Figure S1: Schematics of the <u>M</u>obile <u>S</u>ampling, <u>S</u>ensing, and <u>H</u>yperspectral <u>I</u>maging Platform (MSSHIP).

GPS

Hyperspectral Camera

Two Batteries (24V)

Electronic Control Box
(Minimum 2 hours operating)

Trolling Motors

Water Sampling Module
(Actuator & Pump)

**Pontoon Boat
(Maximum capacity: 2000 lb)**