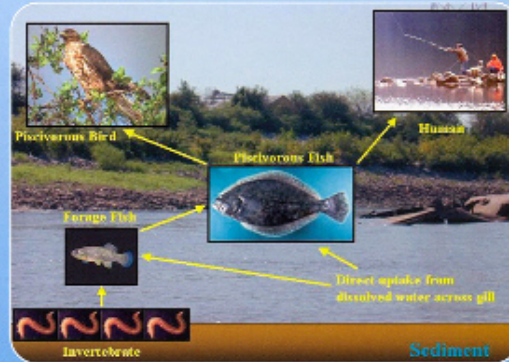




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Report of WG 10 – 2006



*Environmental risk assessment
of dredging and disposal operations*

*“Navigation, Ports, Waterways”
“Navigation, Ports, Voies Navigables”*

- 1. INTRODUCTION**
 - 1.1 What Is Environmental Risk Assessment ?
 - 1.2 Why Apply Risk Assessment to Dredging Project Decision-Making ?
 - 1.3 What are the Limitations of Risk Assessment ?
 - 1.4 Risk Assessment Within The Decision-Making Process
 - 1.5 The Interdisciplinary Nature of Risk Assessment
 - 1.6 Relationship of Risk Assessment to International and National Protocols
 - 1.7 Precautionary approach
 - 1.8 Format of the Guidance
 - 1.9 Information Sources
 - 1.10 References
- 2. RISK ASSESSMENT FRAMEWORK**
 - 2.1 Environmental Effects of Dredging and Disposal
 - 2.2 Contaminant Pathways Associated With Dredging and Disposal
 - 2.3 Applying Environmental Risk Assessment
 - 2.4 Risk Assessment Framework
 - 2.5 Big Tulip River Case Study
 - 2.6 References

3. PROBLEM FORMULATION

- 3.1 Introduction
- 3.2 Establish Assessment Objectives
- 3.3 Develop a Conceptual Model
- 3.4 Select and Characterize Receptors
- 3.5 Selecting Assessment and Measurement Endpoints
- 3.6 Analysis Plan
- 3.7 Big Tulip River Case Study
- 3.8 References

4. EXPOSURE ASSESSMENT

- 4.1 Introduction
- 4.2 Step 1 Identification of Complete Exposure Pathways Development of Receptor Profiles, and Selection of Exposure Factors
- 4.3 Fate and transport modeling
- 4.4 Food Chain Modelling and Dose calculation
- 4.5 Big Tulip River Case Study
- 4.6 References

5. EFFECTS ASSESSMENT

- 5.1 Introduction
- 5.2 Effects Assessment Process
- 5.3 Ecological Effects Assessment
- 5.4 Human Health Effects Assessment
- 5.5 Big Tulip River Case Study
- 5.6 References

6. RISK CHARACTERIZATION AND UNCERTAINTY

- 6.1 Ecological Risk characterization
- 6.2 Human Health Risk Characterization
- 6.3 Uncertainty Analysis
- 6.4 Big Tulip River Case Study - Risk Characterization and Uncertainty
- 6.5 References

7. CONCLUSIONS