

Subcommittee on Water, Wildlife and Fisheries
Thursday, January 18, 2024

Name: Christopher H. Pickerell

Name of Organization(s) You are Representing at the Hearing: Cornell Cooperative Extension of Suffolk County

Business Address: [REDACTED]

Business Email Address: [REDACTED]

Business Phone Number: [REDACTED]

1. Please attach/include current curriculum vitae or resume.

Abridged CV

CHRISTOPHER H. PICKERELL

Cornell Cooperative Extension of Suffolk County

Marine Program
[REDACTED]
[REDACTED]

Professional Preparation:

Rochester Institute of Technology, B.S., 1989

Cornell University, M.S., 1993

Appointments:

2013 - present Marine Program Director/Habitat Restoration Specialist Cornell Cooperative Extension, Suffolk County, Marine Program

1993 - 2013 Habitat Restoration Specialist & Eelgrass Program Manager, CCE Marine Program

2018 - 2021 Suffolk County Marine Industry Revitalization Council (Appointed by Legislature)

2018 - present New York State Ocean Acidification Taskforce (Appointed by State Senator)

2017 - present Co-Chair/New York Shellfish Restoration Council (Appointed by Governor)

1992 - 1993 Graduate Research Assistant, Cornell University

1991 - 1992 Graduate Teaching Assistant, Cornell University

Recent Work:

- The Long Island Shellfish Restoration Project (\$5,250,000 – NYSDEC/Governor’s initiative) 2018-2022. Overall project design and management. This project involves producing over 150 million shellfish for seeding in Long Island waters through hatchery expansion, nursery grow out and public engagement.
- The Shinnecock Indian Nation Shoreline Restoration Project (\$3,750,000 – NFWF, Sandy Relief Grant) 2015- 2018. Overall project design and management. This project is the largest of its kind on Long Island and includes all aspects of coastal habitat restoration including beach nourishment, dune creation and planting, salt marsh planting, eelgrass planting, and oyster reef creation along 3,000 linear feet of shoreline.
- The NY/CT Long Island Sound Eelgrass Restoration Project (\$149,566 - NFWF, LISS, NOAA, EPA) 2011-2013
- Development and application of a Long Island Sound GIS-based eelgrass habitat suitability index model (\$110,000 – NEIWPC) 2010-2012
- Suffolk County Eelgrass Restoration Initiative (\$315,000 - Suffolk County) 2009-2011

- The Eastern Long Island Sound Eelgrass Restoration Project (\$75,000 - NFWF, LISS, NOAA, EPA, Shell Oil) 2008-2010
 - Developed a series of new eelgrass restoration methods for use in high energy sites (high currents and wave energy) along the north shore of Long Island as well as throughout New England. These methods have enabled the Cornell Cooperative Extension (CCE) Eelgrass Restoration Program to be one of the most successful programs in the nation. Based on this success, I have been asked to advise on projects throughout the United States and in Europe.
 - Currently oversee a staff of 85 plus biologists and professionals working on all types of marine and coastal related work from Aquaculture to Youth Education operating out of 6+ locations spread throughout Suffolk County.

Awards:

- Pearl of a Person Award (Person of the Year), Long Island Oyster Growers Assoc., 2021
- North Fork Environmental Council, Environmentalist of the year, 2010
- Cornell University Outstanding Teaching Assistant Award, 1992
- Donald Sherwood Memorial Science Award, 1985

Publications:

van Katwijk et al. (2016) van Katwijk MM, Thorhaug A, Marbà N, Orth RJ, Duarte CM, Kendrick GA, Althuizen IHJ, Balestri E, Bernard G, Cambridge ML, Cunha A, Durance C, Giesen W, Han Q, Hosokawa S, Kiswara W, Komatsu T, Lardicci C, Lee K-S, Meinesz A, Nakaoka M, O'Brien KR, Paling EI, Pickerell C, Ransijn AMA, Verduin JJ. Global analysis of seagrass restoration: the importance of large-scale planting. *Journal of Applied Ecology*. 2016; 53:567–578. doi: 10.1111/1365-2664.12562.

Lopez et al. (2013) Lopez G, Carey D, Carlton JT, Cerrato R, Dam H, DiGiovanni R, Elphick C, Frisk M, Gobler C, Hice L, Howell P, Jordaan A, Lin S, Liu S, Lonsdale D, Orson R, Petersen B, Pickerell C, Rozsa R, Shumway SE, Siuda A, Streich K, Talmage S, Talyor G, Thomas E, Van Pattan M, Vaudrey J, Yarish C, Wikfors G and Zajac R. Biology and Ecology of Long Island Sound in: *Long Island Sound: Prospects for the Urban Sea*, Latimer JS, Tadesco MA, Swanson RL, Yarish C, Stacey PE & Garze C. editors, Springer Series on Environmental Management, New York Heidelberg Dordrecht London. 576 pp.

Cunha A H, N. Marbá, M. van Katwijk, C. Pickerell, M. Henriques, G. Bernard, A. Ferreira, S. Garcia, JM. Garmendia, P. Manent, P. 2012. Changing paradigms in seagrass restoration: conclusions and recommendations from the European Seagrass Restoration Workshop. *Restoration Ecology* **20**:427-430

Pickerell, C.H., S. Schott, and K. Petersen, 2007. Eelgrass establishment at a high energy site: A case study along Long Island's North Shore. *Estuarine Research Federation*, November 4-8, 2007, Providence, RI.

Pickerell, C.H., S. Schott, and S. Wyllie-Echeverria. 2006. Buoy deployed seeding: A new low-cost technique for restoration of submerged aquatic vegetation from seed. *United States Army Corp of Engineers, ERDC/TN SAV-06-2*. April 2006. <http://el.erdc.usace.army.mil/elpubs/pdf/sav06-2.pdf>

Pickerell, C.H., S. Schott, and S. Wyllie-Echeverria. 2005. Buoy deployed seeding: Demonstration of a new eelgrass (*Zostera marina* L.) planting method. *Ecological Engineering* **25**:127-136

Enhancement of damaged seagrass habitat: A case study in the potential of Buoy Deployed Seeding. J. Leach, C. Fairbanks, S. Wyllie-Echeverria and C. Pickerell. Pacific Estuarine Research Society, 29th Annual Meeting, February 16-19, 2006, Friday Harbor Labs, University of Washington, Friday Harbor, WA.

2. Please list any federal grants or contracts (including subgrants or subcontracts) related to the subject matter of the hearing that were received in the current year and previous two calendar years by you or the

organization(s) you represent at this hearing, including the source and amount of each grant or contract.

Highlighted projects indicate funding provided through or in association with the Long Island Sound Study which is the subject of the hearing.

Federal Grantor/ Pass-Through Grantor/ Program Title	Contract Number	Federal CFDA Number	Award Term	Program or Award Amount
<u>US ENVIRONMENTAL PROTECTION AGENCY</u>	-			
Received indirectly from National Fish and Wildlife				
Derelict Lobster Gear Removal	1401.22.073421	66.437	10/01/21-04/01/23	115,840.78
LI Sound Floating Litter Traps	1401.22.073383	66.437	01/01/22-12/31/22	81,341.29
Northport Harbor Living Shoreline and Ribbed Mussel	1401.22.073513	66.437	10/15/21-10/13/2024	249,050.00
<u>US ENVIRONMENTAL PROTECTION AGENCY</u>	-			
Received indirectly from Friends of The Bay, Inc.				
Expanding Oyster Spawning	00A01075	66.437	12-03/2021- 09/03/2023	8,466.00
<u>US ENVIRONMENTAL PROTECTION AGENCY</u>	-			
Received indirectly from Research Foundation for the State University of New York				
Peconic Estuary Partnership RFSUNYSB	96247000	66.456	11/1/2023-9/30/2025	23,941.66
<u>DEPARTMENT of COMMERCE/ NOAA</u>	-			
NY Fleet Wide Electronic Vessel Trip	NA20NMF4720314	11.472	12/1/20-5/01/22	98,087.21
Implementing Bycatch Avoidance	NA15NMF4540400	11.454	12/1/19-5/31/21	57,621.00
Assessing and Removing Lobster Gear	NA18NOS4820181	11.482	9/1/19-12/31/21	133,645.00
Reducing Discard Mortality	NA15NMF4540400	11.454	1/1/20-06/30/21	78,797.00
Increasing Local Seafood Consumption	NA21NMF4270326	11.427	9/01/21-08/31/23	63,668.00
Conservation Gear Technology	NA21NMF4270328	11.427	9/01/21-02/28/23	249,246.00
Assessment of an Alternate Frequency Pinger to Mitigate	NA21NMF4270329	11.427	9/01/21-03/01/23	206,279.00
Turtle Excluder Devices Outreach Prog	NA22NMF4720304	11.472	12/01/22-02/29/24	75,151.00
Increase Monkfish Domestic Demand	NA22NMF4270124	11.427	9/1/2023-08/31/25	42,408.00
Local Seafood Consumption	NA23NMF4270246	11.427	09/01/23-08/31/25	146,376.00
Monkfish Management Needs	NA23NMF4540354	11.454	08/01/23-4/30/26	179,103.00
<u>DEPARTMENT of COMMERCE/ NOAA</u>	-			

Received indirectly from Cornell University				
Sea Grant	NA21OAR4170330	11.417	8/1/2021-7/31/22	52,835.00
<u>DEPARTMENT of COMMERCE/ NOAA</u>	-			
Received indirectly from SUNY StonyBrook				
Bivalve Larvae NYS Sea Grant Project	NA22OAR4170096	11.417	05/01/22-01/31/23	30,761.00
<u>DEPARTMENT of COMMERCE/ NOAA</u>	-			
Received indirectly from Maritime Aquarium				
LI Sound Lobster Pot Removal	NA22NMF4690292	11.417	10/22/22-09/30/23	11,040.00
<u>US DEPARTMENT OF INTERIOR</u>				
Received indirectly from National Fish and Wildlife				
Marine Meadows Eelgrass Restoration	D13AC00001	15.153	3/01/21-3/30/23	293,121.83

3. Please list any contracts or payments originating with a foreign government related to the subject matter of the hearing that were received in the current year and previous two calendar years by you or the organization(s) you represent at this hearing, including the amount and country of origin of each contract or payment.

NONE

4. Please disclose whether you are a fiduciary (including, but not limited to, a director, officer, advisor, or resident agent) of any organization or entity that has an interest in the subject matter of the hearing.

NO

5. Please list any current or pending litigation against the Federal government to which you or your organization is a party. Please disclose as applicable case name, docket number, the court, and subject matter of the litigation.

NONE