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CURRICULUM VITAE

Patrick C. Garner, Wetland Scientist, Hydrologist, PLS

Areas of professional focus: Peer Review, River Analysis,
Hydrology and Wetlands

REPRESENTATIVE EXPERIENCE & PROJECTS

Wetland-Related Projects

Hundreds of wetland studies, peer reviews & delineations in New England & the Southeastern U.S. Wetland Filings in NE cities & towns since 1985, including: Andover, Arlington, Ashburn-ham, Barrington, Belmont, Billerica, Bridgewater, Boston, Boxborough, Canton, Dedham, Dover, Duxbury, E. Bridgewater, Easton, Framingham, Franklin, Halifax, Hampden, Hanover, Hanson, Harvard, Holden, Hopkinton, Grafton, Leicester, Lynnfield, Mansfield, Mendon, Middleboro, Milford, Northboro, Northbridge, N. Andover, N. Reading, Pembroke, Plainville, Plymouth, Providence, Sandwich, Sharon, Southboro, Spencer, Sudbury, Tyngsboro, Upton, W. Bridgewater, W. Boylston, Weymouth, Worcester

Hydrological Projects

FEMA Flood Plain determinations; 1, 2, 5, 10, 50 & 100-year storm precipitation analyses; EPA NPDES storm water studies for numerous marinas in MA & RI, 1993-5; Detailed analysis & morphological/flood determination of rivers/ streams throughout MA; Numerous perennial v. intermittent river determinations; Riparian rights & water movement analyzes, New England & the Southeast; Study of 23 rivers for the Franklin County Regional governments; analysis of Rosgen stream type, erosion potential, channel materials; HEC-RAS river flood calculations.

Projects of Interest

- Analysis for U.S. Corps of Engineers & EPA of 125 acre wetland site, including wetland delineation, hydrological analysis, mitigation studies & aerial mapping research of Great Cedar Swamp, Pembroke, Halifax & Hanson, MA
- Horizontal & vertical location analysis of a 15th century shipwreck for the National Parks Service, Provincetown, MA
- Beach riparian rights analysis for Coastal Zone Management (CZM), King & Prince Hotel, St. Simons Island, GA
- Mean sea level/V-zone analysis for Rockefeller family holdings on Cumberland Island, GA

- 325-acre wetland study, including delineation of over 7000 feet of BVW for a proposed golf course, Hanson, MA; similar analysis of wetlands & streams for an 18-hole golf course in Northbridge, MA, 2002
- Numerous residential, recreational, open space, commercial & industrial projects abutting or impacting wetlands and rivers, including cumulatively over 50 replication/ restoration designs since 1986
- Consultant currently for numerous Conservation Commissions; member, Harvard Conservation Commission, 1994-1997

EDUCATION

BA, GA State University, Atlanta, 1971

Undergraduate courses included biology, botany, geology, hydrology, earth science, urban planning, landscape architecture.

POST-GRADUATE STUDIES

Graduate courses, real estate & land planning, Harvard Univ. Extension School, Cambridge, MA, 1986-88

GIS & GPS Advanced Positioning Systems, Auburn University, 2002

Graduate, COE Wetland Delineator Certification Program, UNH, 1995

Field Indicators for Hydric Soils in NE; Human-Disturbed Soils, UNH, 1996

Wildlife Habitat Evaluations, Mass. Audubon Society/DEP, 1992

HEC-RAS, TR-20 & TR-55 Hydrology Seminars, SCS, NRCS, Haestad (CT, RI, MA), 1987-2003

LECTURES & INSTRUCTION

AMWS Winter Botany Workshop, 1997 (Instructor)

MACC Detention Basin Fundamentals, 1999 (Instructor)

Wetland Delineation Seminars, MA DEQE/DEP, 1985-95; 1998-2001 (Instructor)

DEP/AMWS Mean Annual High Water Workshops (Five), 2000-2001 (Instructor)

River Morphology & Functions Workshop, 2001 & 2002 (Instructor)

MACC, DEP River Regulations, 2002 (Instructor)

Guest Lecturer: UMass Lowell; Instructor--MACC & AMWS Workshops

Ethics & Conflicts of Interest, AMWS 2006 (Instructor)

Ethics & Conflicts of Interest, MACC 2007 (Instructor)

PROFESSIONAL REGISTRATION & OTHER

Wetland & Hydrologic Consultant: EPA; USCOE; MA DEP; RI DEM

1994-97 Member: Conservation Commission, Harvard, MA

Professional Land Surveyor: GA / MA / RI

MA Certified Soil Evaluator, 1996-present

Expert Witness: MA District & Superiors Courts, Land & DEP Adjudicatory Courts

Association of MA Wetland Scientists (AMWS), *President*, 1996-98

American Institute of Hydrology

AMWS Newsletter *Editor*, 1997-2000; Assistant Editor, 2000 – 2003

RI Society of Wetland Scientists (RIAWS) - *Board Member*, 1993

MA Association of Conservation Commissions (MACC) – *Board, 1996-2003; President, 2004-05*

American Congress on Surveying and Mapping, Fellow member since 1979

DEP Mean Annual High Water (MAHW) Advisory Group, 1999-2000

DEP Perennial v. Intermittent Stream Advisory Group, 1999-2002

DEP Stormwater Management Advisory Committee, 2005-2008

PUBLICATIONS

Do Wetland Professionals Have An Obligation To Be Activists? **Wetland Journal**, Maryland (Spring issue, 1996); Reviews, features, **AMWS Newsletter**, MA (1995-99); Science Issues, **National Geologic Institute**, NY (Fall/97); *A Matter of Conscience: Silence Within the Wetland Field*, **Wetland Journal**, Maryland (Fall issue, 1997); *Editorial Comments*, **Wetland Journal**, Maryland (Winter issue, 1998); *Misc. articles*, **New York Society of Wetland Scientists; MACC Newsletter** (1998); *An Analysis of Extreme Rainfall Differences*, **AMWS Newsletter**, (3/98); *WetForm: USCOE Delineation Software*, **Land & Water Magazine** (June, 1998); *Restoration Perspectives*, **MA EOE Wetland News** (Winter, 1998); *Walden Pond*, **Wetland Journal** (Spring, 1999); *Restoration & Replication Issues*, **MACC Newsletter** (Fall, 1999); *Global Climate Change & Regional Wetlands*, **AMWS Newsletter** (2001), **Garnering Afar & Afield**, **AMWS** (2002-2004); *Intensification of the Water Cycle and Its Effects on the Design of Culverts*, **AMWS Newsletter** (7/2006); Review: *Socially Responsible Engineering*, **ACSM**, (Spring 2007); *Global Climate Change Update*, **AMWS Newsletter** (Spring 2007)