



FORESTRY, FIRE & STATE LANDS REQUEST FOR PROPOSALS Cover Sheet



Project Title	Determination of groundwater selenium influx to the Great Salt Lake from the Salt Lake Valley and East Shore basins.		
Lead Project Sponsor	BIO-WEST, Inc.		
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Project Description / Abstract	<p>Groundwater seepage is a potentially significant source of selenium influx to the Great Salt Lake (GSL). The selenium mass balance of the GSL has been studied in recent years, but these studies have not quantified the annual selenium influx to the GSL via groundwater transport. The studies state that groundwater may contribute a significant annual selenium load to the lake. In order to gain a better understanding of selenium cycling within the GSL, BIO-WEST requests funding to study the annual selenium influx to the GSL from the Salt Lake Valley and East Shore groundwater basins via groundwater seepage. The study area includes these basins because of the high level of industrialization within the basins and because they are both significant groundwater inflow sources to the GSL. BIO-WEST would conduct a literature review, including an examination of existing U.S. Geological Survey groundwater models, in order to determine the annual groundwater seepage to the GSL from the study area. We would then collect samples from 20-30 wells near the GSL and analyze them for selenium concentration using ultra-low detection analytical methods. The sampling results, along with published data examined during the literature review, would then be used to calculate the annual selenium load to the GSL from the study area. This information would provide a minimum annual selenium influx to the GSL via groundwater seepage that could be used in future studies related to the selenium mass balance of the GSL, and would aid in the understanding of selenium cycling within the GSL.</p>		
Project Funding	Amount Requested	Matching Funds	Total Project Cost
	\$75,000.00	\$0	\$75,000.00