**Sikuliaq Fall 2023 Cruise**

*eDNA filtering - Subsurface, 30 m, and bottom (only modify mid-depth for sites >100 m)*

*25-30 dive targets, 3 niskins per dive, 1 filter per niskin (200 samples in total)*

*Negative Control = START, 50, 100, 150, END*

*Sample Numbers = E1927-E2127*

*PPS Units - 24 samples, 2 units (plus two negative controls)*

*Stevezy = E1877.NC, E1878-E1901*

*Ned = E1902.NC, E1903-E1926*

**Materials**

General:

Toolkit Essentials: hose clamps, electrical tap, work gloves, eye bolts, head lamp, wrenches (3), pliers, and a screwdriver

Gloves (2 L boxes)

Table bench cloth

Safety goggles (1)

Zip ties (small/large)

String

Bungees

Writing utensils and labels/labeling supplies (in plastic bag)

Forceps/tweezers

Razor blade

Kim wipes (2 boxes)

Aluminum foil (1 box)

Alaska/Arctic Notebook

Paper towels (2 rolls) - Need 1 more

Tupperware Storage Boxes

Ziplock bags (Box of 60)

Rite-N-Rain Paper

Clipboard

Trash bags

Lab coat

Steel-toed boots

Float coat

Sterilization:

Buckets (3)

Bleach (1 gallon)

Sterilized RO carboy (sterilized)

Bottle for RO water (sterilized)

Bottle for ethanol (sterilized)

Bottle for bleach

eDNA Filtering:

Peristaltic pump

Pump accessory bag (charger, etc.)

218 sterivex filters (15 boxes)

500 end caps(5 boxes)

Whirlpacks (Quantity: 230)

1 L brown Nalgene bottles (Quantity: 45)

1 L brown Nalgenes bottles filled with RO (Quantity: 5)

Tubing (Quantity: 40)

95% molecular grade ethanol (1, 500 ml bottles)

95% molecular grade ethanol (12 x 50 mL falcon tubes)

95-96% ethanol for collaborator (4 L)

P1000 and tips(5.5 boxes)

Female luer to ¼” barb connector (50)

Syringes (2 bags 60 mL)

Parafilm

Caulking gun (backup if pump fails)

50 mL falcon tubes (25)

Tube rack

Graduated cylinder

PPS Unit

Batteries (70)

Instruction Manual

Tool kit + Extra Connection Cable

Communications Cable

Replacement tubing and manifolds

Filters

Sterilized priming tubing

Deer fencing for two units

Sterilized container for 12% EtOH

Packing for way home:

Coolers/techni ice for sample storage