

# Research Project Status Report

April 1, 2007 – June 30, 2007

<i>Project Title</i> <b>Subsurface Drainage for Landslide and Slope Stabilization</b>		<i>Agmt./Task No.</i>	<i>Item No.</i>	<i>Agency Bgt. No.</i>
<i>Research Agency</i> <b>WSU/UBC</b>		<i>Start Date</i> <b>3/2007</b>	<i>Estimated Completion</i> <b>12/2010</b>	<i>Revised Completion</i>
<i>Principal Investigator(s)</i> <b>Balasingham Muhunthan (Washington State University) and Roger Beckie (University of British Columbia)</b>		<i>Technical Contact</i> <b>Tom Badger 360.709.5461</b>		
<i>WSDOT Program Manager</i> <b>Kim Willoughby 360.705.7978</b>		<i>FHWA or Other Technical Contact</i> <b>Mike Adams</b>		
<i>Funding Source</i> <b>CA, MD, MS, MT, NH, OH, PA, TX, WA, WY</b>		<i>Schedule Status</i> <input checked="" type="checkbox"/> On schedule <input type="checkbox"/> Ahead of schedule <input type="checkbox"/> On revised schedule <input type="checkbox"/> Behind schedule		
<i>Research Area</i> <input type="checkbox"/> Bridges & Structures <input type="checkbox"/> Environment <input checked="" type="checkbox"/> Highway Design & Safety <input type="checkbox"/> Mobility & Intermodal Planning <input checked="" type="checkbox"/> Operations & Materials <input type="checkbox"/> Traffic & Intelligent Transportation Systems Evaluation				
<i>Original Estimated Cost</i> <b>\$ 300,000</b>	<i>Revised Cost</i>	<i>% Funds Expended</i> <b>2%</b>	<i>% Work Completed</i> <b>1%</b>	
<i>Objective</i> <b>(1) Provide best practices and guidance for subsurface drainage applications for slope stabilization, including subsurface investigation and testing, groundwater-flow characterization, analysis, drain configurations and design, installation methods, monitoring, and maintenance. (2) Evaluate new applications of existing materials and technologies, such as trenchless technologies (horizontal directional drilling, micro tunneling, guided boring, etc.) and other innovative technologies and materials, for stabilizing slopes using subsurface drainage.</b>				

## Project Progress:

WSDOT has contracted with Washington State University and this research will begin in August.

## New Period Proposed Activity:

Begin research.