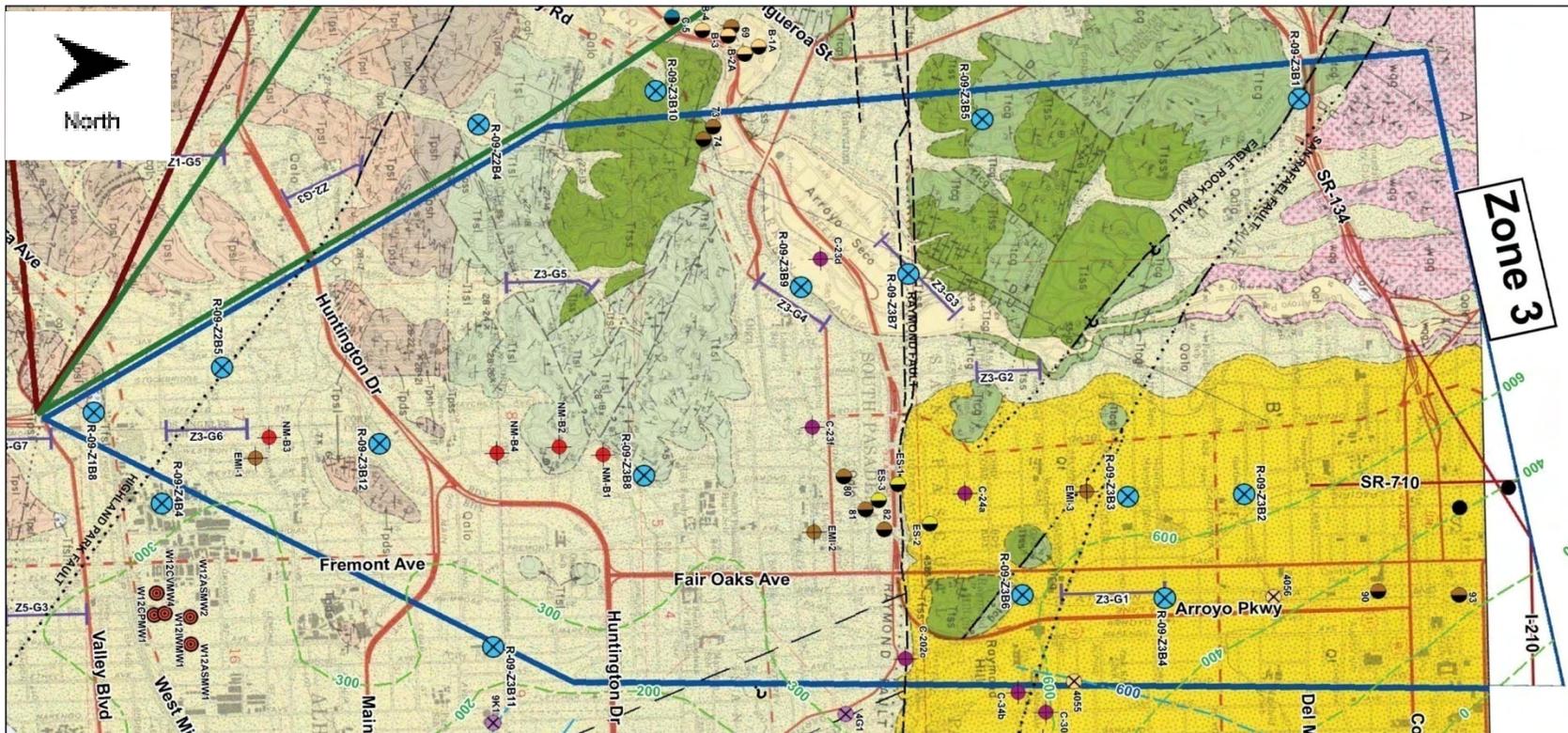
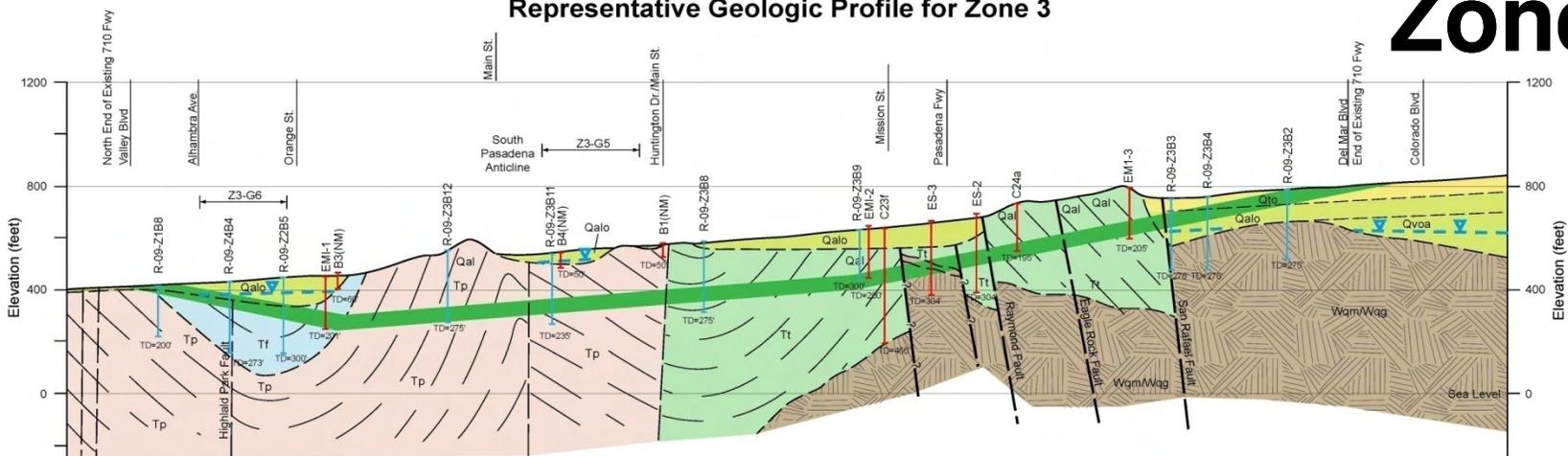


### Geotechnical Map



### Representative Geologic Profile for Zone 3

# Zone 3

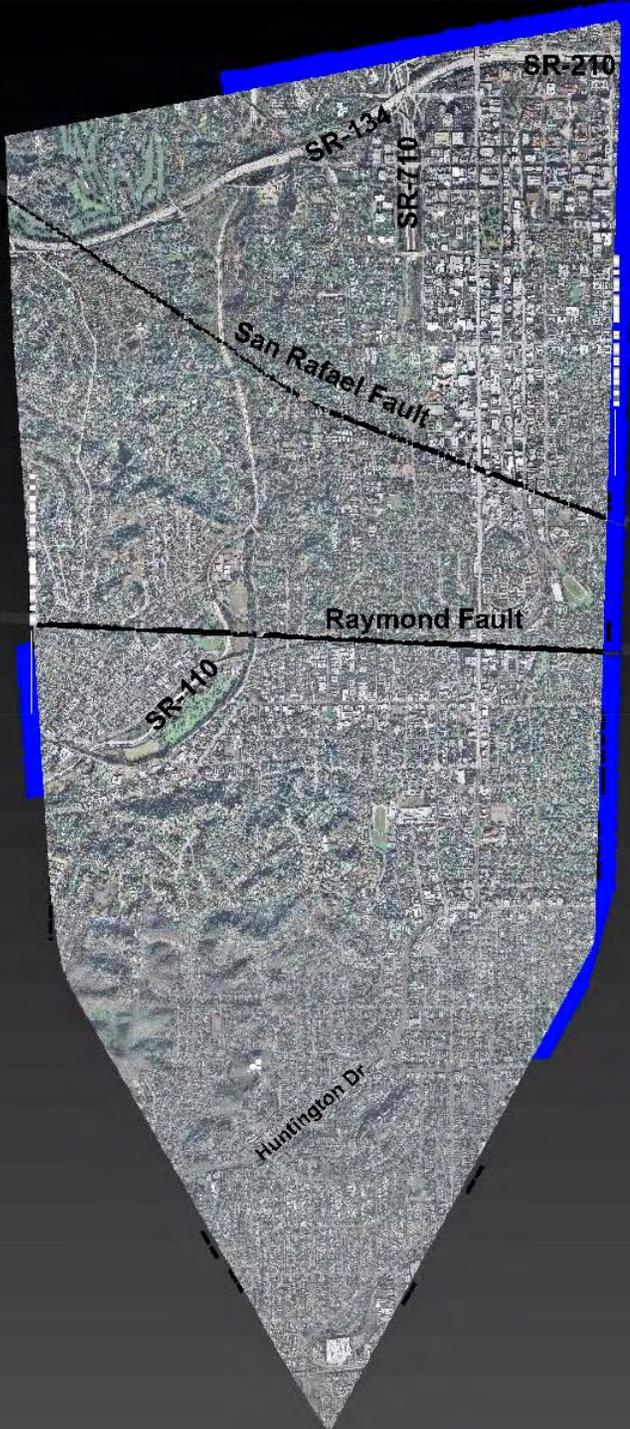


# Zone 3 (to I-210)

- **Variable geologic conditions**
  - **Alluvium**
  - **Sedimentary Rock (Fernando, Puente, Topanga Formations)**
  - **Igneous and Metamorphic Rock**
- **Northern portion of the zone in alluvium**
- **North of Eagle Rock Fault cobbles and boulders may be encountered**
- **Variable geologic structures (faults, folds, etc)**
- **Raymond Fault considered active and a groundwater barrier**
- **Several inactive faults**
- **Variable groundwater depths**



- Alluvial Soil (Qal0)
- Fernando Formation (Tf)
- Puente Formation (Tp)
- Topanga Formation (Tt)
- Wilson Quartz Diorite (Wqm)
- Tunnel

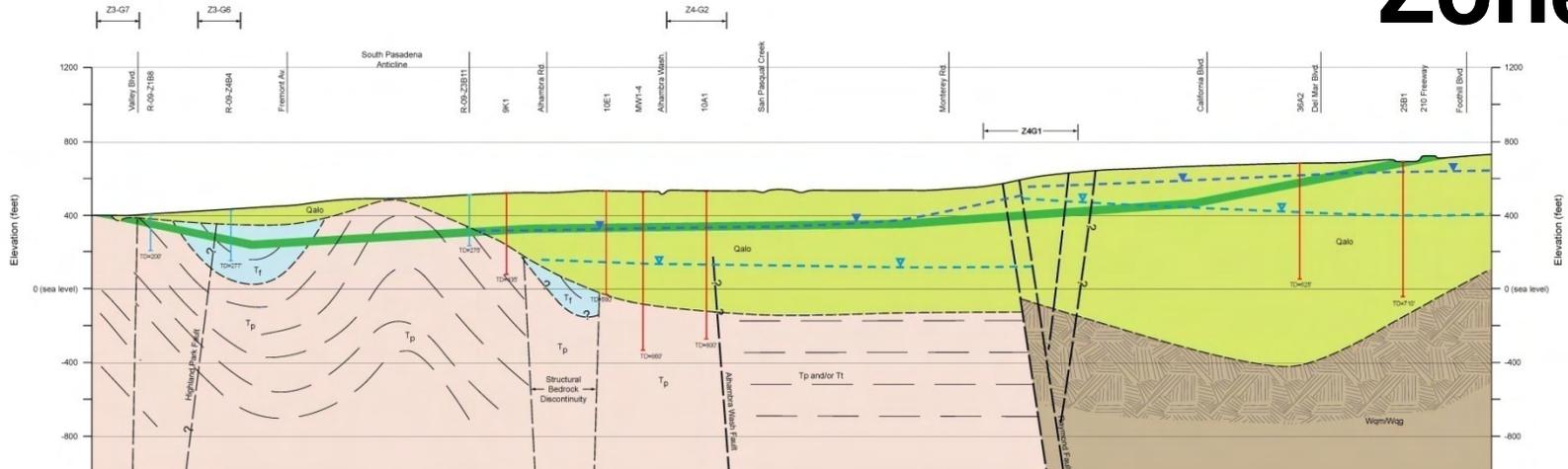


Geotechnical Map



Representative Geologic Profile for Zone 4

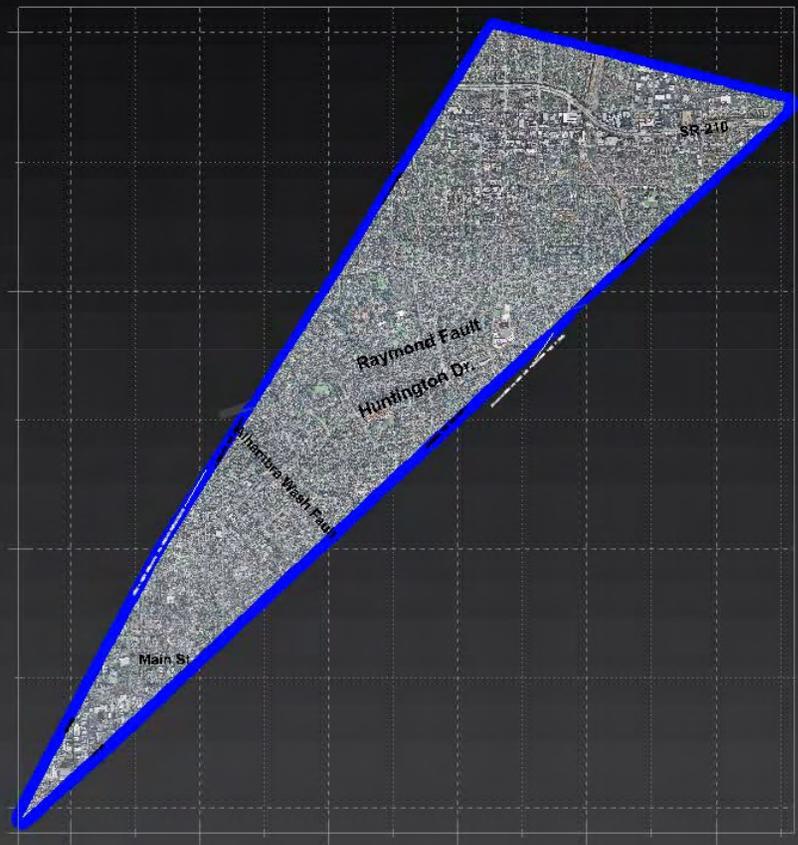
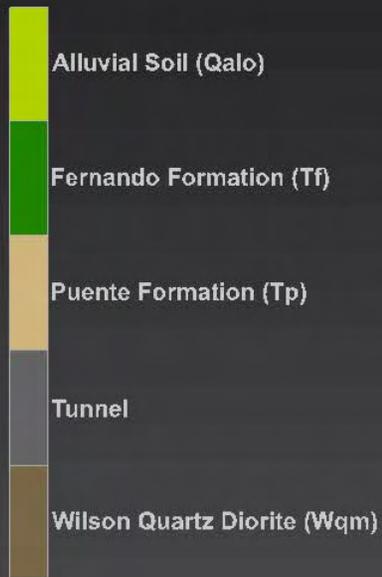
# Zone 4



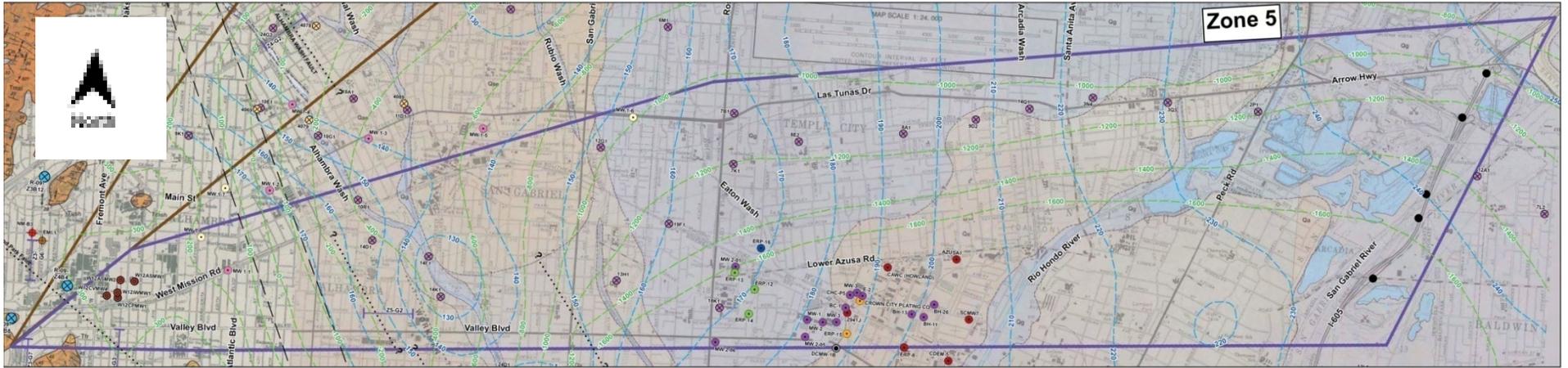
Metro

# Zone 4 (to I-210)

- **Mostly alluvium with some Fernando and Puente Formation rock near south end**
  - **Alluvium may contain cobbles and boulders**
  - **Fernando Formation: mudstone**
  - **Puente Formation: sandstone, siltstone, and mudstone**
- **Raymond and Alhambra Wash Faults are considered active and act as a groundwater barrier**
- **Potential for high groundwater inflows in alluvium**
- **Potential for caving soils**
- **Groundwater levels not uniform across the zone**
- **Superfund site located in the central portion**

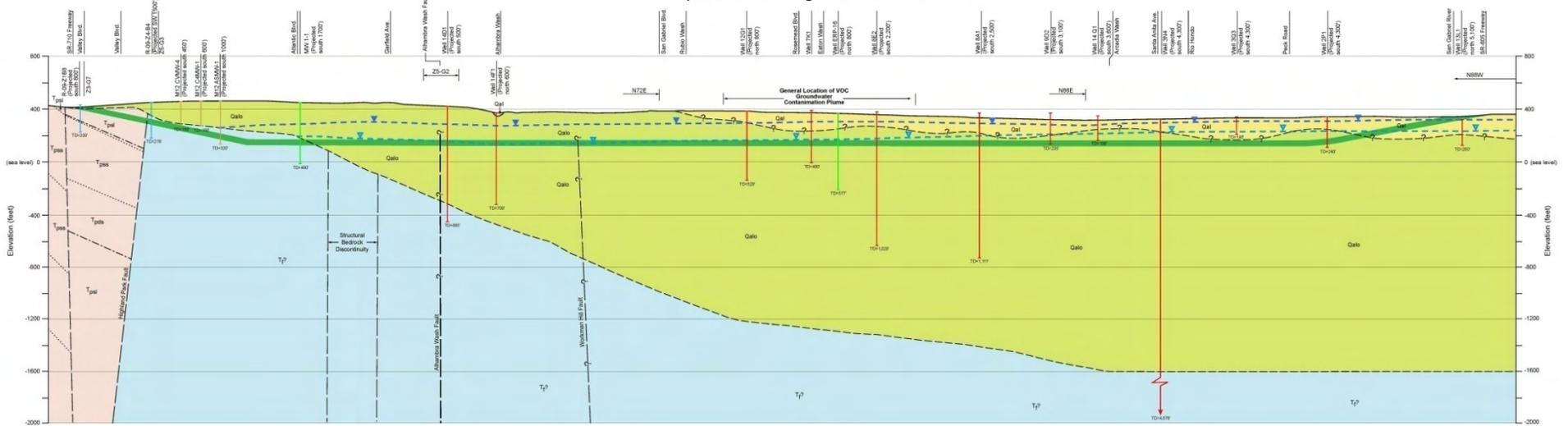


Geotechnical Map



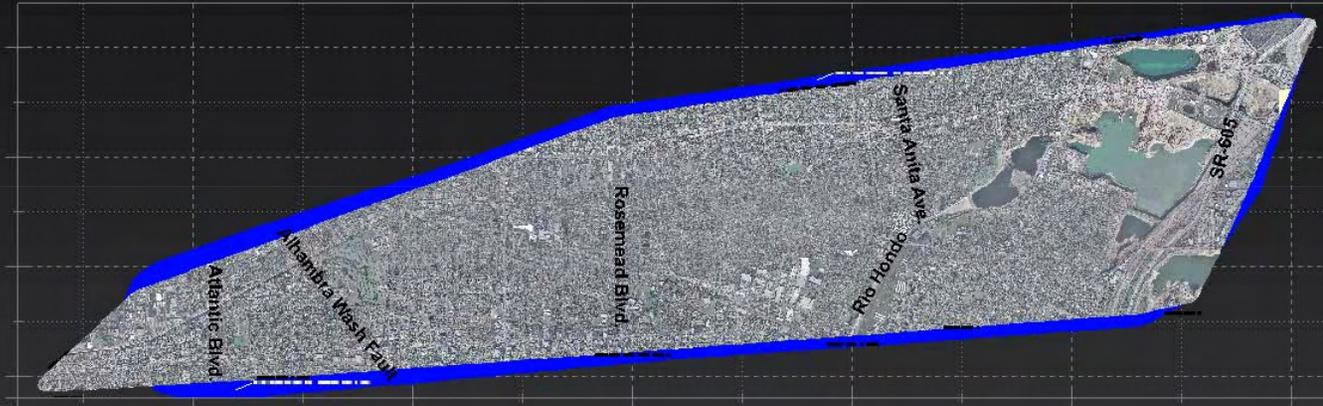
# Zone 5

Representative Geologic Profile for Zone 5



# Zone 5 (to I-605)

- **Mostly alluvium with some Fernando and Puente Formation rock near south end**
  - **Alluvium may contain cobbles and boulders**
  - **Fernando Formation: mudstone**
  - **Puente Formation: sandstone, siltstone, and mudstone**
- **Alhambra Wash Fault is considered active**
- **Potential for high groundwater inflows in alluvium**
- **Groundwater levels not uniform across the zone**
- **Superfund site located in the south central portion**
- **Perennial Rio Hondo and San Gabriel Rivers and recharge lakes at eastern portion**





# Summary of Findings

Zone	Predominant Geologic Formation(s)	Number of Geologic Formations	Percent of Zone in each Formation	Number of Reported / Mapped Faults	Number of Active Faults Crossing Zone	Potential for Gassy Conditions <sup>a</sup>	Percent of Zone Under Superfund Site
1	Puente Alluvium	2	80 to 90 10 to 20	5	0	H	5 to 10
2	Puente Topanga Fernando Alluvium	4	70 to 80 10 to 15 5 to 10 5 to 10	7	1 (NW Portal)	H	0
3	Topanga Alluvium Puente Fernando Diorite	5	30 to 40 10 to 20 20 to 30 5 to 10 10 to 20	7	3 <sup>b</sup>	M	0
4	Alluvium Fernando Puente	3	70 to 80 10 to 15 10 to 15	5	2	L	5 to 15
5	Alluvium Fernando Puente	3	75 to 85 10 to 15 5 to 10	3	1	L	5 to 30

<sup>a</sup>H-High, M-Moderate, L-Low

<sup>b</sup>Includes potentially active faults