Mission Canyon Stream Restoration Project

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Background

Stream Restoration Project Description

Schedule and Project Timeline

Questions and Discussion



Background



Stream Restoration Project: Background

Mission Canyon Incident Overview

- In December 2019, Southern California Edison (SCE) performed road grading and vegetation management
- Rock/ spoils were discharged onto slopes supporting native habitat and into Mission Creek
- This caused impacts to:
 - native vegetation communities,
 - sensitive plant populations,
 - native trees,
 - sensitive wildlife,
 - streambed, resources, and
 - additional indirect impacts to the Mission Canyon ecosystem.
- Full restoration of this habitat to conditions existing prior to the December 2019 work, including habitat features within the stream, is a primary goal of the Stream Restoration Project.



Soil and rock was discharged directly into Mission Creek



Boulders and rocks deposited against native trees



Stream Restoration Project: Background

2019 INCIDENT RESPONSE

SCE's actions in response to the 2019 incident include:

- SCE implemented emergency site stabilization: Dec. 2019 March 2020
 - addressed immediate public safety and erosion within the road
- SCE completed weed abatement: First weed abatement June 2020
 - 6th weed event begins June 7, 2023
- SCE implemented the Road Repair Project: August Nov. 2020
 - reduced and reconfigured roadside berms
 - removed loose rocks from exposed uphill surfaces ("scaling")
 - installed a rockfall protection drapery over exposed rock ("rock wall")
 - remediated native trees affected by the 2019 incident
- Proposed: The Stream Restoration Project is proposed to repair damage to natural areas, trees, and sensitive plants (anticipated start August 2023)

Stream Restoration Project: Scope Development

- December 2020: SCE Develops first draft of the proposed Stream Restoration Project Habitat Restoration Plan
- February 2023: SCE submits 6th Version of the Habitat Restoration and Mitigation Plan to CDFW
- April 2023: California Department of Fish and Wildlife (CDFW, CEQA lead agency) Accepts the Project Description in the HRMP and initiates CEQA
- HRMP reflects changes SCE made in response to the following:
 - CDFW Comments (January 2021, March 2021, May 2021 and July 2021, June 2022, Dec. 2022), coordination meetings and supplemental materials
 - Mission Canyon Association Comments (April 2020, Feb. 2022), and onsite meeting August 2020
 - Santa Barbara County Comments (May 2021, June 2023)
 - Santa Barbara Botanic Garden (May 2021)
 - Information from Project surveys (December 2019 through October 2022)

Stream Restoration Project: Scope Development

COMMENTS FROM CDFW, COUNTY, SBBG, AND MCA

SB County:

- Removal of all sidecast material
- Restoration of all impacted upland areas
 MCA:
- Evaluate road turn outs expanded by the incident
- Calculate detailed sidecast volumes
- Assess alternative removal techniques

CDFW:

- Reassess and <u>expand</u> the Project description for <u>maximum</u> removal
- Perform an assessment of alternative construction techniques
- Incorporate compensatory mitigation as part of the Project

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| appreciate SCE's pres sequent invitation to co | MEMORANDUM LAW OFFICE OF MARC CHYTILO, APC |
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| and debris was discar | TO: DAS WILLIAMS, CHRIS SCHMUCKEL |
| E and MCA had many o | SUBJECT: SCOPE OF ENVIRONMENTAL REVIEW TO INCLUDE IMPACTS TO |
| gation and compensati | LANDS UNDER COUNTY JURISDICTION |
| vities. SCE reached ou | DATE: 2/2/22 |
| Inty Planning and Deve d Use Permit to addres acts to resources now purces, visual resource | The following explains and describes the need for the project description in the SCE Mission Canyon Road Repair Project Restoration Plan to be expanded to include review of restoration and mitigation activities for impacts to lands in the County's jurisdiction, in addition to the restoration and mitigation required to address impacts to lands in the California Department of Fish and Wildlife's jurisdiction. |
| | 1. History of 2019 Unpermitted Activities and SCE's Commitments |
| <u>mum</u> | The SCE and MCA had many discussions through 2020 concerning the process for SCE's providing restoration, mitigation and compensation for all of the December 2019 unpermitted grading and rock scaling activities ("2019 Unpermitted Activities") and their impacts. SCE reached out, attended a meeting of the MCA Board of Directors, and promised to completely restore habitat impacted by, and to otherwise mitigate for all impacts from the 2019 Unpermitted Activities, to undertake comprehensive environmental review of all elements of the 2019 Unpermitted Activities and related restoration and mitigation, and generally to be a responsible neighbor and make all things right. As a consequence, the LUPs were not appealed in order to let the initial emergency permit issue as well as the follow-up LUP authorizing limited "triage" work to stabilize and improve safety along the road, including highly impactful Rock Drapery, while long-term plans and environmental review was developed. Santa Barbara County Planning and Development Department committed that they would issue a subsequent Land Use sassociated with the 2019 Unpermitted Activities <u>net</u> under CDFW's jurisdiction, specifically upland habitat (scaled rock cliffs, chaparral, sidecast rocksilize and debris), recreational resources (from trail closures and harm to the quality of the trail experience), visual resources |

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Stream Restoration Project Description: SIDECAST VOLUME ESTIMATES

- SCE has conducted **four** estimates of the volume deposited during the Dec. 2019 work.
- Each estimate increased precision of sidecast volumes.
- Estimates with greatest accuracy used for the Project; baseline (Oct. 2022) : 2,332 Cubic Yards

<u>1) Jan. – April 2020</u>: Light-detecting remote sensing imagery used to collect initial estimates

Used for calculating penalty paid by SCE in Settlement Agreement

2) Nov. 2020: Field-verified volume estimates Creek and CDFW areas

• Used engineering equipment to directly measure dimensions and depths

3) September 2021: Field-verified volume estimates of 'outlying rocks'

• Areas and volume estimates of outlying rocks added to total estimate of material

4) August 2022: Field-verified volume estimates of upland sidecast areas

- Calculated detailed volume estimates using 29 physical depth measurements
- Included distribution and composition of materials (e.g., rock size, soils/ fines)

Stream Restoration Project: Scope Development

2022 Comparative Scoping Analysis resulted in changes to Project Description:

Stream Project Revised

- SCE's Proposed Project will target in nearly 100% removal in all areas, with discreet areas with possible limits to removal
- Maximum extraction of sidecast material without causing harm to sensitive environmental resources, while maintaining a safe working environment

Scope Highlights Include:

- The use of helicopter support to air lift materials from remote sections of the Project.
- The use of manual removal methods to extract all materials deposited off Tunnel Trail road where vehicle access is also limited.
- Berm height in upper road areas above the creek 5-9 will be limited to 1 ½ feet

Project Description





- Native trees
- Stream hydrology and water quality

Stream Restoration Project: OVERVIEW

Stream Restoration Project Goals:

- Full removal of all sidecast material
- **Restore** stream hydrology
- Stabilize creek banks and slopes
- Remediate and mitigate for impacted native trees
- **Restore** woodland/forest *and* upland chaparral habitats
- **Rehabilitation** of sensitive species populations

- The Project is specifically designed for the full removal of sidecast rock and sediments..., to restore stream hydrology (e.g., pools and riffles) and habitat within the Project area to support native fish use to levels that existed prior to the December 2019 work, and to stabilize creek banks and slopes.
- The Project will also restore impacted native vegetation habitats and promote the regrowth of chaparral and woodland/ forest habitats, rehabilitate sensitive species populations within the Project site, and remediate impacted trees within Mission Creek.

Stream Restoration Project Description: SIDECAST REMOVAL METHODS





MISSION CANYON STREAM RESTORATION PROJECT, SUPPLEMENTAL SHE ASSESSMENT AND PROJECT SCOPING ANALYSIS

Proposed Project Overview: Method of Sidecast Removal by Sidecast Area

Stream Restoration Project Description: HAND AND GUZZLER REMOVAL METHODS

Typical Side Cast Removal Cross-section Schematic Guzzler Truck Cam-lock connection Approximate hard pipe length 25'-30' Approximate flex hose length 20' - 125' ROADBED Hard pipe section is attached to K-Rail with Red Heads and C 1:3 to 1:1 clamps, K-Rail has chain link SLOPE fence mounted on top K-Rail.

- Use Guzzler trucks to "vacuum" smaller material
- Larger rocks will be broken manually
- Excavator or forklift staged in the road to pull up the material
- Rocks will be stockpiled, loaded and hauled to landfill
- Some materials will be processed using a rock crusher and used for berm reconstruction
- All Equipment staged in road areas
- All Material hauled off by end of construction

Stream Restoration Project Description: HELICOPTER REMOVAL

- Large boulders and rock 300 feet from roadside
- No foot or road access
- Use light duty SCE helicopter
- Rock will be manually broken or drilled and injected with an expansive rock breaking agent
- Rock will be loaded by hand crews and staged to minimize flight time
- Helicopter will hover approx. 100-150 above ground
- Flight Duration approx. 3 days
- Will require special training, sterile flight path, safety and fire prevention measures in place



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Stream Restoration Project Description: HAND REMOVAL

- Consist of scattered rocks intermixed with existing vegetation
- Areas only accessible by foot
- Technicians using fall protection to manually remove rocks and transfer up slope by hand
- Large rocks will be broken; smaller fragments may be placed in packs
- Material will be collected in the road, and transported to designated storage area for haul off



Stream Restoration Project Description: HABITAT

Habitat Restoration

1.34 acres Forest and Woodland Habitats

1.50 acres for Upland Habitats

2.88 Total Revegetation Acres

Forest and Woodland Habitats

- Native seed mix
- Planting shrubs, trees and cuttings
- Focus on controlling erosion and restoration of forest canopy structure

Upland Habitats

- Native seed mix
- Select use of plantings, and acorns in transitional areas
- Focus on erosion control and non-native species

Staging and Storage Areas Planned for Restoration



Select staging areas and one additional location previously disturbed (non-SCE related) will be restored to native habitats following Project construction.

Stream Restoration Project Description: SENSITIVE PLANTS AND TREES

Direct impacts to sensitive plants will be addressed by:

- Local collection of propagules and propagation by the Botanic Garden
- Plants/ seeds will be planted in plots within the project area
- Successful when evidence of reproduction is observed in 75% of the plots
- Consult with SB Botanic Garden and other botanical experts

Impacts to trees will be addressed by:

- Remedial treatments to 30 impacted trees
- Planting 90 trees and acorns:
- 12 Trees with 'Major impacts' will be **mitigated at 5:1** (60 trees)
- 30 with 'Moderate impacts will be **mitigated at 1:1** (30 trees)
- Perform annual trees health assessments
- Minimum of 90 trees successfully established



Stream Restoration Project Description: PROPOSED COMPENSATORY MITIGATION

- Compensation for residual impacts that cannot be resolved through the habitat restoration or by other mitigating actions undertaken by SCE.
- Residual impacts fall into two categories:
 - 1. Temporary loss of ecological function of CDFW-regulated habitats ("Temporal Habitat Loss"),
 - 2. Sidecast material deposited on the Project site by the December 2019 work that is no longer recoverable ("Unrecovered Sidecast").
 - To compensate, SCE has proposed to **fund an endowment** held by a CDFWapproved entity, directed by CDFW, to benefit regional conservation efforts.
 - SCE is working with the County to resolve residual impacts to **recreation and visual/aesthetic resources**.

Stream Restoration Project Description: COMPLIANCE AND SAFETY

Construction and Compliance Plans

- Fire Plan
- Biological Monitoring Plan
- Paleo and Cultural Resources Plans
- Technical Implementation Plan (stream)
- Construction Plan
- Traffic Control/ Trail Closure
- Others

Safety

- Full time onsite Safety Officer
- Specialty training for Air Ops
- Pre-job safety training and job walk
- Full time fire watch, security and safety officers
- Safety Observation Program (contractor and SCE)
- All "high-incline" work require fall protection
- Daily safety inspections, tailboards and site tailboards

Stream Restoration Project: TIMELINE

- 2023 CEQA and Permitting
 - CEQA Draft Release for 30-day Public Review expected early June 2023
 - All Environmental Permits, County LUP and Grading Permits needed by early August 2023 to meet short in-stream construction window
- 2023-2024 Construction Window (weather dependent)
 - Target Creek Implementation: August to November
 - Upland Habitat Implementation: November to March
- 2024-2029 Habitat Monitoring
 - Monitor habitat recovery and conduct biological surveys

Questions

