



Projects and Activities Tue Mar 20 05:50:56 HST 2018

<b>Name</b>	Groundwater Tracers to Evaluate Connection Between Inland and Coastal Groundwater Systems, Kona Area, Island of Hawaii
<b>Timeframe</b>	- Multi-decadal (scenarios)
<b>Capability Area: Impacts/Adaptations</b>	<ul style="list-style-type: none"> <li>- Understanding Climate Impacts and Informing Adaptation</li> <li>- Climate Impacts</li> <li>- Research/Development</li> <li>- Climate Adaptation</li> <li>- Assessment and Evaluation</li> </ul>
<b>Sectors</b>	<ul style="list-style-type: none"> <li>- Fresh Water Resources</li> <li>- Community Planning and Development</li> </ul>
<b>Status</b>	- Ongoing
<b>Focus Area</b>	- Fresh Water Resources and Drought
<b>Regions</b>	<ul style="list-style-type: none"> <li>- Central North Pacific</li> <li>- State Of Hawaii</li> </ul>
<b>Description</b>	<p>Since 1970, west Hawaii has experienced a population increase of about 83 percent and the fastest economic growth on Hawaii Island, although the effects of development on groundwater resources remain uncertain. At issue among stakeholders is whether urban development over, or withdrawals of freshwater from, the high-level groundwater system will adversely affect the coastal groundwater system, which itself is developed for municipal, agricultural, and industrial uses and which sustains aquatic resources. The results from this study will help water managers and other stakeholders to better understand potential risks to coastal water resources associated with groundwater withdrawals from, and development over, the inland high-level groundwater system. This study is consistent with the USGS mission to provide a clearer knowledge of the status of water resources; specifically, the likely changes in land use, land cover, and water use on water quality and ecosystem health.</p>
<b>Objectives/Outcomes</b>	The objective of this study is to evaluate whether groundwater from the high-level system discharges into the coastal groundwater system, and whether there are characteristic chemical or isotopic signatures that aid in making this discrimination.
<b>Lead Agencies</b>	USGS/PIWSC
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<b>Partnering Agencies</b>	Hawaii State Commission on Water Resource Management
<b>Projected Timelines</b>	May 2012 through September 2014

Url	<a href="http://hi.water.usgs.gov/studies/isotopes/">http://hi.water.usgs.gov/studies/isotopes/</a>
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