

LKFC-PA Conductivity

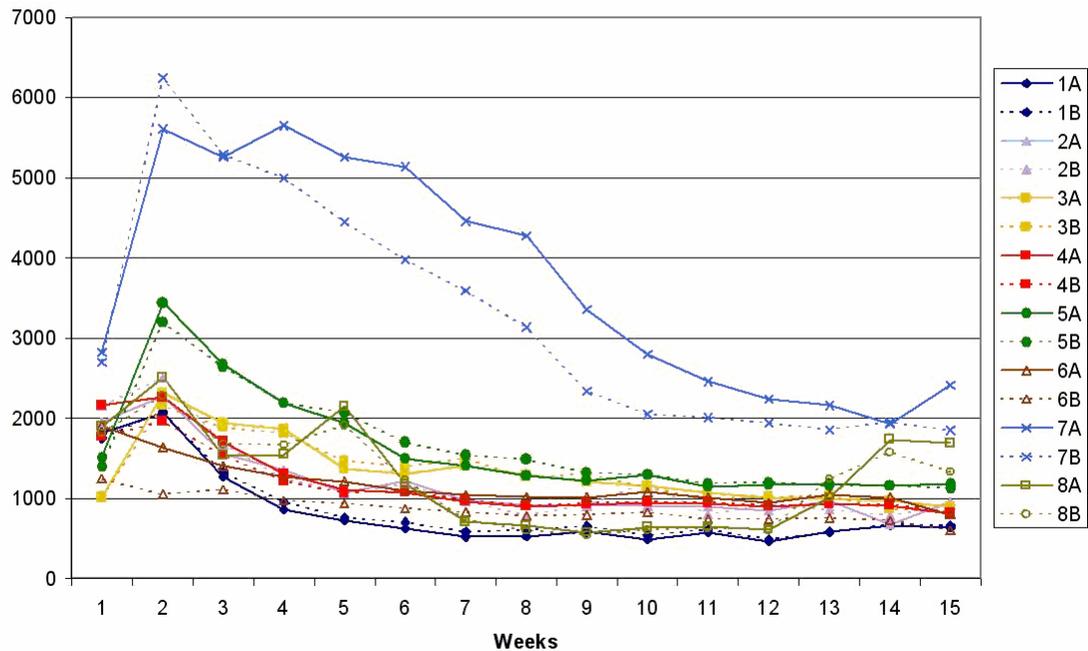


Figure 7.9. Patterns of variation of conductivity (microsiemens) from duplicate columns.

Alkalinity

The Brush Creek Shale produced significant alkalinity concentrations in Phase 1 (see Hornberger et al., 2003) and Phase 2 (see Brady et al., 2004) of this method development project. Most labs reported alkalinity values of several hundred mg/L throughout the 14 week leaching period for the Brush Creek Shale, but there was some scattering of values as shown on Figure 7.11. When the data are plotted for Labs 4 and 5 only, the scatter disappears and the duplicate samples are very consistent, as shown on Figure 7.12. The configuration of this plot is indicative of attaining calcite solubility control as described in Brady et al., (2004).