ABSTRACT

This paper represents a master’s project that is a preliminary surface, and sub-surface soil survey of the Lytle Creek sub-Watershed, near Devore, California. The sub-Watershed is a recreational site within the San Bernardino National Forrest, and has been the site for previous Water Quality studies of students of CSUSB. Recently (October-November of 2008), detectable lead levels were noted by students in the course of some Water Quality studies. The site has two(2) Shooting ranges, and potential lead contamination within the site is of concern to the Forestry Department, and to local residents downstream from the gun ranges. No previous studies of the lead concentrations within the sub-Watershed have been found in recent literature searches. The project will include a literature search of the area, and sample testing of soils from above the shooting range in the upper areas of the watershed, to the I-15 freeway, where the watershed feeds the Greater Santa Ana River drainage basin. This study is not meant to be exhaustive, but should offer some valuable insights into the presence of current lead contaminant levels, compared to normal environmental lead levels.
Other chemical characteristics of the soil samples may also be examined, to increase the understanding of any noted lead contaminant movement within watershed.

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