



SAMPLE SUBMITTAL SHEET FOR LUMINESCENCE DATING OF SEDIMENT

- Please refer to the sampling guides available at <http://usu.edu/geo/luminlab/submit.html> before collecting and submitting OSL samples. **Follow shipping directions listed at bottom of form.**
- A completed sample sheet must accompany each sample, for projects with >5 samples use the Excel sample sheet. **Fill out with as much detail as possible in the field.**
- Embargo Age results for 5 years? YES | NO = OK for data to be included in an on-line database.

REQUIRED for Dose Rate calculation.

Needed for cosmogenic contribution to the dose rate.

SCIENTIST & AFFILIATION:		DATE:
PROJECT & SAMPLE LOCATION:		
OSL SAMPLE NUMBER:		
ANALYSIS REQUESTED (circle)		Small-aliquot Single-grain RUSH (=2x price)
DOSE RATE SAMPLE NUMBER - use similar to OSL sample, include DR in name. Should be a representative sample of sediment from 10-cm radius of OSL tube.		
WATER CONTENT SAMPLE NUMBER In air tight container, include H ₂ O in name.		
BURIAL DEPTH (in meters) Include notes on buried soils and recent deposition/erosion that may influence burial-depth history. Do <u>not</u> collect from <1 meter depth due to contamination with young grains and problems with dose rate calc.		
ELEVATION (in km above sea level)		
LATITUDE/LONGITUDE (in decimal degrees)		
ESTIMATED AGE (other age control)		
DESCRIPTION OF MOISTURE HISTORY (Is the sample representative of burial history?, explain)		Lab Use Only H ₂ O Content:
SAMPLE TYPE (circle one)		TUBE BLOCK CORE QTY: _____
COLLECTION TYPE OF TUBE/ ENDCAPS DO NOT use PVC tubes or caps, or threaded metal end caps; they are very difficult to remove during sample extraction in the dark lab.		Tube: METAL OTHER: _____ End caps: RUBBER OTHER: _____
SEDIMENTARY/STRATIGRAPHIC DESCRIPTION: (submit pictures/drawings - attach to back)		

SAMPLING PROCEDURE CHECKLIST: **Return OSL tubes?** **N** **Y** (will incur shipping charges)

- Sampled representative sediment environmental dose rate from 10-cm radius (in 1 qt/L zipbag)
- Sampled for moisture content (in film canister or air tight container), include description of history
- Sampled at >1m depth
- Tube is tightly packed**, used styrofoam or duct tape plug in tube to avoid mixing and shaking
- Targeted fine-medium sand lenses (preferably >30 cm thick), avoid clay layers < 30 cm away
- Cleared outcrop back to fresh exposure
- Avoided bioturbation, soils and underlying erosional unconformities
- Primary sedimentary structures seen
- Documented with photos, measured sections

SHIP SAMPLES TO:

USU Luminescence Lab
 1770 North Research Parkway
 Suite 123
 North Logan, UT 84341

Label all samples and package: 'Light-sensitive mineral samples for geologic analysis. All material will be consumed in analysis. No monetary value'.

International samples: Send via international shipping company such as UPS, FedEx, DHL, TNT, do not use local postal service.

Email tracking number to: tammy.rittenour@usu.edu ; michelle.nelson@usu.edu