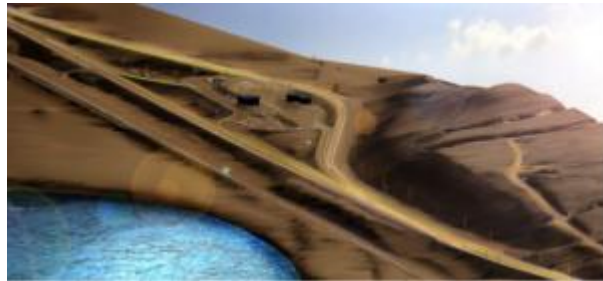


## LIDAR: a promising new survey technology

LIDAR uses laser and GPS technologies between control points applied from an aircraft, usually a helicopter. It can effectively measure distances and elevations of terrain. We have made very preliminary enquiries with Terra Remote Sensing in Sidney, BC and determined that LIDAR technology is likely an appropriate survey technology for determining a suitable route for our proposed roadway. Consultations with surveyors confirm that it would be extremely helpful, providing basic information that would make rough cost estimates more accurate. The cost of LIDAR service is very approximately estimated at \$60,000 to \$80,000. After set up, the process would take about 4 days. With LIDAR we can clearly identify the necessary groundwork to widen the existing roads; determine the routing and cost estimates for the sections of new road; and quantify required bridges, culverts, etc.

**Right:** Surface model made using high Density LIDAR. Click on image to enlarge.



-- Third Crossing Society, 2014