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EDUCATION: BS Chemistry, BS Sciences Interdisciplinary, 1975, University of West Florida.

CURRENT POSITION (April 2008 - present): CEO and Principal, Craft Geochemistry Consulting, LLC, Lakewood, Colorado. <http://www.craftgeochemistry.com>

FORMER POSITION (July 1974 - March 2008): Research Chemist, GS-14-10. [Fisheries and Wildlife Resources Group](#), mail code 86-68290, U.S. Bureau of Reclamation, Technical Service Center, PO Box 25007, Denver CO 80225-0007. Principal investigator for research projects related to environmental chemistry and geochemistry. In-house consultant on environmental and analytical chemistry, quality assurance and chemical analysis data validation, planning and design of water quality monitoring networks, interpretation of environmental chemistry data, applied statistics, computer modeling, and seepage geochemistry assessment. *Most Recent Activity*: Principal investigator on 3 Tracy Fish Facility Improvement Program studies, and 2 dam safety research program projects; Senior Editor for Tracy Series Reports; webmaster for Tracy Research and Fisheries and Wildlife Resources Group websites.

EXPERIENCE: 34 year's experience as a research principal investigator and consultant working in a civil engineering/water resources management agency: Fate and transformation of environmental contaminants, especially mercury and trace metals, at the reservoir and watershed scale; Predicting lake and reservoir water quality using microcosm sediment-water simulation; Chemistry of sediment-water interface in thermally-stratified lakes and reservoirs and the behavior of trace metals under anaerobic conditions; Interpretation of dam seepage chemistry and assessment of mineral dissolution using chemical equilibrium models, statistics, groundwater flow models, and stoichiometric mass balance models; Determining equilibrium constants for reactions of trace metals with dissolved humic and fulvic acids; Lability and dissociation kinetics of trace metal complexes in natural waters; Lab simulation of time-constrained biological uptake and bioavailability of toxic compounds; Large-scale multi-basin evaluation of impacts to Western water resources from acid precipitation and other atmospheric pollution problems using a geographic information system; Assessment of chemical tests to identify dispersive clay soils for engineering purposes using multivariate statistics.

RECENT PUBLICATIONS:

- Sigfried, S., Craft, D., Hiebert, S., and M. Bowen, 2000. [Continuous Monitoring of Fish Eggs and Larvae at the Tracy Fish Collection Facility, Tracy California, February-June, 1994](#), Tracy Fish Collection Facility Studies, California, Volume 6, U.S. Bureau of Reclamation, Technical Service Center, Denver, Colorado, and Mid-Pacific Region, Sacramento, California.
- Craft, Douglas, Mao, L., Fields, J., and B. Moore, 2000. [Chemistry and Water Quality at the Tracy Fish Collection Facility, Tracy, California](#), Tracy Technical Report Series, Volume 9, U.S. Bureau of Reclamation, Technical Service Center, Denver, Colorado, and Mid-Pacific Region, Sacramento, California.
- Craft, D., Cannon, N., Zimmer, D, Krill, K., and L. DiMattia, 2000. [Water Quality and Mercury in Lake Owyhee, Southeastern Oregon](#), Technical Report, U.S. Bureau of Reclamation Science and Technology Program, Denver, Colorado, and Pacific Northwest Regional Office, Boise, Idaho.
- Craft, Douglas, and J. Miller, 2001. [Reservoir Sediment-Water Simulation: Pre-impoundment Predictions vs. Observed Water Quality at Ridgway Reservoir, Ridgway, Colorado](#), Technical Report, U.S. Bureau of Reclamation Science and Technology Program, Denver, Colorado, and Upper Colorado Regional Office, Salt Lake City Utah.
- Craft, D., Housewright, R., Mao, L., and J. Fields, 2002. [Semi-Continuous Water Quality Measurements at the Tracy Fish Collection Facility, Tracy, California, April 200 to March 2001](#), Tracy Fish Collection Facility Studies, California, Volume 17, U.S. Bureau of Reclamation, Technical Service Center, Denver, Colorado, and Mid-Pacific Region, Sacramento, California.
- Craft, Douglas, and R. Pearson, 2002. [Horsetooth Seepage Chemistry: Analysis of Seepage Water Chemistry before and during Safety of Dams Modification Construction at Horsetooth Dam, Colorado-Big Thompson Project, Ft. Collins, Colorado, 1999-2001](#), Technical Memorandum D-8290-02-001, U.S. Bureau of Reclamation, Technical Service Center, Denver, Colorado.
- Pearson, R., Hurcomb, D., and D. Craft, 2002. *Gypsum Karst of the Lykins Formation and Effects on Colorado Front Range Water Projects; Horsetooth and Carter Lake Reservoirs*, Proceedings of the Annual Meeting of the Geological Society of America, Denver, Colorado, October 2002.
- Craft, D. and C. Liston, 2003. [Guidelines for Authors of Tracy Series Technical Reports](#), Tracy Technical Report Series, Volume 13, U.S. Bureau of Reclamation, Mid-Pacific Region and Denver Technical Service Center.

Craft, D., Housewright, R., and J. Fields, 2003. [Semicontinuous Water Quality Measurements at the Tracy Fish Collection Facility, Tracy, California, April 2001 to March 2002](#), Tracy Technical Report Series, Volume 22, U. S. Bureau of Reclamation, MP Region and Denver Technical Service Center, 66 pp. including appendix.

Craft, D., Housewright, R., and J. Fields, 2004. [Semi-Continuous Water Quality Measurements at the Tracy Fish Collection Facility, Tracy, California, April 2002 to March 2003](#), Tracy Technical Report Series, Volume 26, U. S. Bureau of Reclamation, MP Region and Denver Technical Service Center, 23 pp. including appendix.

Craft, D., Fields, J., and N.Yoder, 2005. [Mercury in the Carson River Basin, California and Nevada](#), U.S. Department of the Interior, Bureau of Reclamation, Technical Service Center, TSC -2005-8290-001, 81 pp. + appendices.

Craft, D. 2005. [Seepage Chemistry Manual](#), U.S. Department of the Interior, Bureau of Reclamation, Technical Service Center, Dam Safety Program Report DSO-06-03, 81 pp. + appendices.

Craft, D., 2006. [Seepage Chemistry at Yellowtail Dam - A Geochemical Evaluation of Reservoir and Seepage Water and a Bacterial Residue Collected at Yellowtail Dam, Pick-Sloan Missouri Basin Project, Montana](#), Technical Memorandum 86-6829009, Dam Safety Office and Technical Service Center, U.S. Department of the Interior - Bureau of Reclamation, Denver, Colorado, 27 pp.

Craft, D. Cain, C. and C. Sullivan, 2006. [Seepage Geochemistry and Mineral Dissolution at Clark Canyon Dam, Pick-Sloan Missouri Basin Project, East Bench Unit, Montana](#), Technical Memorandum 86-6829010, U.S. Department of the Interior - Bureau of Reclamation, Denver, Colorado, 48 pp.+ appendices.

Craft, D., Del Hoyo, M., Housewright, R. and J. Fields, 2008. [Semi-Continuous Water Quality Measurements at the Tracy Fish Collection Facility - Seven-Year Summary](#), Tracy Technical Report Series, Volume 37, U.S. Bureau of Reclamation, MP Region and Denver Technical Service Center.

Craft, D., Fowler, B., Mao, L., Housewright, R. and J. Fields, 2008. [Composite Sampling and Analysis of Low Concentration Organic Compounds and Trace Elements in Surface Waters at the Tracy Fish Collection Facility, Tracy, California](#), Tracy Technical Report Series, Volume 41, U.S. Bureau of Reclamation, MP Region and Denver Technical Service Center.

REFERENCES - [blue email addresses](#) are active links that will automatically send email to address

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