## Neighbor's Slide Graben Left lateral margin (locally Left lateral margin as of 11/18/14 undercut) of neighboring Left lateral margin / as of 11/18/14 JOB # 14-003 landslide (gully head not shown); original survey 3/20/14 Scarp 3N MAP 3 Unit 3 Unit 2 Scarp 4N **Neighboring Property** (Maps 1 and 2 not issued in this report) Chain-link Fence Scarp 2N **Monitoring Points resurveyed 11/18/14** ⊗<sub>TM10</sub> Unit 5 Scarp 1N STA 4 New ground crack observed 11/18/14 (incipient Scarp 5N) ⊗ \ TM12 New ground crack observed 1/7/15 TM7 Extensions of scarps and ground cracks in this area not shown MP<sub>R</sub>26 0,142H -0.014 Approximate MP<sub>R</sub>25 0.14H MP22 0.085H -0.024 Scarp 1N SCALE (ft.) VERIFY SCALE: If this scale does not measure 1 inch, then it has been altered through reproduction. MP4 0.052H MP3 **KEY TO SYMBOLS** Monitoring Point (grid-pin number indicated; horizontal and vertical displacements indicated [in feet]; MP<sub>R</sub> 0.025H -0.05 indicates point shot with survey rod, not microprism; MP5 0.059H movement vector and error circle magnified 10x; see Large well-rounded Qtm boulders in BGC survey-control point (number indicated) STA 1 relative elevation (R.E.) = 1000.0 ft. creek not shown Slope inclinometer (number indicated) Scarp 1S Tiltmeter (number indicated) STA 3/MP16 0.081H -0.013 MP6<sup>®</sup> 0.065H TM5 MP 23 0.131H Seep on initial survey date Scarp 2S MP<sub>R</sub>29 0.232H Large conifer (trunk diameter indicated), 0.072H not all shown *P*+0.013 Slide scarp, dashed where approximate MP<sub>R</sub>30 0.214H Ground crack 0.062H -0.014 (at ocean) (Lateral offsets of a few feet not shown) MP17 0.127H -0.028 Profile line (see Geologic Cross-Sections) MP<sub>R</sub>32 7 0.146H +0.026 MP9 / 0.10H -0.018 Rhododendron MP13 0.09H -0.012 `₀MP19 Not all landscaping areas shown MP12 0.097H -0.015 Left Lateral Scarp NOTE: Determination of Monitoring Point (Grid-Pin and Tiltmeter) Movement (Right Lateral Scarp Not Found) We determine the amount of horizontal and vertical movements of Monitoring Points Chain-link Fence (grid-pins and tiltmeters) by resurveying the points. If repeat-survey coordinates vary by more than +/- 2 standard deviations (i.e., beyond the 95% confidence interval) from the established baseline values, we conclude that movement has occurred. Established BGC repeat-survey accuracy for micro-prism shots: +/- 0.026 ft horz., +/- 0.01 ft vert. and for rod shots: +/- 0.032 ft horz., +/- 0.01 ft vert. SCALE: 1 inch = 10 feet

## CONTOUR INTERVAL = 1.0 foot

PRODUCTION DATE: 8 January 2015 ORIGINAL SURVEY BY: REB and DJC 3/13/14 - 4/09/14 DRAFTED BY: DJC on 12/2/14 - 12/29/14

ELEVATION DATUM IS ARBITRARY.

2. THIS MAP WAS PRODUCED BY GEOLOGISTS WORKING UNDER THE DIRECTION OF

A CERTIFIED ENGINEERING GEOLOGIST. 3. MAP NORTH FROM MAGNETIC NORTH WITH A DECLINATION OF ~14.9 DEGREES EAST.

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## Mrs. Mary O'Reilly Monitoring Point Map

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