

GRAHAM MATTHEWS & ASSOCIATES

SEDIMENT LABORATORIES

GMA is an experienced, diverse consulting firm established in 1990, comprised of hydrologists, geomorphologists, and biologists. The company is led by Graham Matthews, Principal Hydrologist, who has over 29 years experience in hydrology, fluvial geomorphology, and stream restoration design and construction.

QUALITY SERVICE FOCUS

- ✓ USGS SLQA CERTIFICATION
- ✓ TIMELY RESULTS
- ✓ ACCURATE REPORTING
- ✓ PROJECT AND CLIENT DRIVEN
SPECIALIZATION



Graham Matthews & Associates operates two in-house Water Quality Laboratories, specializing in detection and analysis of fine and coarse sediment concentrations. Each lab is fully equipped for high-volume, rapid analysis.



Both **GMA** Water Quality Laboratories are inspected and approved by the USGS. The fine sediment lab has participated in the USGS Sediment Laboratory Quality Assurance Program (USGS SLQA)

since 2001. Laboratory results from **GMA** Water Quality Lab's are acceptable for publication by the USGS.

GMA Laboratory sample results are entered into the WISKI Water Quality Module (WQM). WQM is a fully integrated WISKI Module, which allows seamless transfer of data into the WISKI hydrologic workbench to timeseries and hydrographic analyses.

(Please see the Computations Information Packet for more information on WISKI)

The GMA Fine Sediment Laboratory, Weaverville, CA, capabilities include:

- Suspended sediment concentration, sand/fine splits, and particle size distribution analysis (> 0.062mm, wet sieve), using ASTM Method D3977-97;
- Turbidity, consistent with EPA Method 180.1;
- Two USGS Quality Assurance Reviews, performed by Allan Mlodnosky, Sediment Lab Chief, USGS California Water Science Center;
- The GMA lab has participated in the USGS SLQA Quality Assurance Program since 2001;
- The lab has processed more than 12,000 samples since 2000;
- GMA has analyzed sediment samples for a wide variety of clients including Federal, State, Tribal, County, and Private entities.

Representative clients and projects include:

US Bureau of Reclamation	Trinity River Sediment Monitoring 2004-2009
Klamath Tribes	Development of a Sediment Budget for the Sprague River 2004-2006
US EPA	Sediment Source Analysis for the Mad River 2005-2007
Trinity County RCD	South Fork Trinity Watershed Monitoring and Upper Trinity Watershed Assessment Projects
El Dorado County DOT	Geomorphic Monitoring of the Angora Creek SEZ Restoration Project
Redwood National Park	Lost Man Creek Monitoring Project

The GMA Coarse Sediment Laboratory, located in Arcata, CA, capabilities include:

- Bedload & Bulk sample analysis over a full range of sediment particle sizes (0.063 mm – 256 mm);
- Rigorous QA/QC procedures and sample tracking;
- One quality assurance review by Allan Mlodnosky, Sediment Lab Chief, USGS California Water Science Center;
- Bedload and bulk sample data accepted for publication by USGS.

Representative clients and projects include:

Trinity County	Trinity River Instream Gravel Quality Monitoring
Sotoynome RCD	Garcia River Substrate Monitoring
Western Shasta RCD	Clear Creek Geomorphic Monitoring
US Bureau of Reclamation	Trinity River Sediment Monitoring 2004-2009

OFFICE LOCATIONS

Weaverville, CA
(530) 623-0520

Arcata, CA
(707) 825-6681



Placerville, CA
(530) 623-0402

www.gmahydrology.com