Transitional and Coastal WFD Monitoring Programme

- 43/110 monitored coastal water bodies
- 80/194 monitored transitional water bodies
- Cover around 40% by number or 30% area

- 92 Operational water bodies (blue)
  - E.g. areas at risk of failing objectives
- 31 Surveillance water bodies (orange)
  - E.g. areas for assessing long term trends

- Selection of water bodies to allow extrapolation of status to all areas based on common pressures and typology

- BQEs sampled on a 6-year cycle
- Supporting physico-chemical data on 3-year cycle
- Chemistry on a 6-year cycle

Sources: Esri, GEBCO, NOAA, National Geographic, DeLorme, HERE, Geonames.org, and other contributors
Physico-chemical and Phytoplankton

- Sampling during winter (January-March) and summer (May-September)
- Nutrients
  - salinity, temp, oxygen, pH, turbidity, colour, suspended solids
- Phytoplankton abundance and composition
- Sampling programme coordinated with MI SWD programme to ensure efficiency
- Data also used for other purposes
  - OSPAR Convention. Coordinated Environmental Monitoring Programme (CEMP)
Opportunistic Macroalgae - 2017

• Indicators of nutrient enrichment
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Intertidal Seagrass Sampling – 2017
• Protected habitat, sensitive to disturbance and eutrophication
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Rocky Shore Seaweeds (RSL) – 2017

• Biodiversity assessment- shifts in species composition used an indicator of pressure
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Other WFD monitoring

- MI Winter environmental surveys
  - Cover large open sea areas to assess background winter nutrient levels
  - Supplement the other assessments
  - Validate the extrapolation

- MI undertake Benthic Invertebrate sampling in transitional and coastal waters

- IFI - fish monitoring in transitional waters

- NPWS - lagoon monitoring in conjunction with EPA

- Saltmarsh monitoring planned for 2017/2018 via another NPWS/EPA project
WFD status for monitored water bodies 2010-2015

Monitored Transitional waters 2010-2015

- High: 15
- Good: 39
- Moderate: 12
- Poor: 10
- Bad: 4

Monitored Coastal waters 2010-2015

- High: 10
- Good: 8
- Moderate: 2
- Poor: 23
- Bad: 2

Sources: ESRI, GEBCO, NOAA, National Geographic, DeLorme, HERE, Geonames.org, and other contributors
WFD status for all surface waters 2010-2015
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River status based on Q values only; Lake status for monitored lakes only; TRAC status for extrapolated status