

4.0 Mitigation Monitoring and Reporting Program

Impact	Mitigation Measure/Improvement Measure	Monitoring/Reporting Action(s)	Mitigation Timing	Monitoring Schedule
<p><b>GEOLOGY AND SOILS (continued)</b></p> <p><b>Impact GEO-2:</b> The proposed project is located on a geologic unit that may be unstable or could become unstable as a result of the project.</p>	<p><b>Mitigation Measure GEO-2a:</b> Materials used to construct the buttress fill should have effective strength parameters equal to or better than the parameters used in the Treadwell &amp; Rollo 2009 study. (Lots 7 and 8)</p> <p><b>Mitigation Measure GEO-2b:</b> The following mitigation measures shall be implemented to ensure the stability of proposed structures that are located on deep fill soils:</p> <ul style="list-style-type: none"> <li>• A site-specific, design-level geotechnical investigation shall be completed during the design phase of the proposed project, and prior to approval of new building construction within the site for specific foundation design, slope configuration, and drainage design. (All lots)</li> <li>• The geotechnical investigation shall provide recommendations to prevent water from ponding in pavement areas and adjacent to the foundation of the proposed residences, and to prevent collected water from being discharged freely onto the ground surface adjacent to the residences, site retaining walls, or artificial slopes. The project geotechnical engineer shall identify on site areas downslope of the homes where the collected water may be discharged utilizing properly designed energy dissipaters. (All lots)</li> <li>• Fills used at the project site shall be properly placed with keyways and subsurface drainage, and adequately compacted following the recommendations of the final geotechnical report and Geotechnical Engineer, in order to significantly reduce fill settlement. (All lots)</li> <li>• Underground utilities shall be designed and constructed using flexible connection points to allow for differential settlement. (All lots)</li> </ul>	<p>County of San Mateo Planning and Building Department</p> <p>Shall oversee implementation of geotechnical investigation recommendations</p>	<p>Prior to issuance of grading permit</p>	<p>Document and confirm during building permit review</p> <p>Confirm and document during grading and building permit review</p>