The data plotted in Figure 8-12 exhibit a curvilinear behavior, suggesting that some type of log or exponential function can be fitted. Cumulative flux data were plotted and found to fit

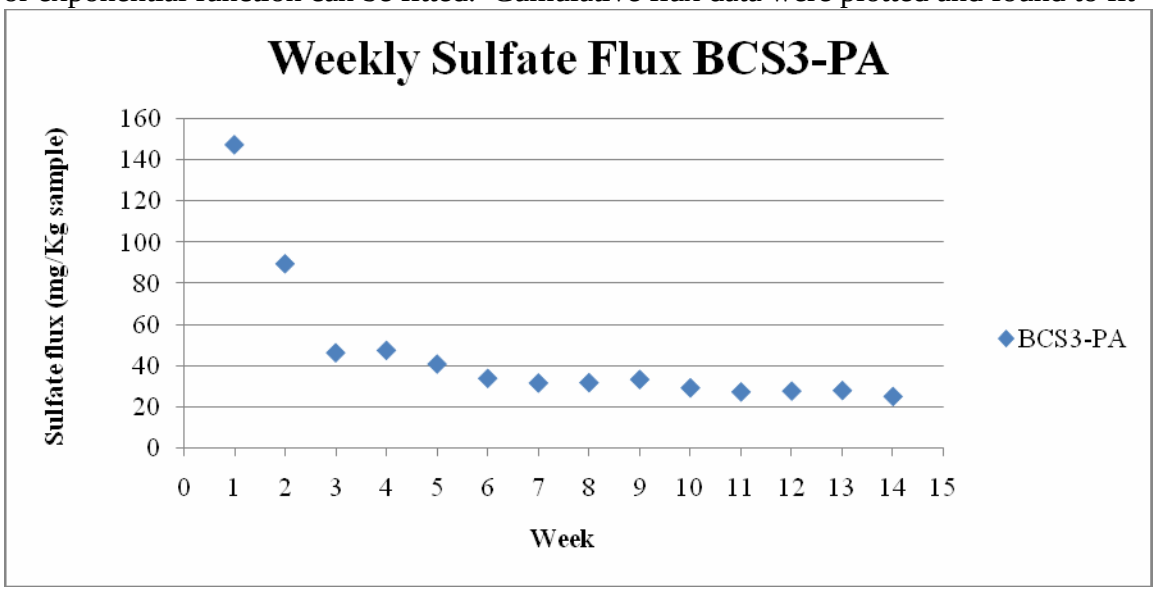

Figure 8-12. Weekly Sulfate Flux (mg/Kg sample) for BCS3-PA. Values are medians of all labs.

either a power or natural log functions of the general forms:

$$y = bx^m \qquad \text{(power)}$$
$$y = m*\ln(x) + b \qquad \text{(natural log)}$$

Figure 8-13 shows sulfate flux data for BCS-PA (same as figure 8-12) plotted on a cumulative

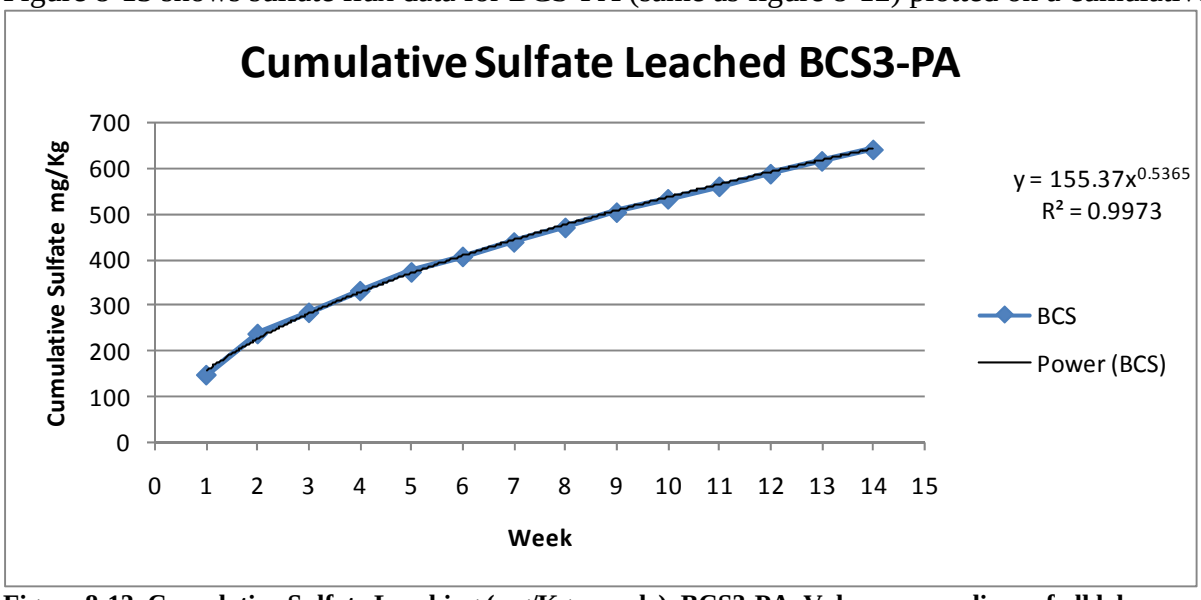

Figure 8-13. Cumulative Sulfate Leaching (mg/Kg sample), BCS3-PA. Values are medians of all labs.

basis with a fitted power function. Other samples and element flux data showed behavior similar to figures 8-12 and 8-13, and generally fit either a power or natural log function. The fit of these functions shows that element flux can be estimated; if leaching conditions are constant and mineral solubility influences are absent.