



June 1, 2015

Chuck Wooten
Jackson County Manager
401 Grindstaff Cove Road
Sylva, NC 28779

Dear Mr. Wooten,

At your request, we have prepared this letter in order to provide more information about landslide mapping in Jackson County. Below you will find information on estimated project costs and an estimated project timeline. Please contact us with any further questions you may have.

We appreciate the opportunity to provide you with this information.

Sincerely,

Appalachian Landslide Consultants, PLLC

Jennifer Bauer, L.G.
Principal Geologist/Co-owner

Stephen Fuemmeler, L.G.
Principal Geologist/Co-owner

Jackson County Landslide Mapping Project

Project Deliverables

- Complete the Landslide Inventory for the County in GIS
 - Pre-field GIS work with air photos and LiDAR Digital Elevation Models
 - Field verification of landslide locations
 - Data QA/QC
- Landslide Susceptibility Maps
 - Where Natural Debris Flows Might Start – Map layer showing areas natural landslides might start during heavy rain events
 - Where Natural Debris Flows Might Go – Map layer showing areas natural landslides might affect during heavy rain events
 - Slope Construction Caution Areas – Map layer showing slopes where landslides on modified slopes tend to occur
- User's Guide
- Educational brochure for the public
- Participation in Stakeholders meetings
- Public education and outreach meetings
 - Includes map use workshop for County personnel users and workshop for real estate and construction industry groups or other interested organizations
- Work with project partners on online map distribution

Estimated Costs

We estimate the total cost for this project as \$143,000. This represents a reduction of \$15,000 from the \$158,000 estimate we gave the Planning Board in July, 2014. This reduction is due to improved efficiencies in the modelling process. Project costs could be spread over two fiscal years.

Estimated project timeline

Total project completion will take a year and a half. We anticipate allotting one year to complete the inventory and 6 months to complete susceptibility modelling and education and outreach efforts. This is dependent upon stakeholder scheduling and review of products, weather, and funding timelines.

For example, if funding were in place by July 1, 2015, the inventory could be completed in FY2015-2016 and susceptibility modelling and education could be completed in FY2016-2017.