

R/V Ferrel  
Lauren Tom and Krystle Chavarria

1. Arrived at sampling station (10:00)
2. Sampling begins (11:30)
3. Lauren=DNA, RNA, Krystle=AODC, Stable Isotope, VOA Analysis, Nutrient Chemistry, Culturing, PLFA, Uncontaminated plume depth water, Glycerol Stocks, BOD
4. Sampling Nomenclature
  - SW-YYYYMMDD-VesselMission#-SampleID  
BP-TransectNumber##-SamplingSite##

**First station**

43 miles SW of wellhead. Very weak fluorescence signal. Samples taken below, in, and above peak and DO dip.

SW-20100804-FER5-xx  
BP-TN09-SS01

1. First sample:  
SW-20100804-FER5-03 (1200m)  
BP-TN09-SS01
  - AODC, DNA (4L), RNA (4L), Stable Isotope, VOA Analysis, and Nutrient Chemistry, BOD, PLFA (Sterivex 600mL + MoBio Filter 1.4L)
2. Second sample:  
SW-20100804-FER5-06 (1150m)  
BP-TN09-SS01
  - AODC, DNA (4L), RNA (4L), Stable Isotope, VOA Analysis, and Nutrient Chemistry, BOD, PLFA (Sterivex 600mL + MoBio Filter 1.4L), uncontaminated plume depth water (3L), glycerol stocks (3-2mL)
3. Third sample:  
SW-20100804-FER5-09 (1100m)  
BP-TN09-SS01
  - AODC, DNA (4L), RNA (4L), Stable Isotope, VOA Analysis, and Nutrient Chemistry, BOD, PLFA (Sterivex 600mL + MoBio Filter 1.4L)

## Second station

46 miles SW of wellhead. No fluorescence signal. Samples taken below, in, and above peak. Original cast of CTD had to be repeated because Niskin bottles were not closed properly before launching.

SW-20100804-FER5-xx  
BP-TN09-SS02

1. First sample:  
SW-20100804-FER5-11 (1200m)  
BP-TN09-SS02
  - AODC, DNA (4L), RNA (4L), Stable Isotope, VOA Analysis, and Nutrient Chemistry, BOD, PLFA (Sterivex 600mL + MoBio Filter 1.4L)
2. Second sample:  
SW-20100804-FER5-16 (1150m)  
BP-TN09-SS02
  - AODC, DNA (4L), RNA (4L), Stable Isotope, VOA Analysis, and Nutrient Chemistry, BOD, PLFA (Sterivex 600mL + MoBio Filter 1.4L)
3. Third sample:  
SW-20100804-FER5-19 (1100m)  
BP-TN09-SS02
  - AODC, DNA (4L), RNA (4L), Stable Isotope, VOA Analysis, and Nutrient Chemistry, BOD, PLFA (Sterivex 600mL + MoBio Filter 1.4L)
4. Discovered that the filter for the RO water filter was clogged. Speculated by chief scientist to be due to rust in the holding tank source. Ordered new filters through Shaw and expect to receive them the next time we port.
5. Decontamination method before RO filter clogged:
  - a. 1% Alconox + sink water
  - b. Shake bottle
  - c. Rinse with sink water until suds disappear
  - d. Rinse with RO water
  - e. Rinse with DI water
  - f. Final rinse with sterile DI water