MATTHEW FITZPATRICK
CR Environmental, Inc., June 2018 to present
Year with Other Firms: 17
Citizenship: U.S.A.

SENIOR BIOLOGIST/ HYDROGRAPHER
GIS MAPPING/NAVIGATOR
FIELD MANAGER
DATABASE DESIGNER

AREAS OF SPECIALIZATION

- Field Study Design
- Hydrography
- Electronics Trouble Shooting
- Water and Sediment Sampling/Vibracoring

Data Analysis/Graphics Preparation
Technical Writing
Nearshore Mooring Deployment

EDUCATION

B.S. Biology with an option in Marine Biology University of Massachusetts at Dartmouth

Computer Skills: MS Office, MatLab, Surfer, Oracle (SQL+, SQL Developer, and SQL Server), rapidly learns new software.

Relevant Training

- OSHA 40-hour Hazwoper
- 30-hour Hazwoper Construction
- 10-hour Hazwoper Site Supervisor
- CPR/AED/First Aid
- Helicopter Underwater Egress Training (HUET)

WORK HISTORY & RELEVANT PROJECT EXPERIENCE

CR Environmental, Inc. Senior Biologist/Field Manager 18 June 2018-present

- Hydrographer - New Bedford Harbor Superfund Site Bathymetric Progress Surveys
- Navigator - Boston Harbor Eversource HEEC Cable sediment profile image (SPI) camera work
- Field Manager/Semior Biologist - Massachusetts Water Resources Authority Mass Bay Outfall
- Senior Biologist-Vibracoring -Hastings on Hudson, New London State Pier, Thames River

Battelle Research Scientist 2001-15 June 2018

Field Manager 2013-15 June 2018

- Responsible for establishing budgets for client funded field studies
  - Planned and executed studies for clients including: Massachusetts Water Resources Authority, EPA, Navy, Army Corp of Engineers, and industrial clients
  - Prepared and distributed project documents such as Standard Operating Procedures (SOPs), field sampling plans, field reports, health and safety plans, and assisted with quality assurance plans
- Worked directly with clients, subcontractors, and project managers to establish field schedules, then organized staff and equipment to complete the study.

Chief Scientist 2008-Present

- Supervised field collection methods to ensure procedures followed written SOPs and client approved field sampling plans. Field studies include:
  - Approximately 200 days on the water for water quality monitoring in coastal and offshore environments using CTDs, multiparameter sondes, and Acoustic Doppler Current Profilers (ADCPs).
  - Approximately 250 days on the water of inland harbor and river coring

639 Boxberry Hill Road, East Falmouth, MA 02536 Phone/Fax 508 563-7970 matt@crenvironmental.com

Chief Scientist (cont.)

- Approximately 75 days on the water of sediment grab sampling in rivers, harbors, and offshore environments.
- Approximately 50 days on the water collecting and identifying fish for population studies and tissue analysis.

- Designed a method to deploy passive samplers into soft sediments, and worked closely with a machine shop to fabricate the materials necessary for the study.
- Responsible for the inventory and maintenance of electronic and mechanical field equipment.
- Establish mobilization lists for field surveys and ensure equipment and materials have been procured well in advance of the planned survey date.
- Responsible for working with Battelle's health and safety staff to establish a maintenance schedule for the company boats and trucks.

Database Manager **2005-2010**

- Responsible for working with the laboratories to ensure timely delivery of nutrient and plankton abundance data for the New York Outfall project in Jamaica Bay.
- Prepare survey specific MS Access based loading applications for the laboratories. The loading applications contained built in upstream data checkers to help prevent data entry errors.
- Process and clean *in situ* CTD data and long-term mooring data using various data reduction methods so the data could be loaded into an Oracle database.
- Load CTD, nutrient, benthic abundance, and plankton data into an Oracle database so that standardized reports could be used in survey reports and for quality assurance review.

Database Technician **2003-Present**

- Generated code in MatLab and Surfer to generate presentation quality graphics from large multi-year data sets. The figures are included in annual reports and presentations. The graphics include traditional range and line plots over time as well as detailed contour plots.
- Generated code in MatLab that creates wind vector and current vector plots.
- Processed ADCP backscatter data that was collected during dredge plume tracking surveys.
- Responsible for rapid turnaround of cleaned high resolution CTD data during *Alexandrium* blooms.

Field Technician **2001-Present**

- Capable of small boat handling for scientific research- navigation using a gps, three point anchoring, conducting fish trawls, and driving transect for various surveys.
- Basic laboratory skills include: dissolved oxygen titration, solution preparation, nutrient filtration.
- Designed and installed peizometers for porewater collection.
- Collected and identified fish for tissue analysis.

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PUBLICATIONS

Dragos, P.M., M. Mickelson, C. Albro, and M. Fitzpatrick. 2006. Cost-Benefit Analysis of Alternative Ocean Observing Platforms for Coastal Water Quality Monitoring. In Proceedings of the MTS/IEEE Oceans 2006 Conference, September 2006.

Dragos, P.M. and M. Fitzpatrick. 2004. Fall 1999 and Spring 2002 Physical Oceanography Data Report. Prepared by Battelle for the U.S. Army Corps of Engineers, New England District, Concord, MA under Contract No. DACW33-01-D-0004, Delivery Order No. 02. 80pp.

Dragos, P.M. and M. Fitzpatrick. 2004. Analysis of Dredged Material Transport Potential at Two Disposal Alternatives in Rhode Island Sound. Prepared under Contract No. DACW33-01-D-0004, Delivery Order No. 2 by Battelle for the U.S. Army Corps of Engineers. April 2004.

Dragos, P.M., D.M. Michelin, M.R. Fitzpatrick, J.M. Côté, J.D. Wood, H. Ruthven III, S.W. Kelley. 2003. Analysis of Sediment Transport Potential at Four Dredged Material Disposal Alternatives in Long Island Sound, Long Island Sound Dredged Material Disposal Site Designation Environmental Impact Statement. Prepared for U.S. Army Corps of Engineers. 88pp.