

# Eu/Tacis

## First Regional Workshop for the Project “Caspian Water Quality Monitoring and Action Plan for Areas of Pollution Concern”



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Ashgabat, Turkmenistan  
4-6 February, 2008

Parvin Farshchi  
I.R.Iran



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# Organizations/Institutions

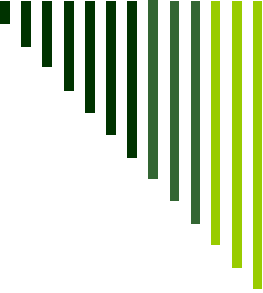
- Ministry of Energy
  - Ministry of Health
  - Meteorological Organization
  - Fisheries Organization
  - Ports and Shipping Organization
  - Iranian National Centre for Oceanography
  - Department of the Environment
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# Main Laboratories

- Food and Drug Control Laboratory
  - Iranian Oil Company Laboratory
  - Iranian Atomic Energy Organization
  - Water Section of the Ministry of Energy
  - Number of Universities and Research Centres
  - Central Laboratory of DOE
  - Laboratories of the DoE in Caspian Coastal Provinces
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- None of the Laboratories are responsible for Routine Monitoring of Contaminants and are mostly project oriented
  - By Law: DoE is responsible for the ambient and compliance monitoring of pollution and pollution control
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# Central laboratory of DOE

- Analytical Laboratory Water and Waste water
  - Petroleum Hydrocarbons & Pesticides
  - Heavy Metals
  - Air Pollution
  - Biological & Microbiological
  - Biodiversity
  - Genetic
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# Laboratories

- Provincial DoE Offices have at least one Central Laboratory
- However, the focus is more on heavy metals, Chlorinated hydrocarbons and Pesticides
- DoE participates at ROPME / IAEA Inter-calibration Exercises but does not cover all contaminants

# Laboratories Involved in Eco-toxicity and Biomarker Techniques Application in Contaminant Monitoring and Assessment

- Department of Environment
- Research Institute of Petroleum Industry
- National Iranian Oil Company
- Food and Drug Control Laboratories
- Fisheries Research Institute



# Overall Evaluation

- Laboratories are in possession of good infrastructure for different contaminants, specially for organic and inorganic substances
- Availability of Expertise;
- Not routine monitoring of contaminants and mostly project oriented;
- QA/QC needs improvement;



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## The Areas of Current Focus:

- Biota as another media for sampling and analysis of targeted contaminants and eco-toxicological studies
  - Recreational water monitoring to include Microbial Pollution and Eutrophication
  - Assessment of Interrelationship between Pollution and Human Health
  - Monitoring of Harmful/ any Algal Bloom
  - Inter-linkage between National Plans and the LBA Protocol
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# Overall Evaluation

- Undertake Inter-calibration Exercises for certain contaminants;
- Systematic contaminant monitoring in terms of POPs and PTS has started ;
- POPs Enabling Activity is getting completed and the Preliminary National Implementation Plan (NIP) is prepared.



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# The Areas of Current Focus:

- ❑ Determination of flux of major contaminants in rivers
  - ❑ Land based assessment of rivers watershed
  - ❑ Monitoring of Invasive species
  - ❑ Risk Assessment
  - ❑ Improvement of QA/QC and Inter-calibration Exercise
  - ❑ Development of Regional Standards for selected Pollutants
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