



# Resume for Geoffrey S. Elliott

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*Earth Scientist working toward healthier, resilient watersheds with clean water, robust agriculture, fishable/swimmable streams and lakes, and sustainable communities*

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**Stream Corridor Restoration** — Taking a holistic, watershed approach combining better land management with riparian (streamside) and instream habitats; Project Manger for the Upper Colorado River Watershed Group (UCRWG).

**Water-Related Infrastructure** — Projects include fish-friendly diversions for irrigation, municipal water and wastewater systems, flood recovery assessment and restoration planning, road and utility crossings, docks and boathouses, water rights due diligence.

**Cost-Effective** — Hands-on field scientist guiding projects from initial site assessment through resource planning and permitting, construction oversight, and long-term adaptive management.

**Regulatory Analysis + Technical Writing** — Long experience with regulatory analysis for water-and-sanitation industry, federal resource management especially NEPA + Clean Water Act, watershed best management practices, community outreach.

**Interdisciplinary Team Player** — Comfortable in inter-agency and construction settings, able to work with engineers, attorneys, environmentalists, and accountants. Safety minded, OSHA 3May20

**Experience** — Grand Environmental Services 1994-Present (Principal Earth Scientist, Installation Foreman, Ranch Manager), Shipley Associates 1991-1993 (Workshop Trainer in NEPA process and compliance reporting, worked in 11 states), Wasatch Geotechnical 1989-1991 (Project Geologist), Freelance Writer 1987-1989, US Geological Survey 1980-1986 (Geologic Field Assistant).

**Awards** — Colorado Lottery Starburst Award 2014, Congressional Recognition for Responsible Use of Public Funds ~2011, Colorado Department of Public Health and Environment choice for Water Project of the Year then advanced to USEPA Region 8 Consideration 2010, US Forest Service Certificate of Appreciation for “*best Environmental Assessment supporting a land exchange in the US*” 2003, National Association of Environmental Professionals NAEP Committee of the Year 1994

## Education and Skills

- BSc. Earth Science 1980, MSc. Geology 1986
- Continuing education in watershed science, erosion and sediment control, stream corridor assessment
- Wetland delineation, surveys, GPS mapping, Certified Professional in Erosion and Sediment Control #5082

Rotary E-Club for Water, Sanitation, and Hygiene (WASH), Committee Chair for Community Assessment and Citizen Science



# Representative Projects #1 for Geoffrey S. Elliott, Earth Scientist

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**2016-Present: Project Scientist for the Upper Colorado River Watershed Group** – technical team leader helping build new 501(c)(3) watershed organization created under US Bureau of Reclamation WaterSMART program. Now moving into next phase in the 100-mile<sup>2</sup> North Fork Colorado River Watershed including the Kawuneeche Valley in Rocky Mtn National Park also private lands extending down to the water-quality impaired Shadow Mtn Reservoir. Citizen-Science poster [Kawuneeche Group Beaver Baseline](#) presented at the RMNP Research Conference early March 2020.

**2012-Present: Ranch Manager for Fly-Fishing Property on the Colorado River**, restored in-stream habitat including fish-friendly irrigation diversions, bank stabilization, and micro-habitat boulder clusters, also restored ditch system and riparian lands including hayfields. Now producing regular hay crop again, due diligence supporting agricultural tax status.

**2000-Present: Technical Advisor for 10+ Boathouse Projects and associated Shoreline Restoration**, early consultation including feasibility studies during property transfer, wetland and shoreline assessment for design recommendations and permitting, construction oversight and in-lake facilitation, shoreline erosion and sediment control then landscaping, permit closure. Also many docks and associated infrastructure.

**2014-2019: Stream Restoration Masterplan in the Fraser River Headwaters**, extensive assessment, analysis, and Cutthroat-Trout-friendly design work to support trout fishery along 1/4 mile of creek, installations mostly by hand to protect sensitive sub-alpine forested wetlands.

**2017-2018: Project Scientist for Town of Fraser Cozens Ranch Open Space Master Plan**, on Technical Team advising THK Associates (Landscape Architects) including wetland and river assessment, recommendations for watershed best management practices, approved by Town Council Spring 2018, now moving into infrastructure for 2020.

**February 2015: [Restoring River Resiliency after the 2013 Colorado Floods, Lessons We Might Learn \(Maybe\)](#)** – Flood-recovery presentation to the Rotary District 5450 Water, Sanitation, and Hygiene Conference in Lakewood, CO 14Feb15.

**October 2014: [Riparian Plumbing Repair for Watershed Resilience](#)** – Flood-recovery presentation at Sustaining Colorado Watersheds conference, “Resilience, what is it?” track hosted by USEPA + FEMA.

**June 2014: [Riparian Groundwater Monitoring Sheds Light on Wetland Impacts from Moffat-Gross Trans-mountain Diversions](#)** — Hydrogeologic support for final EIS comments presented to Grand County and Boulder County Commissioners on behalf of The Environmental Group Colorado and Citizens for Sustainable Water Management, Boulder Colorado, 16June14.



# Representative Projects #2 for Geoffrey S. Elliott, Earth Scientist

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**April-May 2014: Rapid Assessment, Restoration Design, and Wetland Permitting for Five Flood-Recovery Projects along the Big Thompson and North Fork Big Thompson Rivers** including Loveland, Drake, and Glenn Haven for the Big Thompson River Restoration Coalition, April-May 2014.

**2012-2014: Water Augmentation Intake + Related Bank Stabilization on the Fraser River for Winter Park Ranch Water and Sanitation Department** – site assessment and design recommendations for fish-friendly diversion, Corps of Engineers wetland permitting including consultation with US Fish and Wildlife Service, engineering coordination and construction oversight including erosion and sediment control. Installed September 2014, stable after 5 runoff seasons.

**2003-2014: Pedestrian Bridge over the Colorado River in Hot Sulphur Springs** – site assessment, initial designs for project proposed by local High School students for new riparian park, master planning + public scoping + alternatives development funded by Great Outdoors Colorado (GOCO) planning grant coupled with National Fish and Wildlife Federation 5-Star Grant for fish-friendly diversion, wetland permitting and engineering support for construction designs, secured funding from Colorado Department of Transportation combined with additional GOCO Local Parks and Outdoor Recreation Grant for park related amenities including new environmental education center. Project installed 2013, our team receiving Colorado Lottery Starburst Award for Money Well Spent in 2014 – Pedestrian Bridge over the Colorado River funded by CO Dept of Transportation + Great Outdoors Colorado *“recognizing excellence in the use of Lottery Funds for community and conservation projects...winners are chosen based upon the creativity of the project, economic and social impact on the community, and whether the project achieved its goal.”*

**October-December 2013: Rapid Assessment for 22 Miles of the Big Thompson and North Fork Big Thompson Rivers** – NRCS Stream Visual Assessment Protocol (SVAP2), for the Big Thompson River Restoration Coalition (BTRRC). Results integrated into BTRRC Watershed Masterplan.

**2013: Rotary Sabbatical in Highlands of Ecuador** – worked with local water-system managers to evaluate existing and proposed new water intakes at very high elevations in and around Malingua Pamba, Cotopaxi Province. Designed and led installation of new “gravel burrito” intake filter feeding distribution system for agricultural and household water supply.

**2000-2012: Water and Wastewater System Improvements for Grand County Water and Sanitation District #1**, site assessment, design recommendations, Special Use permitting on National Forest System lands, environmental oversight, and reporting for Little Mac and Big Bac Water Treatment Plants, fish-friendly intake on the Fraser River and pipeline through wetland complex for water-augmentation lagoons, water tank.



# Representative Projects #3 for Geoffrey S. Elliott, Earth Scientist

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**2006-2011: Program Manager for New Water Treatment Plant, Water Intake, and Colorado River Restoration in Hot Sulphur Springs** – ARRA Stimulus Program Manager for assessment, design, and installation oversight for state-of-the-art water treatment plan including water intake and storage tank. Our management team received Congressional Recognition for responsible use of public funds and CDPHE Choice for Water Project of the Year 2010, advanced to USEPA Region 8 consideration.

**2003-2014: Pedestrian Bridge over the Colorado River in Hot Sulphur Springs** – site assessment, initial designs for project proposed by local High School students for new riparian park, master planning + public scoping + alternatives development funded by Great Outdoors Colorado (GOCO) planning grant coupled with National Fish and Wildlife Federation 5-Star Grant, wetland permitting and engineering support for construction designs, secured funding from Colorado Department of Transportation combined with additional GOCO Local Parks and Outdoor Recreation Grant for park related amenities including new environmental education center. Project installed 2013, our team receiving Colorado Lottery Starburst Award for Money Well Spent in 2014 – Pedestrian Bridge over the Colorado River funded by CDOT + GOCO. *“Recognizing excellence in the use of Lottery Funds for community and conservation projects...winners are chosen based upon the creativity of the project, economic and social impact on the community, and whether the project achieved its goal.”*

**1998-2010: Water and Wastewater System Improvements for the Winter Park Water and Sanitation Dept**, site assessment, design recommendations, Special Use permitting on National Forest System lands, environmental oversight, and reporting for water tank, L-Line and A-Line including fen wetland restoration and creek restoration at “Swamp Lot,” willow-friendly wastewater return to Fraser River.

**1998-2008: Ski Resort Maintenance and Upgrades for Winter Park Resort**, site assessment, design recommendations, Special Use permitting on National Forest System Lands for a variety of projects including ski lifts, trails, access roads, and pump-back augmentation planning throughout the resort including Swede’s Ridge, Vasquez Cirque, Zephyr Lodge, Corona, and North Bench.

**2001-2012: Broome Hut at Tree Line near Berthoud Pass** – environmental assessment, planning, permitting, and construction oversight for reconstruction of cabin by Grand Huts Association in Second Creek Drainage. Now one of the most popular huts in 10<sup>th</sup> Mountain System.

**2000-2002: Winter Park Land Exchange II** – site assessment of ~ 1,750 acres of land on seven inholding parcels surrounded by National Forest System lands including wetlands and species of concern, and impact assessment for trade by Winter Park Recreational Association for ~17 acres at the West Portal of the Moffat Tunnel. Successful project received Certificate of Appreciation by Forest Service Chief Dale Bosworth for *“best EA supporting a land exchange in the US.”*

