birds nest** in the abundant shelter of native alder, thimbleberry and willow as tiger and pipevine **swallowtail butterflies enjoy** the dappled shade. **Small pools filled with tadpoles** and pond lilies **slow the flow of water**, infiltrating into the soil and feeding creekside sedges and ferns as they **prevent flooding** downstream and prolong moisture in drought years. These nature-based solutions help **mitigate and adapt to climate change**. Mount Sutro is a city-wide resource, and residents with less access to nature are **welcomed to this precious urban creek**. In the spirit of reciprocity, and honoring the Ramaytush Ohlone who have stewarded this land for generations, **the restored creek provides health and wellbeing to all as we care for this watershed in perpetuity.**





# BRINGING THE VISION TO REALITY

## WORK PLAN



## OPPORTUNITIES TO SUPPORT

Sutro Stewards is actively building the Woodland Canyon Watershed Restoration campaign. We welcome many forms of support, including:

- Volunteering at ongoing stewardship events in the canyon to clear invasive plants
- Donations
- Grant research and fundraising
- Creek restoration design and hydrological analysis
- Graphic illustration
- Communications and PR
- Web design and social media

## ACKNOWLEDGEMENTS

We would like to thank **everyone** who has worked over the years to support stewardship and restoration on Mount Sutro, and especially those who contributed their ideas to this vision:

Charlie and Rusty Reiter  
Sutro Stewards Board, Staff and Volunteers  
UCSF Staff  
SF Recreation and Parks Staff  
Arup  
WRA  
California Native Plant Society, San Francisco Chapter  
Golden Gate Bird Alliance  
Nature in the City  
SF Urban Riders  
Lew Stringer  
GROWTH  
Association of Ramaytush Ohlone



Woodland Creek flowing through plant restoration work area in 2022



# Appendix

## Vision Workshop Documentation

# INTRODUCTIONS

## What is one thing you value or love about Mount Sutro? What does Mount Sutro mean to you? To the city?

- Kirstin Weeks/ Bio studio/ Woodland Canyon, you can be on stanyan st and suddenly be immersed in a nature experience
- Paul Bourbin / neighbor volunteer/ nature
- Edith / neighbor volunteer / calm
- Christopher campbell / SFRPD / interior greenbelt evolution from no trails to having improved access through trails with help from
- Anthony Copoli / SFRPD/ urban trails supervisor, plant palette and goldback ferns and elk clover
- Karen Duderstadt/ SS board member / new appreciation for whats possible in the canyon
- Jaclyn Drexler / CGR UCSF / Engagement with the mountain and partnership with SS, nature baths and pull yourself out of life and urban spaces
- Whitney Grover/ SF Bird Alliance / oasis for humans and bird biodiversity, intimate connection with birds
- Chris Fang / WRA / Nature urban interface
- Emma / UCSF / intentional work to expand and maintain habitat
- Eli / UCSF / Storm management project
- Laura Castellini / NTC / Fascinated with all things water and creek restoration
- Nick Bear / Board member, SF Urban Riders, engineering / Volunteer with
- Charles Reiter / Reiter Property at drain point of WCC / love being next to the forest
- Rusty Reiter / Reiter Property / love living next to the forest
- Bridget llanes / SS HiN / Bringing people who normally doesnt have access to nature to the mountain
- Maryann Rainey / SS Board Member / Bird habitat on the mountain and thinking about long term management
- Morgan / FM UCSF / restoration has been on their mind for a long time, now is the right time
- Kelly Dodge / SS / Power of mount sutro to become a living ecosystem that can heal and biodiverse
- Abigail Alfonso / SS / Community that uses mountain, humans and wildlife
- Matthew / UCSF ARUP civil engineer storm management plan / diversity in vegetation and topography
- Geri / SS / refuge from city
- Steve Leodakis / SS board member / wild open space to regenerate and be in nature, wildflower blooms
- [Ildiko Polony](#) / SS / restoring a creek inspires and brings people together
- Gail Lee / UCSF sustainability director / natural habitat and open space, refreshing and soothing
- Tom / Livable City / Love fringecups and that can take the 33, walk a few blocks and be in the nature then walk up to Twins Peaks
- Bob Hall / CNPS / biodiversity, restoring the creek can help the doom loop become the bloom loop
- Peter Brastow / SFE / experiencing the continuity of all the effort of UCSF and SS to have this open space
- Pat Greene / neighbor and golden gate bird alliance / woodland canyon restoration is exciting



## GOALS FOR WOODLAND CANYON CREEK

Picture success in 10 years...what does it look like?

# HABITAT

## BIRDS

There are educational opportunities to learn, map it, and help out of the watershed

There are many Mushroom opportunities

more prog. 3 submergence habitat

Increased number and species of birds, mammals, reptiles and amphibians

Retention of water in channels, case for birds

Highlight the importance of seasonal creeks. Don't need year-round flow for important habitat!

restoration can be integrated in a mosaic of managed lands

swap all Nest boxes for cavity nesting birds (Audubon.com) + Monitor (remove snail)

A noticeable change in creek from bottom to top of watershed wetter → drier willows → oak dense → open

increased habitat for rare plants already in canyon

Return land habitat

Return water to natural environment

Goals:  
- Reduce dam-risks that risk biodiversity  
- Increase water flow  
- Increase riparian habitat  
- Increase large scale riparian trees

A gathering circle for lunch or educational sessions

The presence of native riparian trees: Alder, Willow, cottonwood, elderberry, Tule, as most plant community

Restore natural pools for wildlife and riparian to enjoy

Rejuvenating stream with diversity of features

resilient ecosystem

children can play safely & freely

HEALTHY STABLE ECOSYSTEM

WILDLIFE ENHANCEMENT

ALL NATIVE TREES + PLANTS IN WOODLAND CANYON

HABITAT RESTORATION

stable soil placement by professionals at restoration station

seeing & hearing wildlife

Biodiversity, wildlife increased

healthy riparian vegetation plants community

BIODIVERSITY

BIODIVERSITY

Increased abundance and diversity of birds and wildlife

Increase in Biodiversity related to improved management

Native plants outnumbering invasive

More water diversions than riparian meadowing causing soil disturbance

Analysing Benthic Insects GONE!

NATIVE PLANTS

Invasive ivy, blackberry eliminated

have been here, local plant with the of the local ecology. New version of NOT CA native but LOCAL natives that are here likely were here, could

improve education, displaying - screens aging and canopy replace w/ oak, tule, willow creek shrubs, silk tassel and ceanothus

All major riparian trees (Alder, Willow, Cottonwood, Elderberry, Tule, etc.)

replace culvert under W.C. trail w/ bridge over restored creek

Track how/if amount of streamflow increases as eucalyptus trees are removed

REDUCE INVASIVE PLANTS

From SF, these species assemblage in nearby ref sites e.g. in the N.W. lands of San Francisco Mt., e Monte Pinos etc. Basically,

Native plants replace non-native blackberry - better plants, less birds and people enjoying the canyon with increased light.

Introduce more healthy uncommon plants - greasewood, sun exposure w/ glasslands retrofitted throughout the canyon.

# CITYWIDE WATER CONNECTIONS

Slow the flow  
- Rocks  
- Berms  
- Native creek  
- Riparian flow

collected naturally recharging ground water

Restored natural flow of water beyond Mt. Diablo improving the ecological health of the city

A place where dragonflies, birds, butterflies, cougars, bees and pond gliders seek out

Connect - riparian flow or a deer housing to creek and water

Design riparian plants for water infiltration

Stones and logs to create riffles

Sustainable Riparian Ecosystem (Native)

Engage the public - encourage them to plant native species in riparian areas. Design riparian plants for water infiltration. Look for riparian plants in the area.

REDUCE FLOODING + RUNOFF

ABSORB STORM-WATER

REDUCE STORMWATER RATES

Canyon road restored slow water flow benefit plants & animals

Green Infrastructure infiltrates water before reaching better slope & SFPUC intake

The Capture and reuse of water leaving the site through Cisterns and on site rain gardens

STORMWATER FOR IRRIGATION

# WATER REUSE

An observation bridge with a wide deck where people can tell the public stories about the creek

Water reuse

# STREAM COMPLEXITY + HABITAT

Minimal pools

A few flowing streams, with pools in various places where a native plants & animals can flourish.

Step Pools Catchment Infiltration Slowed Flow

Slow water build pool & infiltration losses.

Restoration of the pools which will permit more fish & animal diversity

create plug pools - water would be held water enjoying while very party

# POOLS

Establish a stewardship fund for long term, stable stewardship

do not want see effort wasted at a look of follow up

Goals  
↑ Plant Diversity  
↑ Wildlife diversity  
↑ In an area that receives continued stewardship

More Bioswales

# MANAGEMENT + FOLLOW-THROUGH

Use Goal - Done, not finished. Do it properly a few times for the first year. Do it again in the second year of the same project.

HEALTHY STABLE ECOSYSTEM

WILDLIFE ENHANCEMENT

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Project appears to reference the fact of not just space, but the additional 2000 spaces that have been lost.

ORGANIZED  
LONG-TERM  
TRAJECTORY  
COLLABORATIVE

Trail system  
interacts w/ the  
habitat -  
both closer to  
the creek and  
further out  
overlooking

EQUITY  
+ JUSTICE

environmental  
justice for  
communities  
downstream

Quiet, secluded  
areas "off the  
beaten path"  
for peace,  
bird-watching,  
etc

What about  
bushwhacks?  
Do we have  
enough?  
Should we  
build more?

More people have  
access to creek  
& get to enjoy  
the creek &  
surrounding  
habitat

Walking  
route nearby  
Hospital  
St. Dr.

NATIVE  
CULTURE  
ENGAGEMENT

Have Open House  
access that would  
be good to allow  
users to plan  
- Supply for the people  
- who use the trail  
- include plants

Community based  
preparation +  
long-term developed  
structures like  
shelters etc  
etc - no permits  
Community

IMPROVED  
WILDLIFE  
HABITAT

Urban humans  
connected to  
nature

↑ access  
leads to  
connection  
space

PUBLIC  
ACCESS

indigenous  
in subsistence  
participatory lead  
organization  
with case  
details

Lower  
Historic trail  
(Sloping)  
Risky, Braded  
steeper  
deeper  
way use

CONNECTION  
TO  
NATURE

Kids can get  
their feet wet  
and can access  
water bus for  
their school  
project.

What about  
trash receptacles?  
Does this make  
work for  
trash collectors?  
Do we need more  
trash cans?  
Should we  
have more?

TRANSIT  
to  
Clarendon  
trail head.  
No bus stops  
there.

ACCESS

Belgrave  
access - connect  
to Tower  
area

Mitigate steep  
sections of trail  
- Funding - GIS  
- grant vs. rate  
reduction

ACCESS FROM  
BELGRAVE

Open  
Space -  
Public access  
Safety for that  
access

OPEN  
SPACE

Build  
more  
ecosystem  
habitats

SAFETY  
OF RECREATION  
USERS

Erosion +  
Flooding  
Minimized  
Neighborhood  
Safety

Trail loop  
around Mt. Sol  
- lot kids use  
and touch water

humans  
+ wildlife

VIEWS  
+ AESTHETICS

Welcoming  
entry from  
stairway

More native  
plants for  
habitat

Creek  
Overlook  
(Chocoma?)  
in Lower  
Canyon

Places for  
humans to  
gaze on the  
creek or  
converse

ANNUAL  
WETLAND  
CAMPING

Dragonfly  
Creek on  
Anasidip is  
a good example  
of how it could  
look

A long term  
funded commitment  
to native  
ecological  
Stewardship

Examples  
- Tenn. Hollow  
- AIDS Bell to  
Stone Circle  
in GCP  
- New, casting Red  
to public land GCP

# BREAKOUT GROUPS

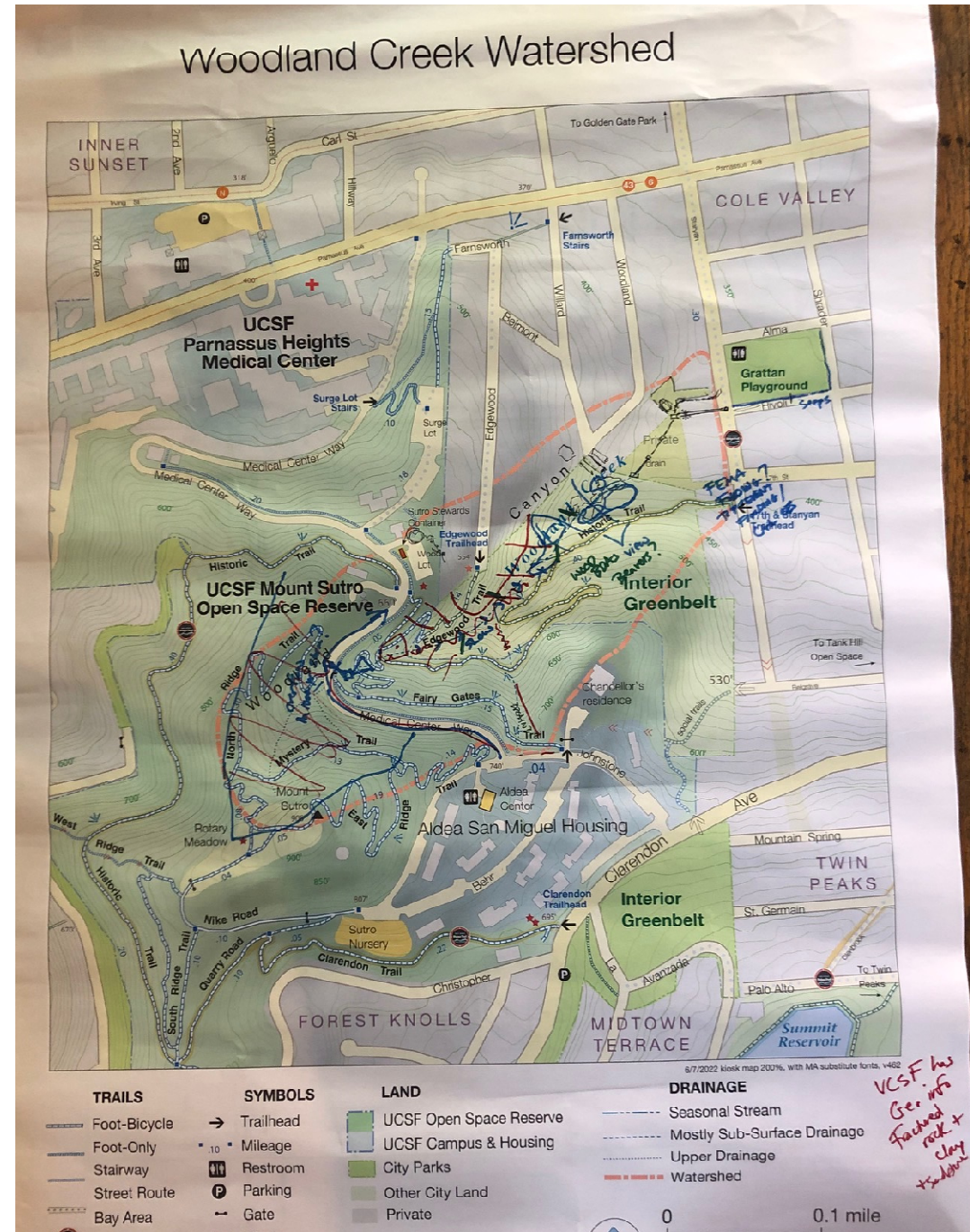


# WATER

How can we improve hydrology to meet the goals?

Can we identify likely locations for process-based interventions?

What kinds of interventions can be implemented by volunteers and avoid heavy machinery?





# PLANTS, HABITAT, ECOSYSTEM

- Long term: fewer exotic plants > moving toward native plants
- One goal
  - Clear intentions around understory
  - Longer game of tree overstory - only native
  - When do we remove the eucalyptus and when do we plant - is this simultaneous?
    - Do we have a long term plan for tree removal in the canyon
  - Have viewpoints of the creek but still allow for the natural “classic” look of a riparian corridor
- Bird focus
  - Need all the different levels in the canopy understory - bushes - canopy
  - Also good for birds is open areas
    - Planning some upland area with more open area
    - Closer to woods lot WC-LC right at edgewood and MCW
- Habitat
  - Low lying, water loving plants around creek
  - Medium sized shrubs building out from stream bed
  - Tall plants to shield housing from creek (improve user experience)
  - Keep trails shielded but open line of site
  - Management: fire mimicry based management
    - Plan on cutting back, intentionally over planting for thinning
  - Species specific
    - Right around the creek and water - what type of species do we want to bring in there
- Species
  - Make up is already much more diverse and more representative of the Bay Area
  - Plant communities
    - Mix it up
    - Or be more deliberate and go into zones of species habitat
    - Decide what habitat make up we want to create
  - Can we push for more oaks
- Collaboration between UCSF tree planting plans and Sutro Stewards understory planting planning
  - Can we get Morgan’s maps of where what tree species are there already
- Long term Management
  - Keeping viewpoints
  - Or have a high point for an overlook
  - How to avoid having people enter into the creek
  - Create foot bridges at the U where the creek crosses over the trails where people can interface with the creek but not create social trails down into the creek
- Need to make sure all invasives and roots are cleared out before planting
  - Weed thoroughly and mulch
  - Plant native and know you are going to damage them
  - Start filling in plants
- Need to create 5-10 year plan of what water remediation is happening, what trail work and access work is happening, what tree removal so we can create a clear planting plan

# ACCESS + EXPERIENCE

How can we create inclusive, equitable access?

What makes you feel welcome in an urban nature setting?

What interventions are needed to improve access and experience?

Where would the viewpoints be to a restored creek (marked on the map with "V")





# PARTNERSHIPS + FUNDING

## Partners?

- Livable Cities
- WITC
- CNRS
- Golden Gate Bird Alliance
- ReImagine SF

## Fundraising Notes

- Woodland Canyon
- Creek Vision Workshop

Barrios Trust  
↳ funds excursions

stewardship endowment  
returns fund long  
term stewardship

continuous giving  
Development vs sustenance  
vs

Philanthropy

IRA > Nancy Pelosi: act SFPA  
BIL Tom Steyer (illuminate  
removes him)

Land Back + ARO steward

Ropes course as funding  
Prevent using events  
ReImagine - Ground-breaking

Nonprofits continue responsibility - how much goes  
to gov. agencies? what does

↳ combination - Public Private Partnership

# commitment from agencies

↳

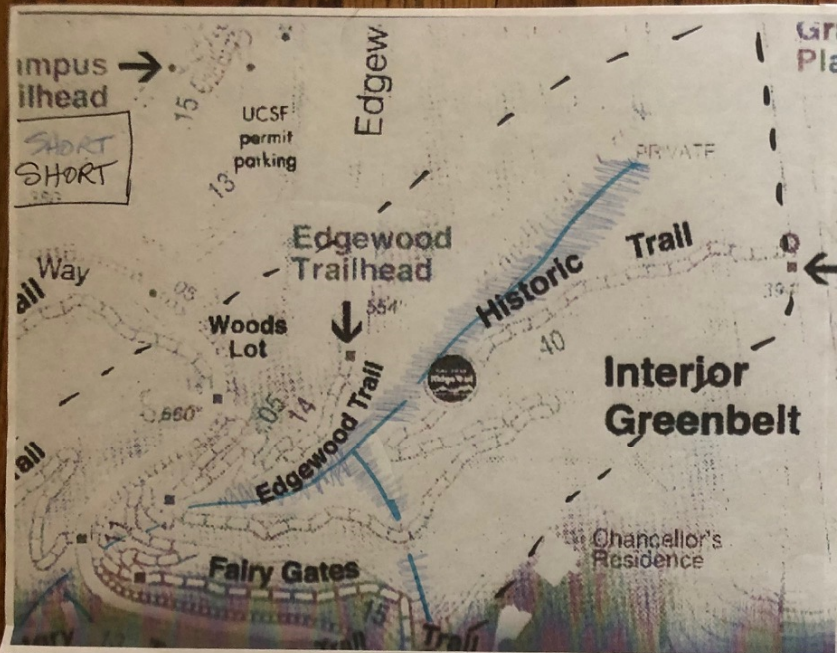
get # - Kirkham Heights } proposed developments  
↳ fund wcc }  
maintenance } Overlook  
what can be our enterprise agency?

UCSF

Sustainability Dept promotion + education  
Gail Lee



DETAILED RESTORATION IDEA CONTRIBUTION  
Maryann Rainey



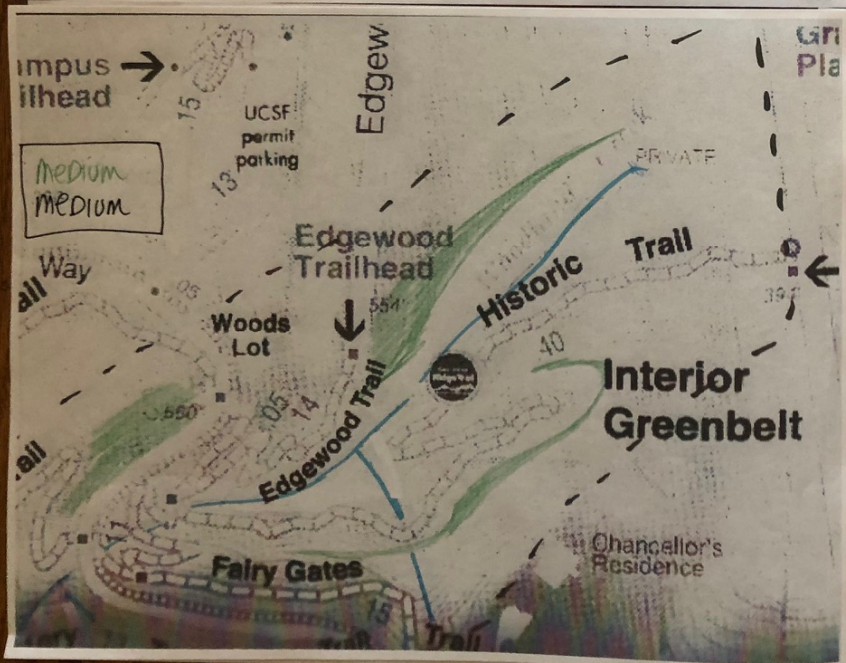
GOALS - Per Maryann Rainey:

- Create + Preserve Sight Lines to the Creek, requiring a minimum of maintenance in the future. Canopy of 70' or tallest trees.
- Optimize View of Creek of running water + of Creeksides from Historic Trail (primarily) and Edgewood Trail.

PLANT vegetation on South Side of creek (between creek + Historic + Edgewood trails) that is SHORT when mature (< 2-3 feet tall)

- Mountain flowers
- Strawberry
- Hedge Nettle
- Buckwheat
- dwarf coyote brush
- yerba buena
- Strawberry
- Phacelia
- short / creeping / cenothus
- Fringelip
- Sweetweed
- Sensitive daisy
- Yarrow
- Calif POPPY
- clarkia
- roses (NO? - thorny - spread widely via roots)

MARYANN V.A. RAINEY

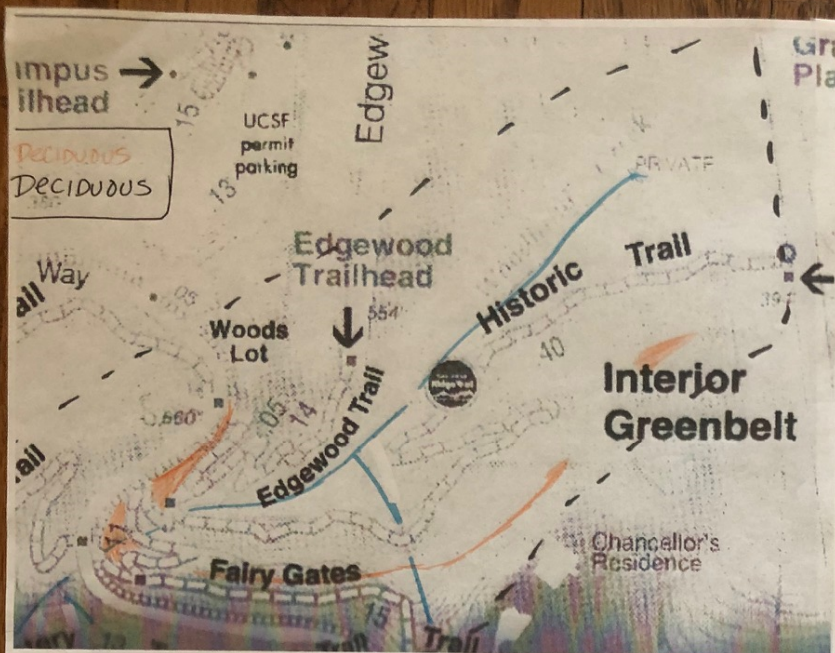


Plant vegetation on North Side of Creek, close to creek and further North that is MEDIUM height when mature (3-6 ft tall)

- coffeeberry
- cenothus - medium ht variety
- cow parsnip (deciduous)
- Yellow Arbor Lupine
- Artemisia
- Mugwort
- Ocean spray
- Thimbleberry
- Twinberry
- chinquapin

2/4  
M. RAINEY



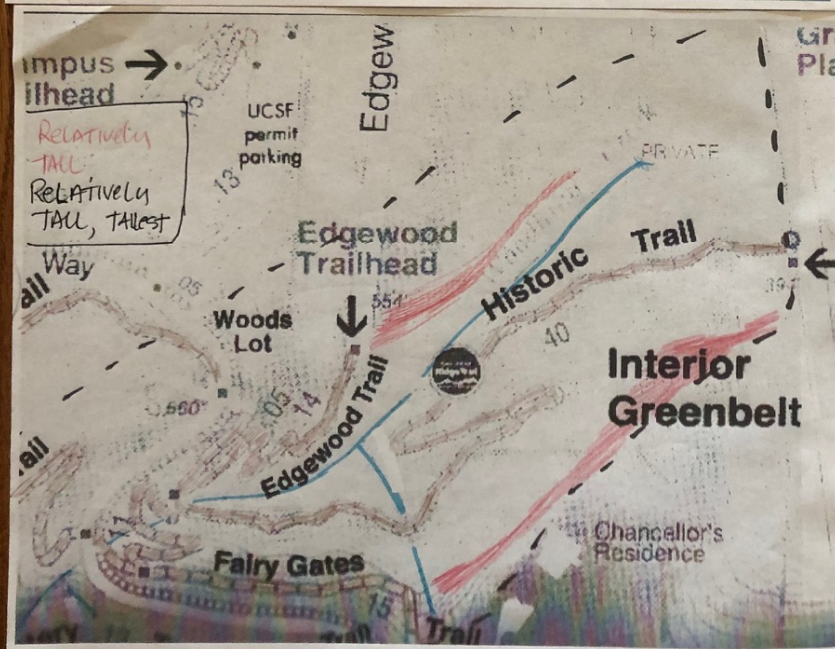


Plant Vegetation between medicine center way + lower WCC, between Fairy Gates + WCC and to the far south contour of canyon that is deciduous and tall.

• red elderberry

that likes shade  
• ferns

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PLANT vegetation on the North Side of creek (between creek + buildings to the North) that is relatively tall when mature (up to 30 feet tall)

(Willow) quitman  
• WAX MYRTLE  
• CRIST LIVE OAK  
• Red elderberry (deciduous)

• Bay Laurel (Debatable MAYBE)  
• TAN OAK ("")  
• TOYON - tallest

• Buckeye  
• Big Leaf MAPLE

Vines in trees

• Honeysuckle  
• Pipevine  
? (Poison oak berries provide food for Wreath in Winter - can vine high in trees?)  
• Manzanita in full sun - can become very tall, certain varieties.

DO NOT PLANT trees that grow very quickly + die quickly. (ugly) take all of the sunlight

- Monterey Cypress
- Monterey PINE
- Eucalyptus NO!
- Acacia NO!
- Redwood NO (too thirsty)

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Goals per Maryann Riney: VISIONING 9/24/2023

- Create + preserve sight lines to the Creek, requiring a minimum of maintenance in the future. Canopy of TOYON, tallest trees
- Optimize view of creek, of running water + of creek sides from Historic Trail (primarily) and Edgewood TRAIL.
- Optimize Biodiversity using locally Native plants.
- attract + provide homes for cavity nesters (flickers, owls) by use of bird boxes + maintenance of rotting trees. Boxes need to be monitored to prevent infestation of Starlings.
- What to say about Ravens + crows?
- Habitat Maintenance on an annual, 3yr, 5yr, 10 yr timeline.
  - Prune shrubs + trees (and over time remove trees) to maintain sight lines, to preserve a view of the creek, so the hiker CAN see wrens creekside.
- Pretend that FIRE passes through every 2-3 years to drastically thin vegetation, to allow sunlight to reach the soil, and to allow air circulation.
- Pretend herbivores pass through every 6 months to drastically thin vegetation, particularly 5 feet and below, within reach of deer or elk.
- Mulch plants in canyon with chipped + /or Composted prunings.
- Create tunnels for opossums, Coyotes ... reptiles?
- Monitor bird + mammal + reptile populations to evaluate success:
  - Summer Swainson's Thrush
  - Winter Hermit Thrush.
  - populations maintained -
  - Pacific Wren year round.

Examples of problems 5-10 years after habitat renewal.

El Polini Creek - The Presidio -

The pond at the north end is obstructed from view by a dense, buff tall thicket of Coyote BRUSH. I resent this. In J.F., ponds and creeks are rare. I want to be able to see the creatures visiting the pond.

Of course, pond side vegetation growth will be vigorous ... due to the sufficiency of water. PRUNING annually is essential, and natural.

Bog TRAIL in San Bruno State Park

The creek is CHOKED with vegetation. Clearly water is present, but covered with vines.

~~effects~~  
Monterey cypress, Monterey Pine, IVIES, COTTONWOOD, EUCALYPTUS, and Himalian Blackberry are prominent, taking the sunlight + water. It is also ugly, to my eye.

Positive Model

MY VISION:

Redwood Creek in Muir Woods as seen from a trail

I recall seeing on many separate days a Pacific Wren picking at the mosses creekside, with ferns above.

I also saw brown bats flying over the creek for hours! eating insects MIDDAY.

Maryann Riney 9/25/2023



# CLOSING THOUGHTS

## What is one thing you are feeling inspired by or taking with you from the workshop?

- Tom: SFRPD and UCSF joining management plans, and engaging neighbors to manage their backyards differently
- Kelly: How can plants/habitat fits into each of the breakout rooms plans
- Whitney: WCC restoration can be a model for other restoration projects in the city
- Bridget: Taking the work we've done today back to the GROWTH project, what does accessibility mean to them? We can do things at Sutro Stewards without UCSF
- Emma: Seeing how different players come together to restore the creek
- Ben: Seeing old friends
- Abigail: So many professionals at the table and inspired by 5 acres landback
- Edith: Inspired by how many people care about the creek
- Pat: Inspired by the water management and how it benefits the wildlife
- Maryann: Inspired by the hydrology, it was eye opening
- Paul: Everyone coming together with all of their knowledge
- Lew Stringer, Presidio Trust: Inspired by the shared vision
- Morgan: Inspired by the collaboration
- Charles: Inspired by the collaboration to bring attention and enhance the mountain. Everyone's taking care of the drainage problem
- Rusty: Feeling like there's a solution
- Laura: Counter-narrative of the doom loop, this is the bloom loop. Good vision to start
- Karen: inspired by the hydrology experts coming together to create a vision
- Matthew: Inspired by how all of this comes together
- Chris: Inspired by everyone coming together and looking at all of perspectives
- Bob: Will to provide a livable environment for wildlife and humans, this feels historic
- Steve: Opportunity for collaboration
- Nick: Collaboration
- Peter: Inspired by how far we've come
- Kirstin: Inspired by what we can achieve together