

**LEGEND**

**IMPACTED PRODUCTION WELL**

- ALLUVIUM
- SAUGUS

**NON-IMPACTED PRODUCTION WELL**

- ALLUVIUM
- SAUGUS

**MONITORING WELLS**

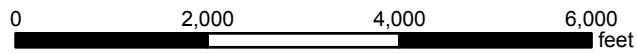
- ▲ ALLUVIUM
- ▲ SAUGUS

**GROUNDWATER FLOWPATHS**

- BASE CASE RUN (Kh:Kv = 50:1)
- SENSITIVITY RUN (Kh:Kv = 200:1)

**NOTES:**

1. VALUES PRESENTED UNDER WELL SYMBOLS REPRESENT PERCHLORATE CONCENTRATION IN GROUNDWATER (µg/L).
2. INDICATED PUMPING RATES REPRESENT INSTANTANEOUS RATES WHEN THE WELL OPERATES.
3. ND = PERCHLORATE NOT DETECTED IN GROUNDWATER SAMPLE.
4. µg/L = MICROGRAMS PER LITER; gpm = GALLONS PER MINUTE
5. PARTICLES ARE INITIATED IN LAYER 2 AT NC-11, AND LAYER 3 AT SCWC-SAUGUS1 AND SCWC-SAUGUS2.
6. FLOWPATHS ARE DELINEATED USING AN EFFECTIVE POROSITY OF 0.10 IN THE ALLUVIAL AQUIFER AND THE SAUGUS FORMATION.
7. Kh:Kv = RATIO OF HORIZONTAL HYDRAULIC CONDUCTIVITY TO VERTICAL HYDRAULIC CONDUCTIVITY.



**FIGURE 2-33**  
**SENSITIVITY OF 20-YEAR CAPTURE ZONES FOR WELLS SCWC-SAUGUS1, SCWC-SAUGUS2, AND NCWD-11 TO LOWER SIMULATED HYDRAULIC CONNECTION BETWEEN THE ALLUVIAL AQUIFER AND THE SAUGUS FORMATION**  
 ANALYSIS OF PERCHLORATE CONTAMIN IN GROUNDWATER NEAR THE WHITTAKER-BERMITE PROPERTY SANTA CLARITA, CALIFORNIA