Materials List for:

## Methods for Image-based Surveys of Benthic Macroinvertebrates and Their Habitat Exemplified by the Drop Camera Survey for the Atlantic Sea Scallop

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## **Materials**

Name	Company	Catalog Number	Comments
Bobcat, 43.3mm, F-Mount, 6600x4400, 1.9/2.4 fps, Color, GigE Vision	Imperx	PoE-B6620C-TF00	Digital Still Camera
Ace - EV76C560, 1/1.8", C-Mount, 1280x1024, 60fps, Color, CMOS, GigE	Basler	acA1300-60g	HD video camera
Stock MV 40-25 Housing. Black Anodized Aluminum, 5.3" standard dome port, DBCR2008M connector	Sexton	MV 40-25	Underwater housing for digital still camera
Stock MV 25-25 Housing. Black Anodized Aluminum, 3.4" standard dome port, DBCR2008M connector	Sexton	MV 25-25	Underwater housing for HD video camera
Optical Slip Ring	MOOG	180-2714-00	Transmission of power and electrical signals to rotating cable on winch
Fiber Optic Cable	Cortland	OCG0010	Transmission of power and electrical signals from junction box to vessel deck/wheelhouse
Wheelhouse Run	Electromechanica	EM0117-02	Segment of fiber optic wire adapted to plug into optical slip ring on one end and light power and computer on the other
Underwater Junction Box	Electromechanica	EM0117-01	Connection of power and electrical signals from camera and lights to hybrid cable
Camera Cable	SubConn	DIL8F/LS2000/10FT/LS2000/ DIL8M	Transmission of power and electrical signals from camera to junction box
Light Cable	SEACON	HRN-S0484	Transmission of power and electrical signals from lights to junction box
Desktop Computer	Various	Custom	Windows based operating system with fiber optic interface
Hydraulic Winch	Diversified Marine	Custom	Tension sensitive winch for deployment and retrieval of fiber optic cable
Steel Pyramid	Blue Fleet Welding	Custom	Apparatus for deploying cameras and lights
Steel Davit	Blue Fleet Welding	Custom	Suspends fiber optic cable over the side of the vessel

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Fiberglass sheave in metal housing	Diversified Marine	Custom	Attaches to davit, guides fiber optic cable over the side of the vessel and into the water
Sealight Sphere 6500, Day Light White, Flood	DeepSea Power & Light	712-045-201-0A-01	Underwater LED light
GPSMAP 78	Garmin	01-00864-00	Global Positioing System device
ArcPad 10.2	ESRI	N/A	Mobile field mapping program
Undersea Vision Acquisition System	Electromechanica	UVAS	Field data collection program
Digitzer	University of Massachusetts, Dartmouth	N/A	Lab data collection program
FishAnnotator	Cvision Consulting	0.3.0	Image annotator program
ArcMap 10.4	ESRI	N/A	Mapping software