

October 1, 2019

Robert Salisbury  
Senior Planner  
Department of Planning and Development  
County of Santa Clara  
70 West Hedding Street  
San Jose, CA 95110

**Re: Permanente Quarry, Mine ID # 91-43-0004  
Response to August 29, 2019 Complete Letter for Application PLN19-0067**

Dear Robert,

The purpose of this letter is to submit the two items of supplemental information which the County of Santa Clara's Department of Planning and Development requested in its August 29, 2019 "Completeness" Letter for the Major Reclamation Plan Application PLN19-0067 ("Application").

First, the Department requested a Biological Resources Report ("report") that evaluates the reclamation plan amendment's impact upon trees and vegetation that no longer exist within the project area, assertedly to complete its CEQA review. CEQA, however, normally evaluates a project's impact upon existing conditions. Accordingly, Lehigh believes that the CEQA review should be limited to the effects of the proposed reclamation activities in the Application and not attempt to analyze biological resources that do not exist. Nonetheless, to aid the Department in framing the historic context, and for informational purposes, GEI has prepared the *Utility Road Bio Resources Report* included as Attachment A.

Second, the Department requested an updated Slope Stability Analysis. This has been prepared by Stantec along the cross section specified by the Department and the results are included as Attachment B.

Thank you,

Erika Guerra  
Director Environment and Land Resources  
Lehigh Hanson – West Region

Cc: Jacqueline Onciano, Planning Manager, AICP, County of Santa Clara  
Minira Sandhir, Principal Planner, AICP, County of Santa Clara  
Jim Baker, County Geologist, County of Santa Clara  
Elizabeth G. Pianca, Lead Deputy County Counsel, County of Santa Clara  
Kristina Loquist, Office of Supervisor Simitian, County of Santa Clara  
Paul Fry, Engineering and Geology Unit Manager, Division of Mine Reclamation  
Roger Lee, Acting Public Works Director, City of Cupertino

Attachment A Utility Road Bio Resources Memo

Attachment B Utility Road Slope Stability Analysis



Consulting  
Engineers and  
Scientists

September 16, 2019  
Project 1902867

VIA EMAIL: Talia.Flagan@LehighHanson.com

Ms. Talia Flagan  
Lehigh Southwest Cement Company  
24001 Stevens Creek Boulevard  
Cupertino, CA 95014

Dear Ms. Flagan:

**Re: Biological Resources Report for Permanente Quarry Utility Road Grading**

This letter is intended to satisfy the August 29, 2019 request from Santa Clara County for a biological resources report to support County review of Lehigh Southwest Cement Company's Major Reclamation Plan Amendment application for Lehigh Permanente Quarry (PLN19-0067). The County has specifically requested a report that identifies the amount of oak woodland and amount of habitat for endangered, threatened, or rare wildlife or plants that was removed to grade the utility road.

As indicated in the October 12, 2018 tree removal assessment memorandum prepared by GEI Consultants, Inc. (GEI), 1.14 acre of woodland was removed during grading of the utility road. Based on habitat mapping conducted for the 2012 Reclamation Plan Amendment, this habitat is classified as oak woodlands and forests. The remaining 0.23 acre of vegetation that was removed is classified as northern mixed chaparral.

Based on observations made during the field survey conducted by GEI to assess tree removal, the area where utility road grading occurred does not provide habitat for any endangered, threatened, or rare plants or animals, and did not provide suitable habitat for such species before grading occurred. Therefore, no habitat for endangered, threatened, or rare plants or animals was impacted by road grading. The only endangered, threatened, or rare plants or animals that are known to have been reported from locations within 5 miles of the utility road are California red-legged frog, California tiger salamander, and Central California coast steelhead (CDFW 2019). The reported 1893 occurrence of California tiger salamander is from the Permanente Property; however, the validity of this occurrence is questioned, because of its age and likely misidentification (WRA 2011) and the lack of any subsequent identification of California tiger salamander in the area during the past 125 years.

The utility road area is near the summit of the ridgeline between the Permanente Creek and Monte Bello Creek canyons. This area is a minimum of 0.25 mile upslope from Permanente Creek and 0.35 mile upslope from Monte Bello Creek and is separated from both creeks by active quarry facilities. Because of the location near the ridgeline, habitat conditions are relatively dry, and no aquatic habitat, including ephemeral drainages, is present. Therefore, habitat where utility road grading occurred is very unlikely to be traversed by California red-legged frog, and grading activities did not impact habitat for California red-legged frog or steelhead.

Potential additional work associated with the utility road is expected to be limited to minor grading within the area that has already been disturbed. Because this and adjacent undisturbed areas do not provide suitable habitat for California red-legged frog, no measures are required to avoid impacts to this species. However, measures consistent with those established in the 2012 Conditions of Approval should be implemented, if applicable, to avoid impacts to nesting birds, special-status bats, and San Francisco dusky-footed woodrat.

If you have any questions, please feel free to contact Cindy Davis at 916.631.4500 or [cdavis@geiconsultants.com](mailto:cdavis@geiconsultants.com).

Sincerely,

GEI CONSULTANTS, INC.



Cindy Davis  
Project Manager



Anne King  
Senior Biologist

#### References

California Department of Fish and Wildlife. 2019. CDFW Role in CEQA. Available at <https://www.wildlife.ca.gov/Conservation/CEQA/Role>. Accessed September 13, 2019.

WRA. 2011. *Biological Resources Assessment Lehigh Permanente Quarry*.

To:	Erika Guerra	From:	Paul Kos
	Lehigh Hanson, Inc.		Denver, CO
File:	SCC Utility Road	Date:	September 11, 2019

**Reference: Response to August 29, 2019 Information Request for Permanente Quarry Utility Road**

The County of Santa Clara (County) submitted a letter to Lehigh Southwest Cement Company (Lehigh) dated August 29, 2019, and the letter included the County’s determination that Lehigh’s Major Reclamation Plan Amendment application was complete. The letter requires additional information be submitted to the County to complete the California Environmental Quality Act (CEQA) review. This memorandum includes Lehigh’s response and information related to item #2: Slope Stability Analysis. The County requires an additional slope stability analysis of the Utility Road on the cut and fill slopes with the cross-section being located along the D-D’ line included in the letter.

Stantec Consulting Services, Inc. (Stantec) prepared cross-section D-D’ and evaluated the slope stability following the same methodology discussed in the previously submitted Grading Plan application and associated geotechnical analysis included as a memorandum from Stantec dated May 21, 2019 . The D-D’ location is included on attached Drawing 1, and the cross-section is included as Drawing 2. These figures present the original topography based on the 2007 pre-improvement survey, current topography based on the September 2018 survey, and the design topography.

Stantec modeled the slope stability factors of safety for static and pseudo-static conditions using Slope/W 2012 (Version 8.14) software. Slope/W performs a two-dimensional, limit-equilibrium analysis to calculate the factor of safety (FOS). The geology along D-D’ consists of the Santa Clara Formation, and the slope was evaluated using material properties for both coarse-grained and fine-grained material, as discussed in the May 21, 2019 Grading Plan application. The fill slope includes a compacted key at the toe of the slope; however, the entire fill slope material was assumed to be “residual soil” to be conservative. The slope stability results for D-D’ are summarized in Table 1 below, and the model reports are included as an attachment to this memorandum.

**Table 1 D-D’ Slope Stability Results**

Slope	Static FOS	Pseudo-Static FOS
Cut Slope (coarse-grained)	1.97	1.86
Cut Slope (fine-grained)	1.93	1.75
Fill Slope	1.82	1.30

Stantec recommends seeding disturbed areas to establish vegetation, which will reduce erosion and maintenance requirements. Seeding should occur before each rainy season. Stantec also recommends maintaining the road and repairing any areas where erosion may occur.

This memorandum has been prepared for Lehigh Hanson to provide a geotechnical evaluation of proposed grading activities to further improve to the existing utility road based on site observations and provided data. As mutual protection to Lehigh, the public, and Stantec, this memorandum and its figures are submitted for exclusive use by Lehigh Hanson. We specifically disclaim any responsibility for losses or damages incurred through the use of our work for a purpose other than as described in this memorandum. Our memorandum and recommendations should not be reproduced, except in whole, without our express written permission.

September 11, 2019

Erika Guerra

Page 2 of 2

Reference: Response to August 29, 2019 Information Request for Permanente Quarry Utility Road

**Stantec Consulting Services Inc.**

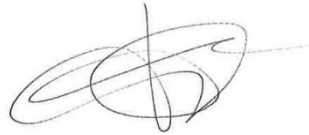


**Paul Kos, P.E.**

Senior Geological Engineer

(720) 889-6122

Paul.Kos@stantec.com

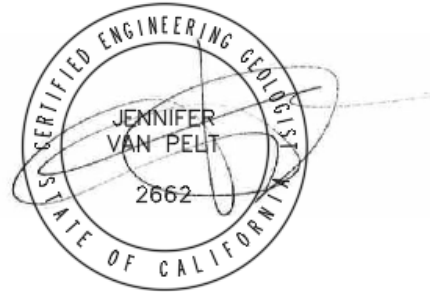


**Jennifer Van Pelt, CEG, PG**

Engineering Geologist

(925) 627-4565

Jennifer.VanPelt@stantec.com

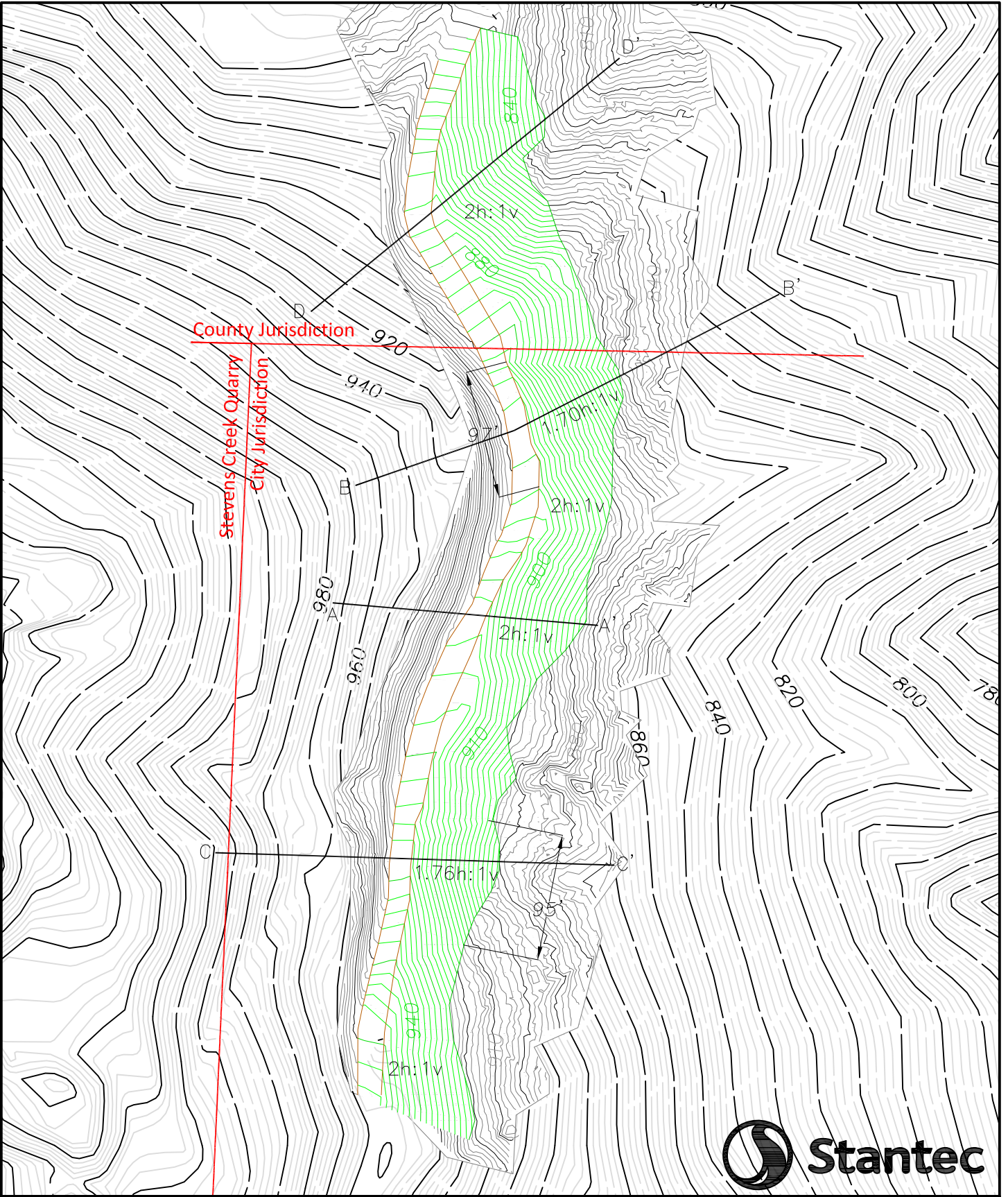


Attachments:

- Drawing 1 Utility Road Grading Plan
- Drawing 2 Utility Road Cross-Section D-D'
- Slope Stability Analysis Results

\\us0321-ppfss01\workgroup\2274\active\233001288\lehigh\_s\_437\437-3\_223001328\_permanentesaw\disc\geotech\scq\road\response to scc\_sept2019\scq road grading plan\_27aug2019

2019.09.11 2:02:34 PM



**Legend**

- 2007 Topography
- 2018 Topography
- Proposed Topography
- Proposed Utility Road
- Property Boundary
- Extent of Fill
- Cross-Section



Client/Project

Lehigh Southwest Cement Company  
Permanente Quarry

Drawing

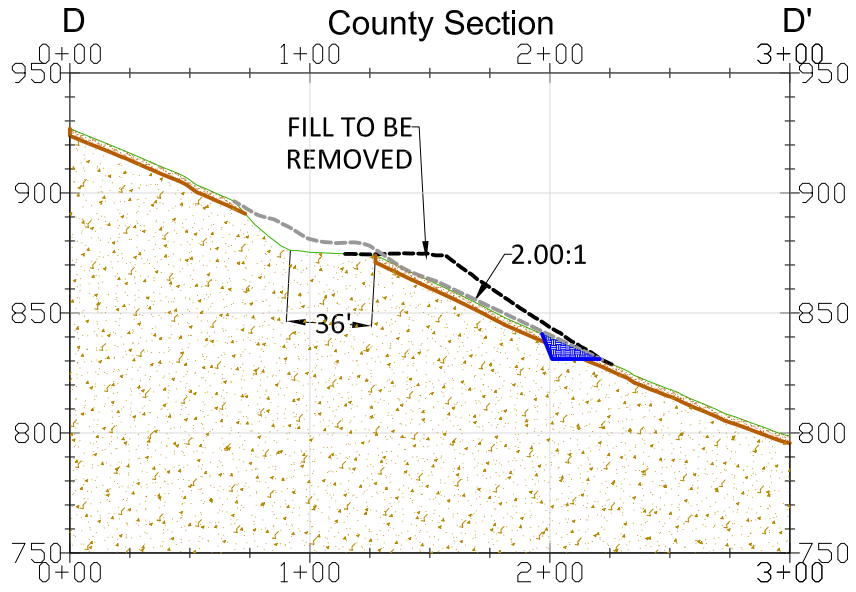
1

Title






Utility Road Grading Plan

\\us0321-ppfss01\workgroup\2274\active\233001288\lehigh\_s\_437\437-3\_223001328\_permanentesaw\disc\geotech\scq\road\response to scq\_sept2019\scq\_road\_grading\_plan\_27aug2019

2019.09.11 2:03:41 PM



**Legend**

-  PROPOSED SURFACE
-  EXISTING SURFACE
-  ORIGINAL SURFACE
-  COMPACTED KEY
-  SOIL LAYER

Client/Project

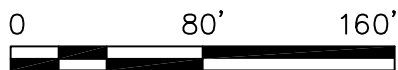
Lehigh Southwest Cement Company  
Permanente Quarry

Drawing

2

Title

Utility Road Cross-Section D-D'



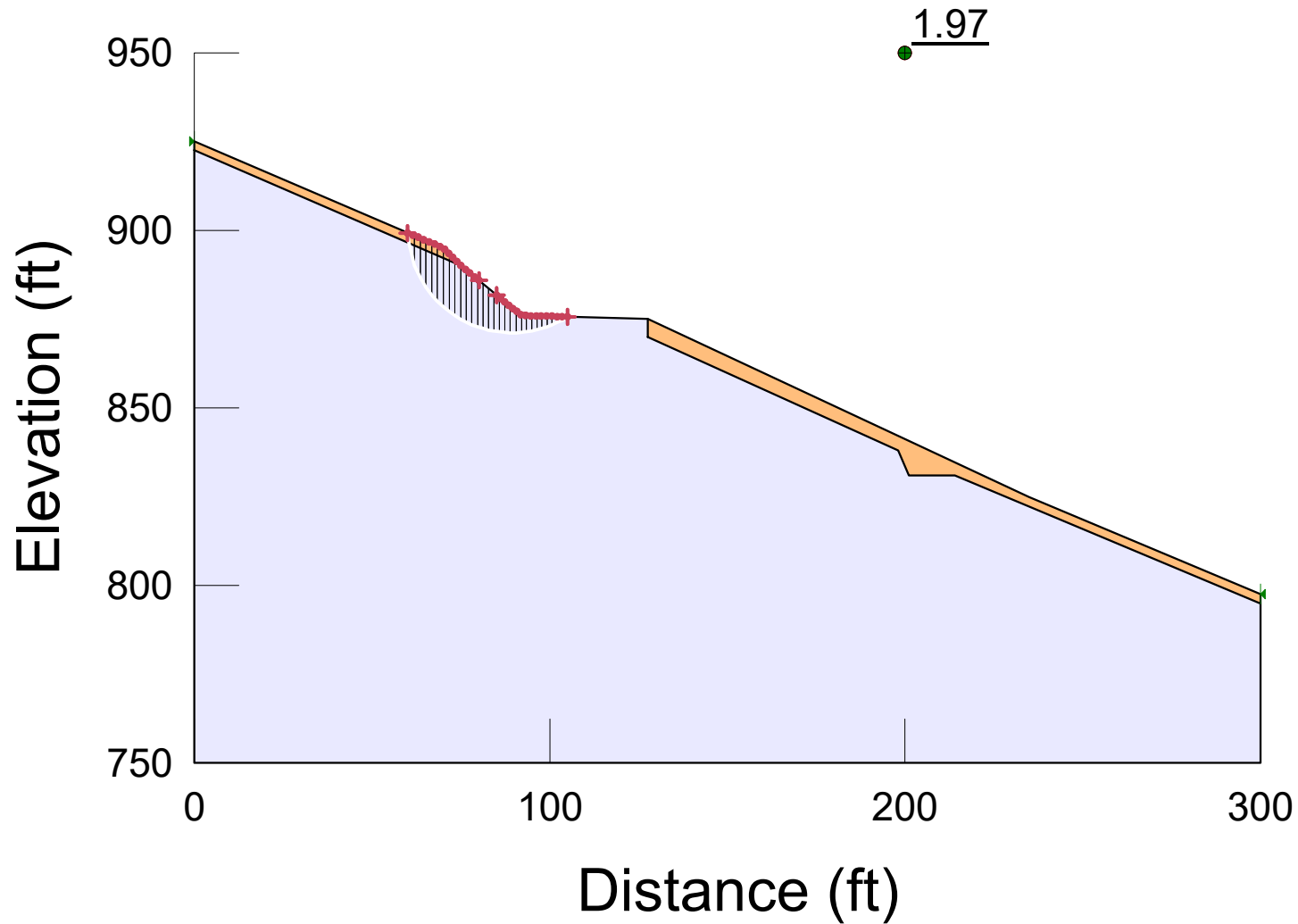


Title: Stevens Creek Road (Section D)  
Date: 09/11/2019  
File Name: 233001328 SCQ Road Section D (20190911).gsz

Parent: 1. Cut Slope (Local)  
Name: 1c. Static Analysis (Sensitivity)

Factor of Safety: 1.97

Color	Name	Model	Unit Weight (pcf)	Cohesion' (psf)	Phi' (°)
Orange	Residual Soil	Mohr-Coulomb	120	200	30
Light Blue	Santa Clara (Sensitivity)	Mohr-Coulomb	165	820	24

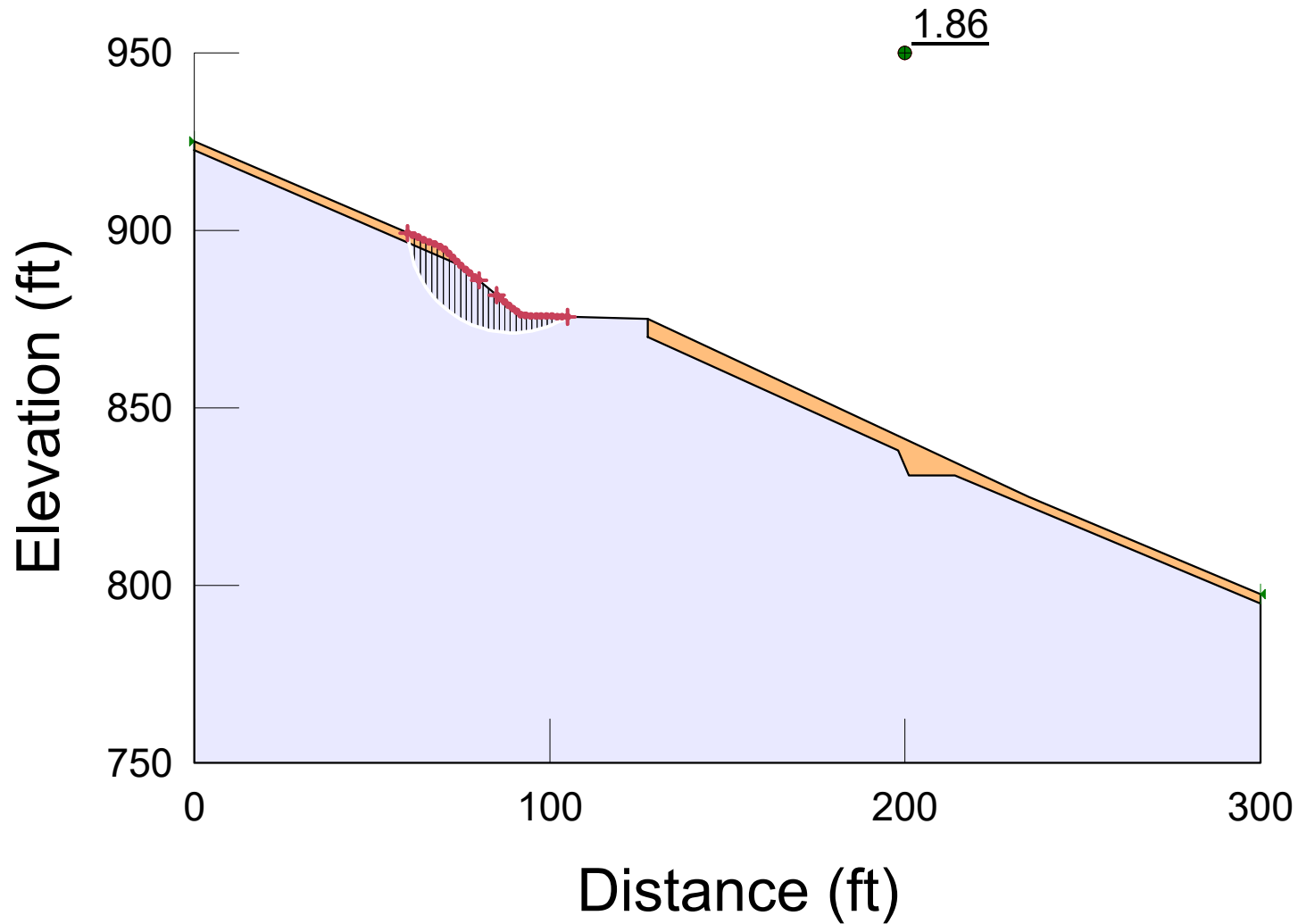


Title: Stevens Creek Road (Section D)  
Date: 09/11/2019  
File Name: 233001328 SCQ Road Section D (20190911).gsz

Parent: 1. Cut Slope (Local)  
Name: 1d. Pseudostatic Analysis (Sensitivity)

Factor of Safety: 1.86

Color	Name	Model	Unit Weight (pcf)	Cohesion' (psf)	Phi' (°)
Orange	Residual Soil	Mohr-Coulomb	120	200	30
Light Blue	Santa Clara (Sensitivity)	Mohr-Coulomb	165	820	24

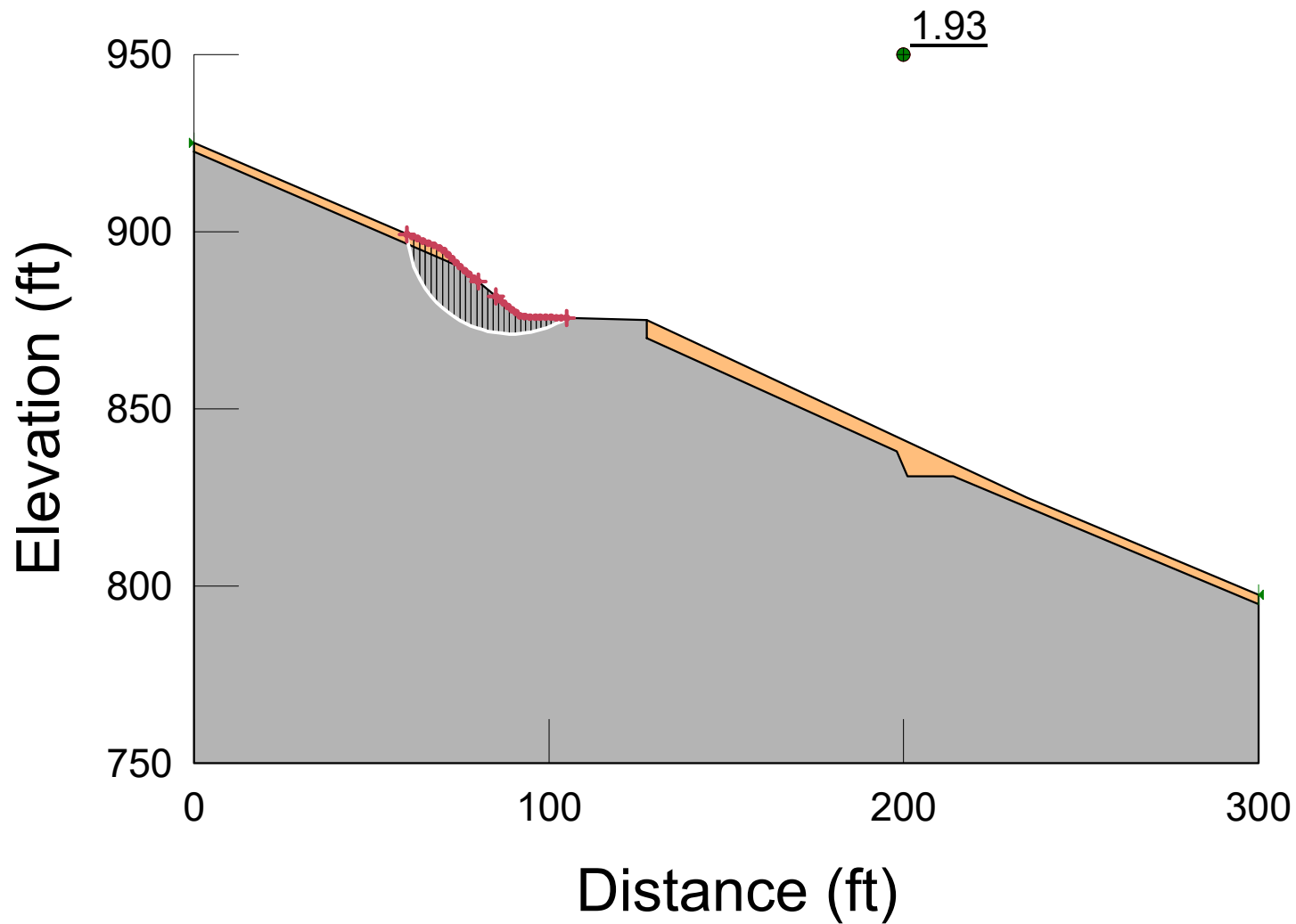


Title: Stevens Creek Road (Section D)  
Date: 09/11/2019  
File Name: 233001328 SCQ Road Section D (20190911).gsz

Parent: 1. Cut Slope (Local)  
Name: 1a. Static Analysis

Factor of Safety: 1.93

Color	Name	Model	Unit Weight (pcf)	Cohesion' (psf)	Phi' (°)
Orange	Residual Soil	Mohr-Coulomb	120	200	30
Grey	Santa Clara	Mohr-Coulomb	165	550	33

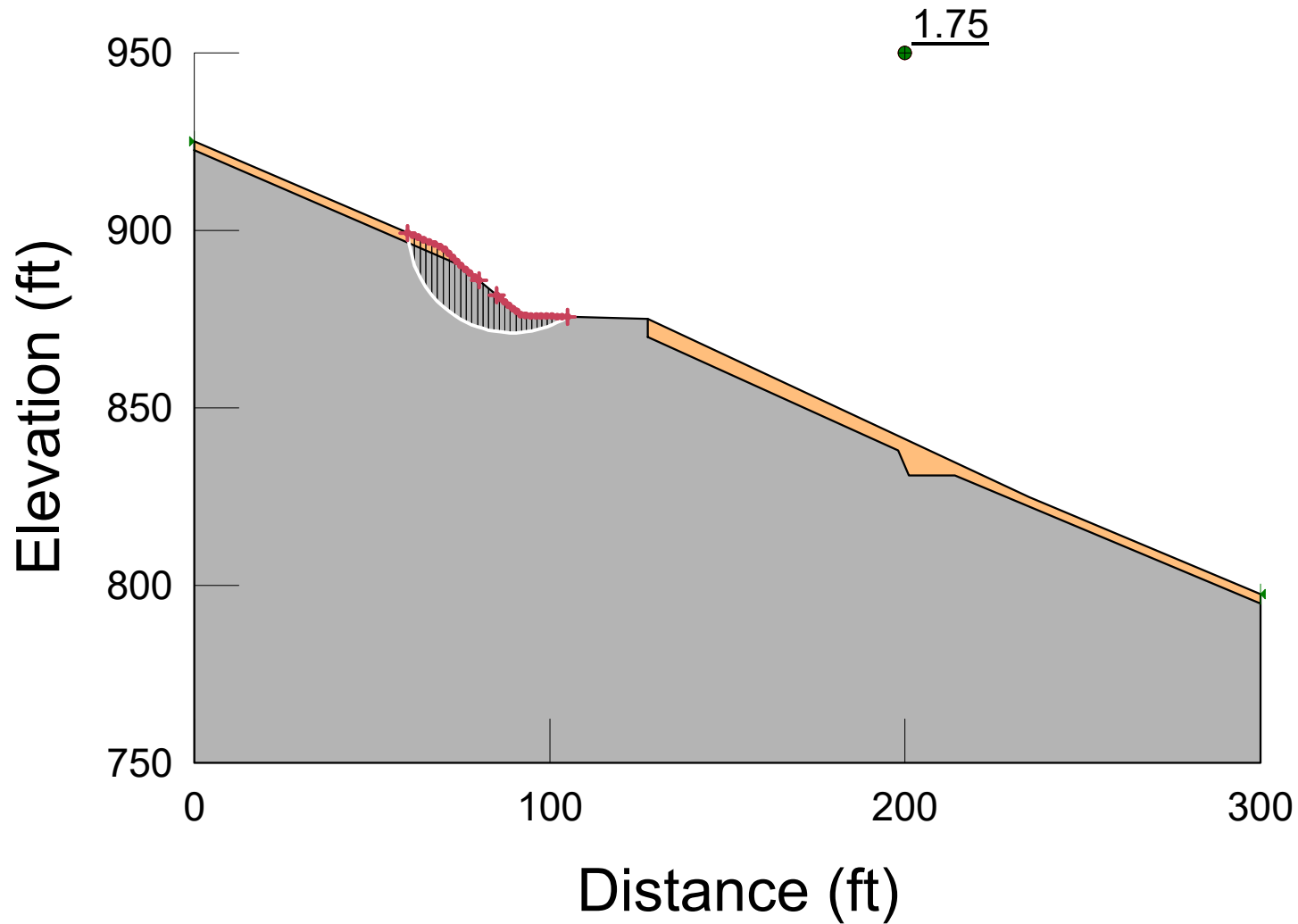


Title: Stevens Creek Road (Section D)  
Date: 09/11/2019  
File Name: 233001328 SCQ Road Section D (20190911).gsz

Parent: 1. Cut Slope (Local)  
Name: 1b. Pseudostatic Analysis

Factor of Safety: 1.75

Color	Name	Model	Unit Weight (pcf)	Cohesion' (psf)	Phi' (°)
Orange	Residual Soil	Mohr-Coulomb	120	200	30
Grey	Santa Clara	Mohr-Coulomb	165	550	33

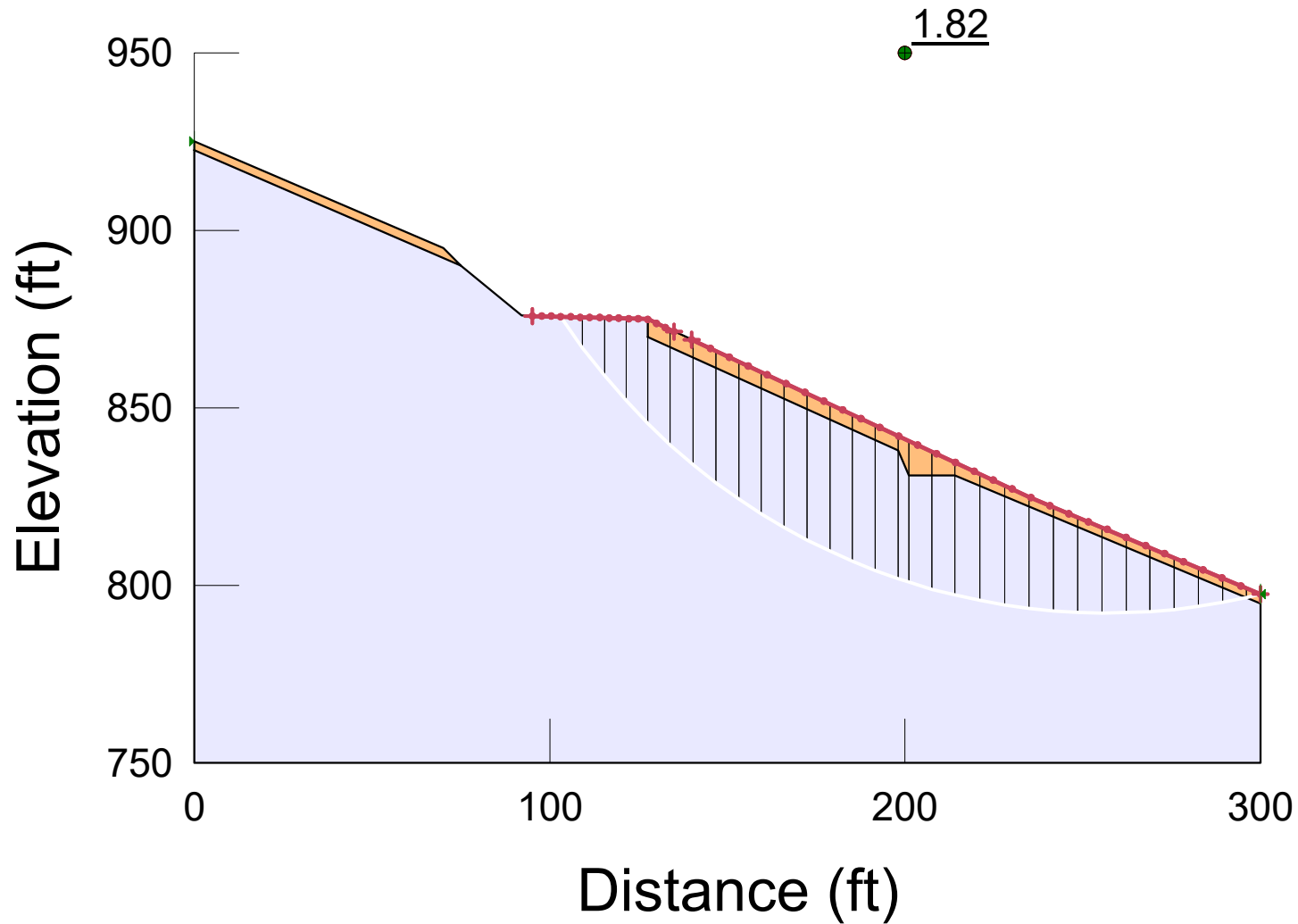


Title: Stevens Creek Road (Section D)  
Date: 09/11/2019  
File Name: 233001328 SCQ Road Section D (20190911).gsz

Parent: 4. Fill Slope (Sensitivity)  
Name: 4a. Static Analysis

Factor of Safety: 1.82

Color	Name	Model	Unit Weight (pcf)	Cohesion' (psf)	Phi' (°)
Orange	Residual Soil	Mohr-Coulomb	120	200	30
Light Blue	Santa Clara (Sensitivity)	Mohr-Coulomb	165	820	24



Title: Stevens Creek Road (Section D)  
Date: 09/11/2019  
File Name: 233001328 SCQ Road Section D (20190911).gsz

Parent: 4. Fill Slope (Sensitivity)  
Name: 4b. Pseudostatic Analysis

Factor of Safety: 1.30

Color	Name	Model	Unit Weight (pcf)	Cohesion' (psf)	Phi' (°)
Orange	Residual Soil	Mohr-Coulomb	120	200	30
Light Blue	Santa Clara (Sensitivity)	Mohr-Coulomb	165	820	24

