

The diagram illustrates the experimental design for four groups: Tide Pool 1 (S1), Tide Pool 2 (S2), Nearshore (N), and Field Blank. Each group has three replicates. The flow of samples is as follows:

- Tide Pool 1 (S1):** Three replicates. Each replicate has a sample stored in 100% ethanol and a sample stored in -80°C freezer. All six samples are analyzed by DNA extraction, PCR, and sequencing.
- Tide Pool 2 (S2):** Three replicates. Each replicate has a sample stored in 100% ethanol and a sample stored in -80°C freezer. All six samples are analyzed by DNA extraction, PCR, and sequencing.
- Nearshore (N):** Three replicates. Each replicate has a sample stored in -80°C freezer. All three samples are analyzed by DNA extraction, PCR, and sequencing.
- Field Blank:** One sample stored in -80°C freezer. This sample is analyzed by DNA extraction, PCR, and sequencing.