



SUMMIT LAKE PAIUTE TRIBE

Primary Administrative Office

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SUMMIT LAKE PAIUTE COUNCIL

Chairwoman: Randi Lone Eagle • Vice-Chairperson: Nedra Crane

Secretary/Treasurer: Eugene Mace Sr. • Council Member: Philip Frank • Council Member: Steven Crane

REQUEST FOR SERVICES

Title: Provide Light Detection and Ranging (LiDAR) flight and data processing for Summit Lake watershed, including over Summit Lake Reservation.

Posted Date: May 28, 2021

Due Date: June 30, 2021

Duration of Services: To be determined after selection of contractor

Description of Services: Contractor shall provide the following services:

1. Collect NIR LiDAR data over the project area using a high pulse rate LiDAR system to produce a highly accurate, high resolution (>8 pulses/m²) LiDAR dataset with no gaps and ample buffers (at least 100m) around project boundaries. Data will be collected at a $\leq 40^\circ$ field of view ($\pm 20^\circ$ from nadir), with at least 50% overlap among swaths to minimize gaps and laser shadowing.
2. Provide LiDAR processing including kinematic corrections, calculation of laser point position, relative accuracy testing and calibrations, classification of ground and non-ground points, assessments of statistical absolute accuracy, and creation of ground surface models.
3. Collect multispectral imagery with a large format digital camera in 4 bands (R,G,B, NIR) with $\geq 60\%$ along-track overlap, and $\geq 30\%$ sidelap. Imagery should be collected with a native pixel size (ground sample distance) of 15 cm. Orthophotos will be collected during peak sun angles for the day, under clear conditions with minimal cloud cover. The resulting processed data product will be is 8-bit true color imagery rectified to fit the LiDAR-derived DEM of the study area, and provided as tiled, color-balanced ortho-mosaic.
4. Deliverables will include point cloud data, surface models (Bare Earth DEM, 1 m resolution, GeoTiff format; Highest hit DEM, 1 m resolution, GeoTiff format; Intensity Images, 0.5 m resolution, GeoTiff format), vectors (Survey Boundary, shapefile format; Tiling delineations, shapefile format), and final report.

Minimum Qualifications: Contractual consultants must possess at least a bachelor's degree in relevant fields, with at least ten years of experience in providing the services as outlined above. The consultant should possess all equipment and supplies necessary to carry out the services and expertise to produce the desired deliverables at an acceptable level for use by the Summit Lake Paiute Tribe.

The Summit Lake Paiute Tribe complies with all Federal statutes relating to nondiscrimination and shall comply with Bureau of Indian Affairs regulations for Indian Preference and EPA regulations concerning Small Business Enterprises, Minority Business Enterprises, and Women Business Enterprises.

Submit quotes, narrative, and documents to physical address above or by email to Summit Lake Paiute Tribe at admin@summitlaketribe.org with the subject line: "LIDAR Request For Services Proposal." The narrative shall describe qualifications of the consulting business, terms and conditions to be honored in a contract for services, how services will be accomplished, and an itemized cost to achieve services outlined above. The selection of contractor will be decided in accordance with the Summit Lake Paiute Tribe procurement procedure manual (as amended). The packet must be received by Wednesday, June 30, 2021 at 5:00 pm.