

Appendix 1: Rock Candy Mountain Landslide and Debris Flow - January 2009
Upper Kennedy Creek Basin: Olympia, Washington



January 2009 Landslide Head Scarp in mature forest. Approximate El.1600'



January 2009 - Upper portion of the slide (1400 - 1500'). Blocks and debris piles

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January 2009 - Middle Portion of the slide (1100 -1300'). Increasing velocity splinters trees. Begins the debris flow stage near this elevation.



January 2009 - Middle Portion of the slide (900-1200') Looking upslope the path of the slide debris is apparent and the transition to debris flow/torrent has occurred. The forest has been leveled in the path of the debris

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January 2009 - Lower Portion of slide. This stage (~ El. 900') the movement is rapidly flowing debris. Two Lobes diverge from the parent channel. East Lobe (right of tree island) jumps a small hill and slams into forest. Velocity is very high at this point. Debris travels over 1500 feet into forest destroying everything in its path. West Lobe remains in the parent channel.

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January 2009 - Divergence of the two lobes of the debris flow. Channel on the left is the channel of origin.



January 2009 - East Lobe of the debris flow. Rapidly moving debris plowed through the existing forest before coming to rest 1500 feet from the location this photo was taken.

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January 2009 - Kennedy Creek at the Ranch House BBQ restaurant. The Thurston County Kennedy Creek Road is the roadway in the forefront. State Highway 8 is the roadway in the far background. Both roadways were closed for two days for debris removal and water over the roadway.