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STATE OF CALIFORNIA

REGIONAL WATER QUALITY CONTROL BOARD, SAN FRANCISCO BAY REGION

In the matter of: TENTATIVE ORDER ADOPTION OF CLEANUP AND ABATEMENT ORDER for: POINT BUCKLER ISLAND, SOLANO COUNTY	DECLARATION OF TERRY HUFFMAN

I, Terry Huffman, declare as follows:

1. I am President of Huffman-Broadway Group, Inc. I am also a Wetland Regulatory Scientist. My resume is attached as Exhibit 1. I have personal knowledge of the facts in this declaration, and if called as a witness could competently testify to them.

2. I have been to Point Buckler Island twice. I have also reviewed documents relating to Point Bucker, including a report entitled "Point Buckler Technical Assessment Of Current Conditions And Historic Reconstruction Since 1985" prepared by Siegel Environmental and dated May 12, 2016.

3. Any substantial flow of water across the top of the levee at Point Buckler would have left erosion marks that would be readily observable. Water flowing with substantial velocity is powerful, and readily erodes unstabilized dirt. Water flowing over the Point Buckler levee at a depth

of 1.5 feet would deeply erode the levee. When I was at the island, I did not see any sign that water flowed completely across the levee.

4. I have observed a debris wrack line at the island. What I have seen at the island is generally consistent with the white curvilinear perimeter line that can be observed on most of the aerial photographs of the island in the Technical Report. That line represents an accumulation of large woody debris and other debris. I have also observed finer debris and other debris above that line. These bits of debris along the toe to the margin of the levee appear to be the result of wave run-up on the levee. The Technical Report selected debris along the margin of the re-established levee when assessing the wrack line, and therefore may have based its determination on debris that was affected by wave run-up.

5. The report fails to provide evaluation of the debris line alone the more protected areas on the eastern side of the island.

6. The Technical Report does not report the presence of any wrack lines, debris wrack line, or fine debris within the interior, even along the former tidal channels where the levee was breached. One would expect, given the high tide line by provided by the Technical Report based on the observations made of debris wrack line and long term tidal data, that woody debris in some wrack line along the interior channels would be present. There is no evidence that any woody debris was removed from the island. I have reviewed the aerial photographs provided by the Technical Report, and have found no evidence of a wrack line in the interior of the island, even before 2014. The fact that no woody debris or wrack line is present along the interior channels casts doubt on the credibility of the conclusion that the high tide line is at an elevation of 8.2 feet NAVD88.

7. The Technical Report used one data point to adjust tide data from Port Chicago to Point Buckler. Use of one data point is insufficient to make this adjustment. Standard practice would be to install a temporary recording tide gage at the Point Buckler location. In addition, the data point used by the Technical Report involved a wet board. The board approach cannot rule out waves generated by boats and moisture wicking up the dry board from the water surface.

8. I am an experience aerial photo interpreter. I was schooled in aerial photo interpretation by the U.S. Army, the Defense Mapping Agency, and through graduate studies. The

Technical Report used an array of photo sources. None of the aerial photographs was taken specifically for the Technical Report, and the aerial photographs were processed with no standardization of color. The Technical Report uses aerial photographs to try to identify changes in plant vigor and vegetation as it relates to soil moisture. If the colors are not standardized, the photo interpretation becomes significantly more subjective. The Technical Report attempts to relate past conditions and wet and dry periods to site conditions observed during March 2016 indicating that the island has been dried out. But May 2016 photographs taken of the island (provided to me by Mr. Bazel) contradict the report's conclusion.

I swear under penalty of perjury of the laws of the State of California that the facts stated in this declaration are true.

DATED: July 11, 2016.

Terry Huffman, PhD

Huffman-Broadway Group, Inc. *Environmental Regulatory Consultants*
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RESUME OF: Terry Huffman, PhD, Wetland Regulatory Scientist

SUMMARY:

Terry has a unique combination of in-depth experience in program management, ecological research, and the environmental regulatory process. Prior to starting Huffman-Broadway Group, Inc., he was the U.S. Army Corps of Engineers' (Corps) chief wetlands scientist responsible for the development of technology directed toward assisting the Corps Regulatory Program. While at the Corps' Environmental Laboratory in Vicksburg Mississippi, Dr. Huffman developed the wetlands definition currently in use by the Corps and the U.S. Environmental Protection Agency (EPA). He also conducted research and development activities which pioneered the use of multiple field indicators to determine the presence or absence of wetlands vegetation, soil and hydrology conditions. This seminal work led to the development of the wetland delineation methodology in use by the Corps today. As noted in the preface to the Corps' 1987 *Wetlands Delineation Manual*, Part II of the Manual is based on Dr. Huffman's 1980 paper, entitled *Multiple Parameter Approach to the Field Identification and Delineation of Wetlands*. Dr. Huffman also played a major role in developing the language pertaining to wetlands in the EPA 404(b) (1) project alternatives analysis, and was instrumental in the initial development of the Corps' long standing wetlands research and training programs. His 30-plus years of work with the Corps and as a private consultant has provided Dr. Huffman with extensive on-site experience with virtually all types of aquatic and wetland environments and a unique understanding of the environmental permitting and compliance process.

Dr. Huffman has served as a project manager and principal investigator for multi-million-dollar nationally-oriented research programs to aid in the implementation of federal and state policies and regulations, including the Rivers and Harbors Act of 1899, the National Environmental Policy Act of 1968, the Clean Water Act of 1972 and relevant Presidential Executive Orders. His experience has also included studies of plant communities and their relation to inundated soil conditions, assistance in the development of federal and state environmental regulations, development of field and remote sensing techniques for the identification and delineation of critical habitats, and the development of methods for habitat restoration for purposes of mitigating project impacts.

In addition to his research, Dr. Huffman has extensive hands-on experience in the application of his expertise. As a consultant he has also worked closely with both state and federal agencies on numerous occasions, as well as with members of the private sector, conducting wetland boundary determinations using various agency required methodologies (Corps, Department of Fish and Game and California Coastal Commission), review and development of regulatory programs and procedures, development of evidence for litigation, coordination and preparation of expert witnesses for testimony, problem solving and negotiation during the Corps, US Fish and Wildlife Service (ESA Sections 7 & 10a), National Marine Fishery Service (ESA Sections 7,&10a / EFH) US Environmental Protection Agency, US Coast Guard, State Lands Commission, San Francisco Bay Development and Conservation Commission, California Coastal Commission, California Department of Fish and Game and State/Regional Water Quality Boards environmental authorization processes, preparation and review of wetlands mitigation and restoration plans, performing or reviewing assessments of wetlands values and impacts, constructing aquatic and wetland habitats for mitigation, evaluation and permitting for various types of development projects. These projects have ranged from residential/commercial and industrial development, resort development, transportation, farming operations, telecommunications, aviation, aggregate mining, gas pipeline and electric transmission line construction, hydro electric power, marine shipyard, dredging to merchant power development.

Dr. Huffman is a frequently invited speaker and lecturer at conferences, universities and training courses, and has served as a board member of the Association of State Wetland Managers and as a member of the Transportation Research Board's Environmental Committee.

TECHNICAL EXPERTISE:

1. Section 404 Corps – USEPA Jurisdiction Determinations (Standard and Forensic)
2. Section USEPA 404(b)(1) Project Alternatives Analysis
3. Section 404 Corps – USEPA Wetlands Delineation Education, and Field Training
4. Wetland Conservation, Restoration and Creation and Compliance Reporting
5. Corps and USFWS Mitigation Banking Approval Documentation and Compliance Reporting
6. Resolution of Section 404 Corps – USEPA Unauthorized Activities (Civil and Criminal)

7. Policy as Relates to Delineation of Federal and state Wetland Jurisdictional Boundaries
8. The Relationship of Flood Timing, Frequency and Duration of Inundated Soil Conditions to Plant Community Structure Program/Project Management
9. State and Federal Environmental Permit Acquisition and Government Liaison for Clean Water Act, Clean Air Act, NPDES, RCRA, and Natural Resource Damage Assessment, TSCA, NEPA, FERC and CEQA Environmental Regulatory Programs
10. Expert Testimony in Wetlands Ecology, Remote Sensing (Photo Interpretation) and Corps Jurisdiction
11. Civil and Criminal Environmental Investigations Related to Wetlands and Aquatic Habitat Issues
12. Environmental Mediation Regarding Environmental Impact and Jurisdictional Issues

EXPERIENCE:

Dates	Company and Location	Work Responsibility
2008 to present	State Regional Water Quality Control Board and San Francisco Bay Regional Water Quality Board, State of California via contract through San Francisco Marine Institute, Oakland, CA	*Serves as technical member for the Technical Advisory Team for Development of a State Wetlands Definition; develops technical definition, criteria, indicatory methodology and prepares technical memorandum for RWQCB use.*
1988 to Present	The Huffman-Broadway Group, Inc.; San Rafael, California 94901	*Owner, President and Wetlands Regulatory Scientist.* Wetlands Regulatory Consulting; prepares permit applications, delineation reports, mitigation plans and alternatives analysis. Firm consists of 12 professional consultants.
1984 to 1988	Huffman and Associates	*President and Wetlands Regulatory Scientist.* Wetlands Regulatory Consulting; prepares permit applications, delineation reports, mitigation plans and alternatives analysis.
1983 to 1984	Aqua Resources, Inc.; Berkeley, CA	*Vice President.* Wetlands Permitting,
1981 to 1983	Woodward-Clyde Consultants; San Francisco, California	*Senior Project Scientist.* Wetlands Permitting
1977 to 1981	U.S. Army Engineer Waterways Experiment Station; Environmental Laboratory, Vicksburg, Mississippi	*Team Leader/Research Scientist (GS-13) and Government Contracting Officer's Representative*
1976 to 1977	U.S. Army Engineer Waterways Experiment Station; Environmental Laboratory Vicksburg, Mississippi	*Research Scientist/First Lieutenant, U.S. Army Corps of Engineers.* Environmental Laboratory. Habitat Development
Summer 1976	U.S. Army Ft. Belvoir, Virginia	*First Lieutenant.* Combat Engineer.
1975 to 1975	State of Arkansas, Department of Local Services. Little Rock, Arkansas.	Floristic Survey of the Bayou Meto Game Management Area
Summer, 1975	University of Arkansas Fayetteville, Arkansas	Plant Ecology Research Assistant. Department of Botany and Bacteriology. Criteria and definition development for the identification of rare and endangered species, unique ecosystems and wetlands found in the State of Arkansas.
1974 to 1976	University of Arkansas; Fayetteville, Arkansas	*Instructor.* Department of Botany and Bacteriology. General biology and ecology instruction.
1972 to 1974	University of Arkansas; Fayetteville, Arkansas	*Teaching and Research Assistant.* Department of Botany and Bacteriology. General biology, botany, and plant ecology instruction.

PROFESSIONAL EDUCATION:

- PhD, 1976. Botany/Wetland Community Ecology, University of Arkansas, Fayetteville, Arkansas.
- US Army Engineer's Officer Course, 1976. Combat Engineering, Ft. Belvoir, Virginia.
- MS, 1974. Botany/Plant Ecology, University of Arkansas, Fayetteville, Arkansas.
- BSE, 1971. Education and General Biology, Henderson State University, Arkadelphia, Arkansas.

COURSES TAUGHT:

The Jepson Herbarium, U.C. Berkeley

2012 to present: **Wetlands Delineation**; Four day wetlands delineation training for private and agency personnel in use of Corps 1987 Methodology for Identification and Delineation of Wetland Jurisdictional Boundaries. Emphasis placed on the combined use of botanical, edaphic, and hydrologic indicators. Course taught within San Francisco Bay Area, California.

U.C. Berkeley Extension:

2005 to 2011: **Wetlands Delineation**; Four day wetlands delineation training for private and agency personnel in use of Corps 1987 Methodology for Identification and Delineation of Wetland Jurisdictional Boundaries. Emphasis placed on the combined use of botanical, edaphic, and hydrologic indicators. Course taught as part of U.C. Extension's Environmental Certificate Program. Course taught within San Francisco Bay Area, California.

University of Arkansas, Fayetteville:

1972-76. **General Biology**. A study of the general chemical, morphological, physiological, genetic, and ecological characteristics of plant and animal life. Two semester course. Three hours of lecture and laboratory per week.

1975. **Advanced Plant Ecology Laboratory.** Phytosociological techniques of sampling and classification of common plant communities of Arkansas. Laboratory three hours. Field trips required. 1972-76.
Plant Taxonomy Laboratory. The identification, classification, and collection of representatives of the different groups of plants. Lecture two hours, laboratory four hours.

1972-75. **Plant Ecology Laboratory**. The study of plants in relation to their environment, with an emphasis on the study of plant community structure, classification distribution and development. Lecture two hours, laboratory four hours.

1972-74. **General Botany.** A study of the characteristics, forms, structures, and classification of plants. Lecture three hours, laboratory two hours.

Environmental Protection Agency:

1986-90: Team Instructor -- **Wetlands delineation techniques and investigative technique for possible Section 404 violations**. Sponsored by the U.S. Environmental Protection Agency.

U.S. Army Corps of Engineers:

May 2007: Team Instructor -- Corps **Regulatory IV** -- Five day Wetlands delineation training for Corps and USEPA Regulatory Staff in use of Corps 1987 Methodology for Identification and Delineation of Wetland Jurisdictional Boundaries. Emphasis placed on the combined use of botanical, edaphic, and hydrologic indicators. Course taught within Sacramento, California.

1980 and 1981: Lead Team Instructor -- **Introduction to Wetlands of the Northwestern United States**. A five to eight-day intensive training course on the field identification and delineation of Alaskan Wetlands. Emphasis placed on the combined use of botanical, edaphic, and hydrologic indicators. Course taught within Anchorage and Prudhoe Bay, Alaska area on an annual basis.

1980 and 1981: Lead Team Instructor -- **Introduction to Wetlands of the Northeastern United States**. A five to eight-day intensive training course on the field identification and delineation of northeastern wetlands. Emphasis placed on the combined use of botanical, edaphic, and hydrologic indicators. Course taught within Hickory Corners, Michigan area.

1980: Lead Team Instructor -- **Wetlands Executive Course.** A two-day intensive training course on wetlands, identification and delineation techniques, values and impacts, restoration, recent policy issues and changes. Course taught within the Washington, D.C. area.

American Bar Association:

1982: Institute faculty member -- **Wetlands Boundary Identification.** Legal Institute on Flood Hazard Area, Mudflows and Wetlands. San Francisco, California.

George Washington University Law School:

1980: Guest lecturer -- E**nvironmental Law Course. Preparation and presentation of expert testimony for Section 404 cases.**

Environmental Law Institute:

1991. Team Instructor -- Basic **investigative techniques for civil and criminal cases**. Clean Water Act Section 404 Enforcement Workshop. Sponsored by the U.S. Environmental Protection Agency, Region IX, Oakland, CA.

PROFESSIONAL AFFILIATIONS:

1. Association of State Wetland Managers
2. Ecological Society of America
3. Society of Wetland Scientists

PROFESSIONAL RECOGNITION, CERTIFICATIONS & REGISTRATIONS:

1. Professional Registry of Wetland Scientists, Association of State Wetland Managers
2. Qualified Technical Expert in Federal District Courts for Wetlands Ecology, Section 404 Jurisdiction Determinations, and Remote Sensing Interpretation.
3. Granted Full Membership, Society of Sigma XI (an honorary scientific research society)

APPOINTMENTS AND HONORS:

1. 2015 to Present. Solano Land Trust Technical Advisory Committee.

2. 2001. Presidential Certificate of Appreciation for Actions Related to U.S. Army Service Participation in Cold War.

3. 1978 to Present, U.S. Environmental Protection Agency, U.S. Army Corps of Engineers, Fish and Wildlife Service, Department of Justice, state agencies, private organizations, and consulting firms. Asked to review or provide technical and policy discussion through writing, lectures, briefings, or testimony on wetlands identification, mitigation, restoration, delineation, values and impacts as is related to Section 404 of Public Law 92-500.

4. 1995-96, Member, National Research Council, the Transportation Research Board, Environmental Committee.

5. 1990-2000, Member, National Wetlands Technical Council

6. 1988-98, Technical Advisor and Member of Board of Directors for the National Association of Flood Plain and Wetland Managers

7. 1982-83, Technical Consultant, Department of Environmental Conservation, State of Alaska, on the assessment of Alaska's ability to assume Corps Section 404 responsibilities.

8. 1981-82, Graduate Faculty Member (Adjunct Professor of Biology), Louisiana State University.

9. 1980-82, Graduate Faculty Member (Adjunct Professor of Biology), University of Southern Mississippi.

10. 1980-81, Contracting Officer's Representative, U.S. Army Engineers Waterways Experiment Station.
11. 1980-81, Technical Consultant, U.S. Army Engineer District, Alaska. Waterflood Monitoring Program.

12. 1980-81, Chief Wetlands Instructor for wetlands training courses conducted throughout the U.S. by the U.S. Army Engineers Waterways Experiment Station.

13. 1980-81, Technical consultant to the Governor, State of Arkansas, on the planning, development, and implementation of a proposed State Section 404 Program.

14. 1980-81, Technical Consultant to the Governor, State of California, on the planning, development, and implementation of proposed State Section 404 Program.

15. 1979-81, Joint Corps of Engineers/Environmental Protection Agency Executive Subcommittee on determining jurisdictional boundaries for the implementation of Section 404.

16. 1979-81, Director, U.S. Army Engineer Waterways Experiment Station Arboretum.

17. 1978-81, Technical Consultant to U.S. Army Engineers Districts - Alaska, Baltimore, Jacksonville, Ft. Worth, Los Angeles, Louisville, Mobile, New Orleans, Portland, San Francisco, Sacramento, Seattle, Tulsa, Vicksburg, and Wilmington and Office, Chief of Engineers, on wetland determinations as prescribed by Section 404 of Public Law 92-500 and Section 10 of the Rivers and Harbors Act of 1899.

18. 1978-81, Principal U.S. Army Engineer, Waterways Experiment Station technical reviewer of EPA/Corps criteria and regulations on wetlands as pertaining to Section 494 of Public Law 92-500. As a result of these efforts, much of the technical portions of the Environmental Protection Agency Section 404 criteria and Corps of Engineers 404 rules and regulations pertaining to wetlands were either written by or were in concept provided by Dr. Huffman.

19. 1976-81, Member, Technical Review Board for research proposal pertaining to U.S. Army Engineers Waterways Experiment Station Research and Development Programs.

20. 1980, U.S. Army Commendation for Outstanding Job Performance in Wetlands Research.

21. 1980, U.S. Army Commendation for Sustained Superior Performance in the Development and Presentation of Wetlands Training on the Field. Identification and Delineation of Wetland Boundaries, Anchorage and Prudhoe Bay, Alaska.

22. 1979, U.S. Army Commendation for Sustained Superior Performance in Wetlands Criteria Research.

23. 1979, Certificate of Appreciation for Research Contributions to the U.S. Army Engineer Dredge Material Research Program.

24. 1979, Technical participant in Office, Chief of Engineers, workshop on problems and issues pertaining to the joint Corps of Engineers/Environmental Protection Agency wetlands definition and wetlands identification/boundary delineation procedures.

25. 1978, Technical Consultant, Office, Chief of Engineers Task Force charged with the development of environmental policies and regulations pertaining to Corps of Engineers construction activities in wetlands.

26. 1978, Technical Consultant, U.S. Army Engineers District, Mobile, on problems relating to the characterization of wetland vegetation within the Apalachicola River Basin, Florida.

27. 1978, Lecturer on wetland habitat development, U.S. Fish and Wildlife Service, Pacific Coastal Ecosystems Workshop Program.

28. 1977-78, Member, U.S. Army Engineers Waterways Experiment Station Incentive Awards Committee.

29. 1974-76, University of Arkansas Computer Services Grant.

30. 1975, National Science Foundation Research Grant.

31. 1977, U.S. Army. National Defense Medal

CONGRESSIONAL TESTIMONY:

1. Testimony provided November 22, 1991, to The Subcommittee on Environmental Protection, United States Senate Committee on Environmental & Public Works; Testimony provided to support revisions to the *Joint Federal Manual for Identifying and Delineating Jurisdictional Wetlands*, as published in the August,14, 1991 Federal Register.
2. Testimony provided December 16, 1991, to the Subcommittee on the Environment, 388 House Annex II, Washington, DC, U.S. House of Representatives, Committee on Science, Space and Technology. Testimony provided on: *Science of Wetland Definition and Delineation*.

LITIGATION INVOLVEMENT AS EXPERT WITTNESS:

1. Avoyelles Sportsmen's League, Inc. v. U.S., U.S. Civil Case No. 78-1428-A, United States District Court, Western District of Louisiana.

2. Bayou des Familles Development Corporation v. U.S. Army Corps of Engineers, U.S. Civil Case No. 79-4324, Section "E", Eastern District of Louisiana.

3. Berry, John Bruce, et al. v. F. Korbel & Brothers, Inc. Superior Court of California, County of Sonoma, Case No. SCV-240790. Decision filed December 19, 2013

4. Centex, et al., v. Stanford Ranch, Inc., U.S. Civil Case No. 83221, United States District Court, Northern District of California.

5. *Northern California River Watch v. City of Healdsburg*. United States District Court, Northern District of California.

6. Cline v. Frank Howard Allen & Co., et al., U.S. Civil Case No. 161244, Marin County Superior Court, Marin County, California.

7. CONCO Development Company v. William C. Vencill, U.S. Civil Case No. C-89-02359, United States District Court, Northern District of California.

8. County of San Mateo v. Robert Paul Wadell, Jr., Angela Kathie Bramble, As Trustees of the Wadell Family Trust, Santa Clara Superior Court Case No. 522021

9. Covington Homes, Northern California v. Stanford Ranch, Inc., U.S. Civil Case No. 83185, United States District Court, Northern District of California.

10. Environmental Defense Fund, etc. v. Greer Tidwell, U.S. Civil Case No. 91-467-CIV-5-D, United States District Court, Eastern District of North Carolina.

11. Golden Gate Audubon Society, Inc. v. U.S. Army Corps of Engineers, 700 F. Supp. 1549, 1533, (18 ELR 20992, 20994-95), United States District Court, Northern District of California.

12. Gonzalez v. Feliciano, Santa Cruz Superior Court Case No. 13000. Case settled January 19, 1996.

13. Leslie Salt Co. v. United States of America, et al., U.S. Civil Case No. 89-15244, United States District Court of Appeals for the Ninth Circuit.

14. Lewis v. Grange, et al., State Civil Case No. 150-114, California Superior Court, County of Marin.

15. Maiden Lane Neighborhood Association, et al. v. The Town of Greece et al., State Civil Case No. 7657-92, New York Supreme Court, County of Monroe.

16. National Wildlife Federation v. Laubscher, 662 F. Supp. 548, 550 (ELR 20892), United States District Court, Southern District of Texas.

17. Orange Environment, Inc., and Arthur E. Soons and Sandra Soons v. County of Orange, et al, U. S. Civil Case No. 91-8688, United States District Court, Southern District of New York.

18. Oro Loma Sanitary District v. Marathon U.S. Realties, Inc., U.S. Civil Case No. 347602, United States District Court, Northern District of California.

19. Prudential Development Company v. Stanford Ranch, Inc., U.S. Civil Case No. 83239, United States District Court, Northern District of California.

20. Sylvester, Frederic D. v. U.S. Army Corps of Engineers, Wayne J. Scholl, Patrick Kelley, Robert W. Page, John O. Marsh, Jr. and Perini Land & Development Company, U.S. District Court for the Eastern District of California, Case No. CV 88-0536-MLS, and U.S. Court of Appeals for the Ninth Circuit, Case Nos. 88-15376, 88-15477, 88-15604.

21. United States of America v. Leslie Salt Co., U.S. Civil Case No. 89-15337, United States District Court of Appeals for the Ninth Circuit.

22. United States of America, et al. v. Shell Oil Company, U.S. Civil Case No. C-89-4220, United States District Court, Northern District of California.

23. United States of America, et al. v. Charleston Properties, U.S. Civil Case No. C-87-20503 WAI, United States District Court.

24. United States of America v. J. Tollie Murff, U.S. Civil Case No. MCA-80-0223, United States District Court, Northern District of Florida.

25. United States of America v. Larry and Murray Crowe, U.S. Civil Case No. W-80-0079(R), United States District Court, Southern District of Mississippi, Western Division.

26. United States of America v. John J. Tingas, et al., U.S. Civil Case No. PCA 80-0421, United States District Court, Northern District of Florida.

27. United States of America v. Windward Properties, Inc., U.S. Civil Case No. 1:91-CV-348-RLV, United States District Court, State of Georgia.

PUBLICATIONS:

Technical Papers and Reports:

1. Anonymous Authorship. 1978. Primary production and growth dynamics of Atlantic and Gulf Coast marsh plants. U.S. Army Corps of Engineers Information Exchange Bulletin on Dredged Material Research. Vol. D-78-2. U.S. Army Engineers Waterways Experiment Station, CE, Vicksburg, Mississippi.

2. Anonymous Co-authorship. 1978. Environmental Laboratory, U.S. Army Engineer Waterways Experiment Station. Preliminary guide to wetlands of Peninsular Florida. Technical Report Y-78-2. U.S. Army Engineers Waterways Experiment Station, CE, Vicksburg, Mississippi.

3. Anonymous Co-authorship. 1978. Environmental Laboratory, U.S. Army Engineer Waterways Experiment Station. Preliminary guide to wetlands of Puerto Rico. Technical Report Y-78-3. U.S. Army Engineers Waterways Experiment Station, CE, Vicksburg, Mississippi.

4. Anonymous Co-authorship. 1978. Environmental Laboratory, U.S. Army Engineers Waterways Experiment Station. Preliminary guide to wetlands of the interior United States. Technical Report E-80 (DRAFT). U.S. Army Engineers Waterways Experiment Station, CE, Vicksburg, Mississippi.

5. Anonymous Co-authorship. 1978. Environmental Laboratory, U.S. Army Engineer Waterways Experiment Station. Preliminary guide to wetlands of the West Coast states. Technical Report Y-78-4. U.S. Army Engineer Waterways Experiment Station, CE, Vicksburg, Mississippi.

6. Anonymous Co-authorship. 1978. Environmental Laboratory. Wetlands habitat development with dredged material. Engineering and plant propagation. Technical Report D-78-16. U.S. Army Engineers Waterways Experiment Station, CE, Vicksburg, Mississippi.

7. Anonymous Co-authorship. 1987. Corps of Engineers Wetland Delineation Manual. Technical Report Y-87-1. U.S. Army Engineer Waterways Experiment Station. Vicksburg, Mississippi.

8. Brown, J.R., P.L. Kittle, R.T. Huffman, and E.E. Dale. 1975. Criteria for the identification of rare and endangered species, unique ecosystems and wetlands in the State of Arkansas. Arkansas Department of Local Services, Little Rock, Arkansas.

9. Carpenter, L.A., S.A. Rhea, J.E. Broadway, R.T. Huffman. 1994. *Comparison of the Wetland Delineation Methodology and the Technical Criteria that Would Induce Wetland Conditions*. American Society of Civil Engineers (ASCE). San Francisco, California.

10. Clairain, E.J., Jr., R.A. Cole, R.J. Diaz, A.W. Ford, R.T. Huffman, L.J. Hunt, and B.R. Wells. 1978. Habitat development field investigations, Miler Sands Marsh and upland habitat development site, Columbia River, Oregon, summary report. Technical Report D-uu-38. U.S. Army Engineer Waterways Experiment Station, CE, Vicksburg, Mississippi.

11. Dale, E.E., R.L. Meyer, T.M. Buchanan, and R.T. Huffman. 1974. *U.S. Army Corps of Engineers Environmental Evaluation on Various Completed Channel Projects in Eastern Arkansas*. Fayetteville, Arkansas.

12. Dale, E.E., G.T. Johnson, P.F. Kuroda, E.B. Whittlake, and R.T. Huffman. 1980. Wetlands forest communities of the U.S. Army Engineer District, Vicksburg. Technical Report IWD-EL-81. U.S. Army Engineers Waterways Experiment Station, CE, Vicksburg, Mississippi.

13. Deghi, G. S., R.T. Huffman, J. W. Culver. 1995. "California's Native Monterey Pine Populations: Potential for Sustainability." *Fremontia*, A journal for the California Native Plant Society, Vol. 23, No. 1, January 1995, ppg 14-23

14. Huffman, R.T. 1974. The origin of Grassy Lake. *Proceedings of the Arkansas Academy of Science*. Vol. XXVIII:32-33.

15. Huffman, R. T. 1974. The vegetation of Grassy Lake, Hempstead County, Arkansas. Masters Thesis. University of Arkansas, Fayetteville, Arkansas.

16. Huffman, R.T. 1976. The relation of flood duration patterns to dominant forest species association occurring on selected first bottom sites of the Ouachita River drainage basin in southern Arkansas. Doctoral Dissertation. University of Arkansas, Fayetteville, Arkansas.

17. Huffman, R.T., T.T. Tucker, and J.M. Wooten. 1978. Preliminary guide to wetlands of the South Atlantic States. Technical Report EL-80-7. U.S. Army Engineers Waterways Experiment Station, CE, Vicksburg, Mississippi.

18. Huffman, R.T. and G.T. Tucker. 1980. Preliminary guide to wetlands of Alaska. Technical Report EL-80-9. U.S. Army Engineers Waterways Experiment Station, CE, Vicksburg, Mississippi.

19. Huffman, R.T., G.T. Tucker, and J.M. Wooten. 1980. Preliminary guide to wetlands of the North Atlantic States. Technical Report El-80-8. U.S. Army Engineers Waterways Experiment Station, CE, Vicksburg, Mississippi.

20. Huffman, R.T. 1980. The relation of flood timing and duration to variation in bottomland hardwood community structure. Miscellaneous Paper EL-80-4. U.S. Army Engineers Waterways Station, CE, Vicksburg, Mississippi.

21. Huffman, R.T. 1981. Corps wetlands research program. *National Wetlands Newsletter*. Vol. 3, No. 3. Environmental Law Institute, Washington, D.C.

22. Huffman, R.T. 1981. Multiple-parameter approach to the field identification and delineation of aquatic and wetland ecosystems. Report #1 - Technical Standards. Technical Report EL-80-DRAFT. U.S. Army Engineers Waterways Experiment Station, CE, Vicksburg, Mississippi.

23. Huffman, R.T. and D.R. Sanders. 1981. Wetlands Manual. Part 1: technical standard for the identification and delineation of wetlands. Technical Report Y-82-DRAFT. U.S. Army Engineers Waterways Experiment Station, CE, Vicksburg, Mississippi.

24. Huffman, R.T. and Robert I. Lonard. 1983. Successional patterns on floating vegetation mats in a southwestern Arkansas bald cypress swamp. *Castanea* 48:73-78.

25. Huffman, R.T. 1984. Technical delineation of wetlands boundaries within California riparian systems. *Proceedings of the California Riparian Systems Conference*. September 17 - 19, 1981. Davis, California.

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Professional Consulting Technical Reports

1981 to Present: The following types of professional reports are prepared by Dr. Huffman on an annual basis as part of his professional wetlands regulatory consultant practice:

1. Consulting Technical Report: *Determination of the Presence of Areas Potentially Subject to Corps of Engineers Jurisdiction under Section 404 of the Clean Water Act*
2. Consulting Technical Report: *Determination of the Presence of Areas Potentially Subject to California Coastal Commission Jurisdiction under the California Coastal Act*
3. Consulting Technical Report: *Wetland Mitigation Plan Prepared in Accordance with Federal and/or Guidelines*
4. Consulting Technical Report: *Agency Required Mitigation Compliance Monitoring Reports*