



W. M. KECK OBSERVATORY  
Maunakea, Island of Hawai'i

### W. M. Keck Observatory | Hydraulic Fluid Investigation Timeline

April 19, 2018	Technicians discover hydraulic fluid seeping on the pier wall; immediate action taken to contain the seepage using absorbent material.
May 29, 2018	Internal task force is formed to pursue top-priority investigation.
June 4, 2018	Cinder sampling suggests presence of hydraulic fluid; immediate notification sent to Hawai'i State Department of Health (HDOH), Office of Maunakea Management (OMKM) and Department of Land and Natural Resources (DLNR).
June 5, 2018	Keck Observatory issues a public news release and launches <a href="http://www.keckobservatory.org/responsibility">www.keckobservatory.org/responsibility</a> to maintain full transparency.
June 7, 2018	Masa Fujioka and Associates (MFA), a third-party environmental consultant, is formally retained to conduct a site reconnaissance assessing the extent of the release.
June 2018	MFA initiates preparation of initial Environmental Hazard Evaluation (EHE) and Environmental Hazard Management Plan (EHMP).
August 1, 2018	Representatives of DLNR and OMKM visit summit facilities for thorough in-person inspection.
September 5, 2018	Representatives of the HDOH, Hazard Evaluation and Emergency Response Office (HEER) and OMKM visit the Summit to assess the situation and provide additional guidance and recommendations for preparation of the EHE and EHMP.
September 28, 2018	Sakoda Construction installs a sealant in the one-inch wide gap between the pier supporting the Keck I telescope and the building's floor, fully containing the release.
November 9, 2018	An EHE and EHMP are filed with HDOH.
December 19, 2018	HDOH requests clarification on magnitude of contamination and greater detail on monitoring and inspections.
March 18, 2019	An updated EHE and EHMP is submitted to HDOH
March 25, 2019	The HDOH notifies W. M. Keck Observatory that no further action is required via an NFA with IC letter, closing the case.