

## Deep Water Horizon (DWH) Surface Water Data Evaluation

Although water samples are being tested for many analytes, the analytes below were selected as the best indicators for human health. These 12 analytes come from the group of chemical compounds known as polycyclic aromatic hydrocarbons (PAH). As a pollutant, they are of concern because some compounds have been identified as carcinogenic, mutagenic, and teratogenic. The EPA has classified seven of these 12 PAH compounds as probable human carcinogens: benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[k]fluoranthene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene.

### List of PAH Analytes Examined

Pollutant Name
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(k)fluoranthene
Chrysene
Dibenzo(a,h)anthracene
Fluoranthene
Fluorene
Indeno (1,2,3-cd) pyrene
Naphthalene
Pyrene

### Evaluation of all currently available DWH data.

Overall Summary*	Value*
Begin Date	5/2/2010
End Date	9/12/2010
# of General Locations Evaluated	8
# of Stations Sampled	262
# of Sampling Events ^	563
# of Sampling Events with Oil, Sheen or Tarballs Noted	12
# of Individual PAH Analytes Examined	12
# of Individual PAH Analyte Analyses+	12,512
# of PAH Analyses Reported as "Detected" (qualified results $\Delta$ )	17
# of PAH Analyses Reported as "Detected" (unqualified results $\Delta$ )	20

\* Source: Mobile DWH Reporting Database Subscription 10/18/2010 p.m.

^ Each sampling event may include surface, mid and/or bottom depth water samples.

$\Delta$  Qualified detected analyses were reported as an "estimated value". The value was less than the lab reporting level but greater than the method detection limit (mdl). Unqualified detected analyses are quantified values that were greater than the laboratory reporting level. The most recent detected result was collected on 9/12/2010.

+ Includes "Field Duplicate" quality control sample results

