Port of Skagway Rock Slide Mitigation

Project Update – Presentation to the Municipality of Skagway Assembly

By: Kyle Brennan, September 1, 2022
August 22 – 26 Site Visit

- LiDAR data collection completed
- Recon of North Slide and South Slide
- Recon of entire slope and ridge
- Rock structure measurements
- Collected samples for strength testing if needed
Current Activities

- Survey data reduction
- Geotech data reduction
- Permitting
- Design scoping
- Contracting alternatives
### Environmental Permitting and Agreements Matrix

**Project Name:** Skagway Slide Repair  
**Project No.:** 19558 100  
**Prepared by:** Sarah Conn, PWS, MSWES  
**Date:** 09/20/2022

<table>
<thead>
<tr>
<th>Permit/Review</th>
<th>Regulating Agency</th>
<th>Regulated Activity/When Needed</th>
<th>Submittal requirements &amp; supporting documents</th>
<th>Estimated time to prepare and submit application</th>
<th>Suggested submittal timing</th>
<th>Estimated Agency Permit Review Timeline</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Federal</strong></td>
<td>US Army Corp of Engineers</td>
<td>Discharge of dredge or fill material into waters of the US</td>
<td>Application for Department of the Army Permit; Biological Assessment; Alternatives Analysis; Cultural Resources Assessment</td>
<td>30 days. Would not submit until biological assessment is ready.</td>
<td>30-60% design</td>
<td>60-120 days includes a 30-day public comment period.</td>
<td>Corps indicated they make efforts to not hold up safety-related projects.</td>
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<tr>
<td></td>
<td>US Army Corp of Engineers</td>
<td>If project is in designated navigation area</td>
<td>Application for Department of the Engineer's permit</td>
<td>60 days. Would not submit until biological assessment is ready.</td>
<td>30-60% design</td>
<td>60 days</td>
<td>Would be processed concurrently with Section 404 permit.</td>
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<td></td>
<td>NMFS and USFWS</td>
<td>Activities with a federal nexus (triggered by federal action)</td>
<td>Biological Assessment</td>
<td>30 days. Would not submit until biological assessment is ready.</td>
<td>30-60% design</td>
<td>60 days</td>
<td>All consultation occurs within the 120-day COE timeline.</td>
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<tr>
<td></td>
<td>US Army Corp/Alaska Office of History and Archaeology, State Historic Preservation Office</td>
<td>Activities with a federal nexus (triggered by federal action)</td>
<td>Cultural Resources Assessment/Review</td>
<td>30 days. Would not submit until biological assessment is ready.</td>
<td>30-60% design</td>
<td>60 days</td>
<td>Can recommend cultural resources consultant if Municipality desires.</td>
</tr>
<tr>
<td><strong>State</strong></td>
<td>AK Dept of Environmental Conservation</td>
<td>Activities requiring a federal permit or discharge of dredge or fill material into waters of the US</td>
<td>CWA 401 Certification Request form; CWA 401 Certification Request; Corps Section 404 application</td>
<td>14 days</td>
<td>30-60% design</td>
<td>60 days includes a 30-day profiling waiting period and a 30-day public review period.</td>
<td>ADEC indicated they could waive the 30-day profiling waiting period if action is urgent.</td>
</tr>
<tr>
<td></td>
<td>AK Dept of Environmental Conservation</td>
<td>Construction activities that disturb one or more acres of land</td>
<td>Notice of Intent Stormwater Pollution Prevention Plan</td>
<td>14 days</td>
<td>60%</td>
<td>5 days</td>
<td>Permits area would include active repair and disturbance associated with replacement construction, not the entire site area. ADEC assesses these based on disturbance area.</td>
</tr>
</tbody>
</table>

**Local - Refer to Municipality of Skagway**

- Coastal Management Program: Municipality of Skagway  
- Floodplain Permit/Review: Municipality of Skagway  
- Permit Application for Development in the Waterfront District or Industrial District: Municipality of Skagway
Design Concept

- Selected approach: Removal of large slope failure hazard
  - Established disposal sites upslope and downslope
  - Establish stable backslope
  - Excavate slide mass
  - Establish long term rockfall mitigation
Key Elements

- Defining the slide mass
- Impacts to submarine slopes
- Impacts to the dock and adjacent infrastructure
- Reducing risk of uncontrolled release of rock
Project Progression

- Establish 10% Design
- Initiate Permitting
- Engage Contractor (CMGC or Hybrid Model)
- Advance Design – One intermediate step before final
- Begin Construction (preferably staged)
Questions?