

## THE JAMES RESERVE SUSTAINABILITY AND IMPROVEMENT PROJECTS

Protecting the natural environment is integral to conducting the University of California Natural Reserve System's (UCNRS) mission of contributing to the understanding and wise stewardship of the Earth and its natural systems by supporting university-level teaching, research, and public service at protected natural areas throughout California. As part of the UCNRS, the James Reserve is dedicated to reducing our impact on the environment by upgrading our facilities to be energy efficient and sustainable and to improving our equipment.

This list of projects that we hope to accomplish will preserve the James as a critical resource for researchers, students, and visitors. Your support of these projects will help us achieve impactful results.

- We aim to replace the wood stove insert at the Blair House with a modern and eco-friendly model that meets EPA standards and is 60% more efficient than the older style currently installed. \$700 would allow us to buy this new stove.
- We would like to replace the light fixtures in the Trailfinders lodge with energy-efficient fixtures. Around 30 improved light fixtures will cost \$450.
- Using LED bulbs in all light fixtures will reduce the energy used to produce light by 85%. \$120 provides the LED bulbs needed to replace current models.
- The windows of the Trailfinders Lodge are single pane and do not seal. \$4000 would replace all 23 windows with energy-efficient, double paned windows.
- In order to sustain the integrity of Lolomi, we need to replace the rotten timbers that form the base of this beloved structure which will cost approximately \$100,000.
- Lolomi is also in need of a new roof and we hope to install a sustainable metal roof that will last at least 50 years. \$4000 would replace the roof.
- A new \$80 alternator for our tractor allows us to maintain our grounds, trails, and roads. The tractor just stopped running before the 2018 Annual Reunion!
- To maintain access to the James Reserve, our road needs continual maintenance using sustainable disintegrated granite and gravel. A year supply of these materials costs approximately \$1,000.
- Improved teaching tools would greatly impact our ability to involve students of all ages in scientific learning and discovery. A \$190 compound microscope with a camera will allow us to capture still images and view live stream videos for interactive and hands-on science outreach.
- Repair Grace James' piano in Lolomi.

Thank you for your continued support of the James Reserve!