Iceland Implementation Plan / 2004

Atmospheric
Temporal trend monitoring of trace metals and POPs.

Parameters	Frequency	Location/Comments
Air/ Cd, Cu, Zn, Pb, Cr, Ni, Al, As, Mn, Hg, Fe, V, Cl, NO_3, SO_4 HCHs, DDTs, PCBs, HCB, Chlordans, Dieldrin,	24 samplings /year	Vestmanna islands
Precipitation/ Na, K, Mg, Ca, Cr, Cu, Zn, As, Cd, Pb, Ni, Br, F, Fe, V, Al, Mn, Cl, NO_3, SO_4, NH_4, pH, conductivity HCHs, DDTs, PCBs, HCB, Chlordans, Dieldrin	48 samplings/year 24 samplings/year	Vestmanna islands Vestmanna islands / Reykjavik

New project was initiated in January 2004 with automatic monitoring Hg in air.
A background station for automatic ozone monitoring starts in spring 2004

Marine Biota AMAP/OSPAR
Temporal trends and spatial variation of heavy metals and POPs.

Parameters	Frequency	Location/Comments
Blue mussel/ Dw and fat Hg, Cd, Cu, Pb, Zn, Se, As 10 PCBs, α and γ HCH, HCB, DDT, DDE and DDD	yearly	11 sampling areas
Cod/ Dw and fat Flesh: Hg Liver: Cd, Cu, Pb, Zn, Se, As 10 PCBs, α and γ HCH, HCB, DDT, DDE and DDD	yearly	4 sampling areas

Marine Biota
Radioactivity

Parameters	Frequency	Location/Comments
Cs-137 in seawater	yearly	15 samples /year
Cs-137 in Seaweed (Ascophyllum nodosum)	yearly	6 samples /year
Cs-137 in fish	yearly	15-20 samples /year

Marine Biota
Biological effect monitoring

Parameters	Frequency	Location/Comments
Nucella lapillus/ TBT biological effect monitoring	In 2003 and every 5 year	31 sampling sites in 2003

Freshwater
Temporal trends in rivers in southern part of Iceland

Parameters	Frequency	Location/Comments
Flow, suspended material, pH, alkalinity, POC, DOC, Na, K, Ca, Mg, Si, Cl, SO_4, NO_3, NO_2, NH_4, PO_4, N_{total}, P_{total}, Al, F, Fe, Mn, Sr, Ti, As, Ba, Cd, Co, Cr, Ni, Cu, Zn, Mo, Hg, Pb.	6- 7 sampes /year	Two rivers; Þjórsá and Ölfusá

Integrated watershed monitoring site Litla-Skard

Parameters	Frequency	Location/Comments
Precipitation: Conductivity, pH,Na, K, Ca, Mg, S, NH_4, Cl, NO_3	monthly	12 samples /year
Groundwater: Conductivity, pH,Na, K, Ca, Mg, S (?), Al(total), Mn, Fe, NO_3	monthly	12 samples /year
Discharge: Conductivity, pH,Na, K, Ca, Mg, S, Al(total), Cl, NO_3, NH_4, PO_4, Alkalinity.	monthly	12 samples /year

Human Health monitoring programme.
Blood samples from expectant mothers was collected in 2003 and analysed for various persistent organic pollutants. Data on age, seafood and seabird consumption, life style factors, fertility and birth weight and birth length were also collected. Data processing and management will continue in 2004.