



Document Description:

A PDF text file of the project's approved environmental compliance package containing the letter of compliance completion, categorical exclusion form, environmental screening form, and any other associated environmental clearance forms, as applicable (e.g., Wilderness Minimum Requirement Analysis, Wild and Scenic River Section 7 Analysis). The signed originals of the package are on file in the Environmental Planning and Compliance Office at Yosemite National Park.

Letter of Compliance Completion

To: Ansley Singer, Project Manager, Yosemite National Park

From: Cicely Muldoon, Acting Superintendent, Yosemite National Park

Subject: NEPA and NHPA Clearance: 2020-079 Mist Trail Visitor Safety Railing and Widening Improvements (2020) (PEPC: 90959)

The Superintendent and park interdisciplinary team have reviewed the proposed project and completed an impact analysis and documentation, and have determined the following:

- There will not be any effect on threatened, endangered, or rare species and/or their critical habitat.
- There will be no adverse effect to historic properties.
- There will not be serious or long-term undesirable environmental or visual effects.

The subject proposed project, therefore, is now cleared for all NEPA and NHPA compliance requirements as presented above. Project plans and specifications are approved, and construction and/or project implementation can commence.

Required Mitigations - For the proposed project actions to be within compliance requirements during construction and/or project implementation, the following mitigations must be adhered to:

- The project will be implemented in the low-visitation season to minimize impacts to visitor experience and access if at all possible.
- If previously unknown archeological resources are discovered during construction, all work in the immediate vicinity (600 feet) of the discovery shall be halted until the resources are identified and documented and an appropriate mitigation strategy developed, if necessary, in accordance with pertinent laws and regulations, including the stipulations of the 2008 Programmatic Agreement Among the National Park Service (U.S. Department of the Interior), the Advisory Council on Historic Preservation, and the National Conference of State Historic Preservation Officers.
- Trail tread and step work will be limited to repair or replacement in-kind (materials, alignment, design), with some widening in sections where edge is unsafe or safe travel is limited in width. The proposed safety railing will be constructed to match the existing safety railings along other sections of the Mist Trail. The rail will be constructed with non-galvanized steel, so that the rail will rust over time and blend with its surroundings.

- Proper storage and disposal of food and garbage keeps wildlife wild. All staff will be trained in proper storage and disposal of food/trash. All food, toiletries, drinks, scented items, and food containers must be stored in accordance with park regulations. Food lockers or approved bear canisters must remain closed and latched/secure, unless items are within arms-reach of an awake person. The project manager or Contractor must designate an employee to monitor the work site daily for food and food containers. Proper food storage is required by law. Project staff must call the Save-a-Bear hotline (209) 372-0322 to report overflowing trash containers, improperly stored food, or bear sightings.
- Project scope: Only project activities described in PEPC 90959 and explicitly approved by the NPS are authorized by this CE. Any additional actions or modifications to the project must be approved by the NPS and may require separate compliance and/or consultations under the National Historic Preservation Act.
- If rocks at the lower section of the trail are moved as part of this project, contact Rob Grasso for potential wildlife monitoring.
- Soil decompaction, possible fill, and vegetation restoration of trail edges is suggested following trail improvement. If trail crew does not do this themselves, please contact Vegetation for assistance.
- Safety- Employees working on the project will need to have fall protection. At the commencement of the project the Safety team will visit the project site to inspect fall protection for compliance.

Acting Superintendent: *Cicely Muldoon* **Date:** *July 15 2020*

*The signed original of this document is on file at the
Environmental Planning and Compliance Office in
Yosemite National Park.*



Categorical Exclusion Documentation Form (CE Form)

Project: Mist Trail Visitor Safety Railing and Widening Improvements (2020)

PEPC Project Number: 90959

Description of Action (Project Description):

The Mist Trail is the second most traveled trail in the National Park Service inventory and can see over 5,000 hikers per day during peak season.

This project will improve the safety of a section of the Mist Trail which has frequent accidents (see enclosed map). This project will add railing to the two remaining areas of high exposure on the Mist Trail that do not currently have railing (a lower section of 180ft and an upper section of 520ft). This will make a continuous barrier for 1,230 ft through the most treacherous section of trail. (Additional railing was installed per PEPC 90372 however further improvements are needed.)

Additionally, the trail bed will be protected from erosion and the vegetation within the trail corridor will be protected from trampling.

Pipe railing will be installed on the north side (river side) of the trail on existing rocks steps. Railings will be constructed out of rustic pipe tubing (1 5/8") with Kee Klamps at each junction. There will be three horizontal railings with a span between vertical posts of between 7 and 10 feet (matching the existing railings). 75 to 100 holes will be drilled depending on terrain and trail conditions.

In addition to the railings, the project will widen the trail in a section that is too narrow for visitors to safely pass each other (see attached map). The area that requires widening runs for approximately 1000 linear feet; thin sections are roughly 3 feet wide, with insufficient space for hikers to pass each other safely. The park would widen thin sections to 6 feet wide using tread building and rock work.

Fatal accidents have occurred when visitors try to pass each other on this section of trail and one of the parties is bumped off into the riverbed below. Erosion has further narrowed the trail, which will be remedied by this project. Allowing folks to pass on established trail will benefit the surrounding vegetation and slope conditions without trampling as visitors attempt to pass.

Work will be completed by NPS trail crew during the late summer to early winter of 2020. Most of the work will be done in times of low water so that work areas are less wet and dangerous. Visitors will be re-routed to the John Muir Trail while the Mist Trail is closed for this project.

Mitigation(s):

- The project will be implemented in the low-visitation season to minimize impacts to visitor experience and access if at all possible.
- If previously unknown archeological resources are discovered during construction, all work in the immediate vicinity (600 feet) of the discovery shall be halted until the resources are identified and documented and an appropriate mitigation strategy developed, if necessary, in accordance with pertinent laws and regulations, including the stipulations of the 2008 Programmatic Agreement Among the

National Park Service (U.S. Department of the Interior), the Advisory Council on Historic Preservation, and the National Conference of State Historic Preservation Officers.

- Trail tread and step work will be limited to repair or replacement in-kind (materials, alignment, design), with some widening in sections where edge is unsafe or safe travel is limited in width. The proposed safety railing will be constructed to match the existing safety railings along other sections of the Mist Trail. The rail will be constructed with non-galvanized steel, so that the rail will rust over time and blend with its surroundings.
- Proper storage and disposal of food and garbage keeps wildlife wild. All staff will be trained in proper storage and disposal of food/trash. All food, toiletries, drinks, scented items, and food containers must be stored in accordance with park regulations. Food lockers or approved bear canisters must remain closed and latched/secure, unless items are within arms-reach of an awake person. The project manager or Contractor must designate an employee to monitor the work site daily for food and food containers. Proper food storage is required by law. Project staff must call the Save-a-Bear hotline (209) 372-0322 to report overflowing trash containers, improperly stored food, or bear sightings.
- Project scope: Only project activities described in PEPC 90959 and explicitly approved by the NPS are authorized by this CE. Any additional actions or modifications to the project must be approved by the NPS and may require separate compliance and/or consultations under the National Historic Preservation Act.
- If rocks at the lower section of the trail are moved as part of this project, contact Rob Grasso for potential wildlife monitoring.
- Soil decompaction, possible fill, and vegetation restoration of trail edges is suggested following trail improvement. If trail crew does not do this themselves, please contact Vegetation for assistance.
- Safety- Employees working on the project will need to have fall protection. At the commencement of the project the Safety team will visit the project site to inspect fall protection for compliance.

CE Citation: C.19 Construction or rehabilitation in previously disturbed or developed areas, required to meet health or safety regulations, or to meet requirements for making facilities accessible to the handicapped.

CE Justification:

Project will address critical safety concerns along this section of trail.

Decision: I find that the action fits within the categorical exclusion above. Therefore, I am categorically excluding the described project from further NEPA analysis. No extraordinary circumstances apply.

Acting Superintendent: Cicely Muldoon

Date: July 15 2020

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Extraordinary Circumstances:

If implemented, would the proposal...	Yes/No	Notes
A. Have significant impacts on public health or safety?	No	Project will lead to increased public safety along this section of trail.
B. Have significant impacts on such natural resources and unique geographic characteristics as historic or cultural resources; park, recreation, or refuge lands; wilderness areas; wild or scenic rivers; national natural landmarks; sole or principal drinking water aquifers; prime farmlands; wetlands (Executive Order 11990); floodplains (Executive Order 11988); national monuments; migratory birds; and other ecologically significant or critical areas?	No	
C. Have highly controversial environmental effects or involve unresolved conflicts concerning alternative uses of available resources (NEPA section 102(2)(E))?	No	
D. Have highly uncertain and potentially significant environmental effects or involve unique or unknown environmental risks?	No	
E. Establish a precedent for future action or represent a decision in principle about future actions with potentially significant environmental effects?	No	
F. Have a direct relationship to other actions with individually insignificant, but cumulatively significant, environmental effects?	No	
G. Have significant impacts on properties listed or eligible for listing on the National Register of Historic Places, as determined by either the bureau or office?	No	
H. Have significant impacts on species listed or proposed to be listed on the List of Endangered or Threatened Species, or have significant impacts on designated Critical Habitat for these species?	No	
I. Violate a federal, state, local or tribal law or requirement imposed for the protection of the environment?	No	
J. Have a disproportionately high and adverse effect on low income or minority populations (EO 12898)?	No	
K. Limit access to and ceremonial use of Indian sacred sites on federal lands by Indian religious practitioners or adversely affect the physical integrity of such sacred sites (EO 130007)?	No	
L. Contribute to the introduction, continued existence, or spread of noxious weeds or non-native invasive species known to occur in the area or actions that may promote the introduction, growth, or expansion of the range of such species (Federal Noxious Weed Control Act and Executive Order 13112)?	No	



ENVIRONMENTAL SCREENING FORM (ESF)

Updated Sept 2015 per NPS NEPA Handbook

A. PROJECT INFORMATION

Project Title: Mist Trail Visitor Safety Railing and Widening Improvements (2020)
PEPC Project Number: 90959
Project Type: Other Maintenance Activities (MNT)
Project Location:
County, State: Mariposa, California **District, Section:** Valley, Mist Trail
Project Leader: Ansley Singer

B. PROJECT DESCRIPTION

See Categorical Exclusion Form.

C. RESOURCE IMPACTS TO CONSIDER:

Resource	Potential for Impact	Potential Issues & Impacts
Air Air Quality	None	
Biological Nonnative or Exotic Species	None	
Biological Species of Special Concern or Their Habitat	None	
Biological Vegetation <i>Vegetation</i>	Potential	Issue: Soil compaction and vegetation damage is possible along trail edges. Impact: Soil decompaction, possible fill, and vegetation restoration of trail edges is suggested following trail improvement.
Biological Wildlife and/or Wildlife Habitat including terrestrial and aquatic species <i>Wildlife Behavior</i>	Potential	Issue: Proper food storage and trash disposal are required to protect natural wildlife behavior and prevent food conditioning. Impact: Follow resource protection measures regarding food and trash storage.

Resource	Potential for Impact	Potential Issues & Impacts
Cultural Archeological Resources	Potential	Issue: Project involves using rock drilling and trail widening- inadvertent discoveries of archaeological resources are possible. Impact: Follow resource protection measures regarding inadvertent discoveries.
Cultural Cultural Landscapes <i>Historic Mist Trail</i>	Potential	Issue: Trail contributes to the Yosemite Valley Historic District Impact: Follow resource protection measures to ensure no adverse impacts to the historic property. Widening work is expected to have no adverse effect on the trail.
Cultural Ethnographic Resources	Potential	Issue: The project area may encompass areas that include ethnographic resources. Impact: Traditionally associated tribes and groups have been consulted for the identification of historic properties with religious and cultural significance; no comments were received.
Cultural Museum Collections	None	
Cultural Prehistoric/historic structures <i>Historic Mist Trail</i>	Potential	Issue: The project proposes work along the historic Mist Trail, a structure that contributes to the Yosemite Valley Historic district. Impact: Follow resource protection measures to ensure no adverse impacts to the historic property. Widening work is expected to have no adverse effect on the trail.
Geological Geologic Features	None	
Geological Geologic Processes	None	
Lightscapes Lightscapes	None	
Other Human Health and Safety <i>Safety</i>	Potential	Issue: A dangerous, popular section of the Mist Trail poses safety hazards to visitors during wet, crowded conditions. Impact: Project will have positive impact on visitor safety by addressing the slip/fall risk along a steep, slippery, and narrow trail section.
Other Operational <i>Protection Division Operations</i>	Potential	Issue: The problematic trail section has resulted in fatalities and technical search and rescue operations. Impact: Project will have beneficial impact on protection division operations by reducing the risk of visitor fatalities and rescues, which are managed by their division when they occur.
Other Other	None	

Resource	Potential for Impact	Potential Issues & Impacts
Socioeconomic Land Use	None	
Socioeconomic Minority and low-income populations, size, migration patterns, etc.	None	
Socioeconomic Socioeconomic	None	
Soundscapes Soundscapes	None	
Viewsheds Viewsheds	Potential	<p>Issue: Views from Vernal Falls overlook (top of falls) may be impacted by the addition of the railing.</p> <p>Impact: While the railing would be conceivably visible from Vernal Falls overlook, the railing would not be readily discernible because of the distance of the trail section from the falls. The railing would be allowed to rust, blending in with the color and texture of the surrounding landscape. Trail tread and step work will be limited to repair or replacement in-kind.</p>
Visitor Use and Experience Recreation Resources <i>Visitor Access</i>	Potential	<p>Issue: The dangerous section of the Mist Trail is anticipated to close for approximately two weeks for installation of the railing and trail widening. The project would occur in the fall when conditions along the trail are drier and visitation is low.</p> <p>Impact: Minor impact on visitor access during the low-visitation season.</p>
Visitor Use and Experience Visitor Use and Experience	Potential	<p>Issue: The section of the Mist Trail proposed for railing installation and widening poses risks to visitors.</p> <p>Impact: Adding the railing and widening the trail will allow visitors to feel more safe and secure while hiking the mist trail, creating a positive impact on visitor experience.</p>
Water Floodplains	None	
Water Marine or Estuarine Resources	None	
Water Water Quality or Quantity	None	
Water Wetlands	None	

Resource	Potential for Impact	Potential Issues & Impacts
Water Wild and Scenic River <i>Merced Wild and Scenic River</i>	Potential	Issue: Work is proposed within a Wild and Scenic River corridor. Impact: Work will not diminish outstandingly remarkable values (ORVs) of the Merced Wild and Scenic River.
Wilderness Wilderness	None	



ASSESSMENT OF ACTIONS HAVING AN EFFECT ON HISTORIC PROPERTIES

A. DESCRIPTION OF UNDERTAKING

1. **Park:** Yosemite National Park

2. **Project Description:**

Project Name: Mist Trail Visitor Safety Railing and Widening Improvements (2020)

Prepared by: Ninette Daniele **Date Prepared:** 02/25/2020 **Telephone:** (209) 379-1457

PEPC Project Number: 90959

Locations:

County, State: Mariposa, CA **District, Section:** Valley, Mist Trail

Describe project:

See Categorical Exclusion form.

Area of potential effects (as defined in 36 CFR 800.16[d])

The APE includes a 660-foot section of the Mist Trail, where 540 linear feet of safety railing would be added to the existing 120 feet of safety railing, as well as those short portions of the trail approaching from either direction. The approaches to this section of trail are within a narrow, rocky canyon, so views of the proposed railing would be mostly limited to the immediate vicinity (100 feet in either direction) and the top of the falls. Equipment would be manually carried to the work site and will be staged on existing disturbed areas along the trail during construction. While the proposed railing would be visible from Vernal Falls overlook (top of falls), the railing would be minimally discernible because of the distance of the trail section from the falls (approximately 240 feet in line of sight). The railing, which would be allowed to rust, would blend with the color and texture of the surrounding rocky landscape. The proposed railing would not be visible from Vernal Footbridge, as the trail is screened by the forested landscape from this vantage point. The vertical APE would not exceed 15 inches and is associated with the need to securely anchor vertical rail supports into the rocky substrate.

The area that requires widening runs for approximately 1000 linear feet within the same section of trail described above and a portion of the previous safety railing project (90372) and consists of thin sections which are currently roughly 3 feet wide. The park would widen thin sections to 6 feet wide using tread building and rock work. Visual impacts would be the same as those described above.

3. **Has the area of potential effects been surveyed to identify historic properties?**

☐ No

☒ Yes

Source or reference:

4. **Potentially Affected Resource(s):**

Archeological Resources Present: No

Archeological Resources Notes: Archeological survey in the project area was completed in 1976 and 2018 and no archeological sites have been identified within or adjacent to proposed ground-disturbing activities.

Historical Structures/Resources Present: Yes

Property Name: Yosemite Valley Historic District **LCS:**

Historical Structures/Resources Notes: The Mist Trail is a contributing structure within the historic district which that was listed on the National Register in 2006. The district is identified as a cultural landscape of national significance under Criteria A and C. The period of significance for the district is 1855-1942. The Mist Trail was constructed in 1858 and was the first trail in the valley built specifically as a scenic route for visitors. It was thought to have followed an earlier trail used by Native peoples to hike up to Little Yosemite Valley. Leading from the Happy Isles area to the tops of Vernal Fall and Nevada Fall, it is one of the oldest trails in the valley.

Cultural Landscapes Present: Yes

Property Name: Yosemite Valley Historic District **LCS:**

Ethnographic Resources Present: No

Ethnographic Resources Notes: No known ethnographic resources are located in the project area though the Merced River and Vernal Fall have previously been identified by Yosemite's seven traditionally associated American Indian tribes and groups as important cultural resources. The trail from Yosemite Valley up to Little Yosemite Valley may have also followed a route similar to the one that the Mist Trail currently follows and may be part of the larger Mono Trail network, which spanned from the east side of the Sierra Nevada crest to Yosemite Valley. The park's American Indian Liaison has provided the tribes with the project plans including a description of the undertaking through the tribal spreadsheet. No comments or concerns have been received.

5. The proposed action will: (check as many as apply)

☒ **No** Destroy, remove, or alter features/elements from a historic structure

☒ **No** Replace historic features/elements in kind

☒ **No** Add non-historic features/elements to a historic structure

☒ **No** Alter or remove features/elements of a historic setting or environment (inc. terrain)

☐ **Yes** Add non-historic features/elements (inc. visual, audible, or atmospheric) to a historic setting or cultural landscape

☒ **No** Disturb, destroy, or make archeological resources inaccessible

☒ **No** Disturb, destroy, or make ethnographic resources inaccessible

☒ **Yes** Potentially affect presently unidentified cultural resources

☐ **No** Begin or contribute to deterioration of historic features, terrain, setting, landscape elements, or archeological or ethnographic resources

☒ **No** Involve a real property transaction (exchange, sale, or lease of land or structures)

☐ **Other (please specify):** _____

6. Supporting Study Data:

(Attach if feasible; if action is in a plan, EA or EIS, give name and project or page number.)

B. REVIEWS BY CULTURAL RESOURCE SPECIALISTS

The park 106 coordinator requested review by the park's cultural resource specialist/advisors as indicated by check-off boxes or as follows:

[X] 106 Advisor

Name: Madelyn Ruffner

Date: 03/10/2020

Check if project does not involve ground disturbance [☐]

Assessment of Effect: ☐ No Potential to Cause Effect ☐ No Historic Properties Affected ☒ No

Adverse Effect ☐ Adverse Effect ☐ Streamlined Review

Recommendations for conditions or stipulations:

Doc Method: Standard 4-Step Process

[X] Anthropologist

Name: Scott Carpenter

Date: 02/25/2020

Comments: Project Phase II update included as informational item on March 2020 tribal spreadsheet.

Check if project does not involve ground disturbance [☐]

Assessment of Effect: ☐ No Potential to Cause Effect ☐ No Historic Properties Affected ☒ No

Adverse Effect ☐ Adverse Effect ☐ Streamlined Review

Recommendations for conditions or stipulations:

Doc Method: Standard 4-Step Process

[X] Archeologist

Name: Wesley Wills

Date: 04/28/2020

Comments: The project area was archeologically surveyed in 2018 and no cultural materials have been identified. No additional archeological work is recommended.

Check if project does not involve ground disturbance [☐]

Assessment of Effect: ☐ No Potential to Cause Effect ☐ No Historic Properties Affected ☒ No

Adverse Effect ☐ Adverse Effect ☐ Streamlined Review

Recommendations for conditions or stipulations:

Doc Method: Standard 4-Step Process

[X] Historian

Name: Scott Carpenter

Date: 02/25/2020

Check if project does not involve ground disturbance [☐]

Assessment of Effect: ☐ No Potential to Cause Effect ☐ No Historic Properties Affected ☒ No

Adverse Effect ☐ Adverse Effect ☐ Streamlined Review

Recommendations for conditions or stipulations: Trail tread and step work will be limited to repair or

replacement in-kind (materials, alignment, design), with some widening in sections where edge is unsafe or safe travel is limited in width.

Doc Method: Standard 4-Step Process

[X] Historical Landscape Architect

Name: Vida Germano

Date: 02/28/2020

Comments: New safety railing will be installed on the segments of the trail where there is none currently. Widening of trail for safety purposes will be in-kind in workmanship and materials. This project will have no adverse effect on the trail.

Check if project does not involve ground disturbance []

Assessment of Effect: ___ No Potential to Cause Effect ___ No Historic Properties Affected X No Adverse Effect ___ Adverse Effect ___ Streamlined Review

Recommendations for conditions or stipulations:

Doc Method: Standard 4-Step Process

No Reviews From: Curator, Historical Architect, Other Advisor

C. PARK SECTION 106 COORDINATOR'S REVIEW AND RECOMMENDATIONS

1. Assessment of Effect:

_____ No Potential to Cause Effects
_____ No Historic Properties Affected
 X No Adverse Effect
_____ Adverse Effect

2. Documentation Method:

[X] A. Standard 36 CFR Part 800 Consultation

Further consultation under 36 CFR Part 800 is needed.

[] B. Streamlined Review Under the 2008 Servicewide Programmatic Agreement (PA)

The above action meets all conditions for a streamlined review under section III of the 2008 Servicewide PA for Section 106 compliance.

Applicable Streamlined Review Criteria

(Specify 1-16 of the list of streamlined review criteria.)

[] C. Undertaking Related to Park Specific or Another Agreement

The proposed undertaking is covered for Section 106 purposes under another document such as a park, region or statewide agreement established in accord with 36 CFR 800.7 or 36 CFR 800.14.

[] D. Combined NEPA/NHPA Process

Process and documentation required for the preparation of an EA/FONSI or an EIS/ROD to comply with Section 106 is in accord with 36 CFR 800.8.c.

3. Consultation Information

SHPO Required: Yes

SHPO Sent: Jun 15, 2020

SHPO Received: Jul 10, 2020

THPO Required: Yes

THPO Sent: Mar 5, 2020

THPO Received: No comments received

SHPO/THPO Notes: Project included in March 2020 tribal spreadsheet as informational item. No comments received.

Advisory Council Participating: No

Advisory Council Notes:

Additional Consulting Parties: No

4. Stipulations and Conditions: Following are listed any stipulations or conditions necessary to ensure that the assessment of effect above is consistent with 36 CFR Part 800 criteria of effect or to avoid or reduce potential adverse effects.

5. Mitigations/Treatment Measures: Measures to prevent or minimize loss or impairment of historic/prehistoric properties: (Remember that setting, location, and use may be relevant.)

Required Mitigations - For the proposed project actions to be within compliance requirements during construction and/or project implementation, the following mitigations must be adhered to:

- If previously unknown archeological resources are discovered during construction, all work in the immediate vicinity (600 feet) of the discovery shall be halted until the resources are identified and documented and an appropriate mitigation strategy developed, if necessary, in accordance with pertinent laws and regulations, including the stipulations of the 2008 Programmatic Agreement Among the National Park Service (U.S. Department of the Interior), the Advisory Council on Historic Preservation, and the National Conference of State Historic Preservation Officers.
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- Project scope: Only project activities described in PEPC 90959 and explicitly approved by the NPS are authorized by this CE. Any additional actions or modifications to the project must be approved by the NPS and may require separate compliance and/or consultations under the National Historic Preservation Act.

6. Assessment of Effect Notes:

D. RECOMMENDED BY PARK SECTION 106 COORDINATOR:

NHPA Specialist: Madelyn Ruffner **Date:** July 13 2020

E. SUPERINTENDENT'S APPROVAL

The proposed work conforms to the NPS *Management Policies* and *Cultural Resource Management Guideline*, and I have reviewed and approve the recommendations, stipulations, or conditions noted in Section C of this form.

Acting Superintendent: Cicely Muldoon **Date:** July 15 2020

*The signed original of this document is on file at the
Environmental Planning and Compliance Office in
Yosemite National Park.*



Other Compliance/Consultations Form

Park Name: Yosemite National Park

PEPC Project Number: 90959

Project Title: Mist Trail Visitor Safety Railing and Widening Improvements (2020)

Project Type: Other Maintenance Activities : Install safety railing

Project Location:

County, State: Mariposa, CA **District, Section:** Valley, Mist Trail

Project Leader: Ansley Singer

ESA

Any Federal Species in the project Area? No

If species in area: No Effect

Was Biological Assessment prepared?

If Biological Assessment prepared, concurred?

Formal Consultation required? No

Formal Consultation Notes:

Formal Consultation Concluded:

Any State listed Species in the Project Area? No

Consultation Information:

General Notes:

Data Entered By: Rachel Mazur

Date: Jul 2, 2020

ESA Mitigations

No ESA mitigations are associated with this project.

Enclosure 1: Photographs



Figure 1: Views of section of Mist Trail proposed for new safety railing and/or widening



Figure 2: Fall zone to be addressed by project



Figure 3: Examples of trail erosion and vegetation trampling



Figure 4: Examples of existing safety railings along the Mist Trail



Figure 5: Lower section of project area: view from below



Figure 6: Upper section of project area: view from above



Figure 7: Upper section of project area: view from below



Figure 8: View from Vernal Fall Overlook towards proposed project area



Figure 9: Vernal Falls View from footbridge (project area obstructed by trees)