

Deliverables



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Welcome Deliverables

WP	Name	Del.	Name	Remarks
1	Co-ordination	1.1	Semi-annual progress reports to be compiled from the information obtained from the project partners as input in the General co-ordination Board (GB)	-
		1.2	Proceedings of the International Workshop (at ConSoil 2003)	-
		1.3	Final report of Integrated Management System (IMS)	Missing
2	Industrial harbour areas: Case Rotterdam, the Netherlands	2.1	GIS mapped megasite description: current and planned use, potential and actual risks	
		2.2	Boundary conditions for sustainable development: stakeholders interest, funding options and legislative framework (water quality targets set by water framework directive)	
		2.3	Management instruments and effects: risk-function relations and risk reduction measures	
		2.4	Description of Management Options	
		2.5	Option driven rehabilitation scenarios, technical feasibility tests and technical designs	
		2.6	Cost-efficient management scenarios and selection of final IMS	
		2.7	Embedding principles and organizational models for IMS implementation	
3	Chloro-organic chemical industrial area: Case Bitterfeld, Germany	3.1	GIS mapped megasite description: current and planned use, potential and actual risks	
		3.2	Boundary conditions for sustainable development: stakeholders interest, funding options and legislative framework (water quality targets set by water framework directive)	
		3.3	Management instruments and effects: risk-function relations and risk reduction measures	
		3.4	Description of Management Options	
		3.5	Option driven rehabilitation scenarios, technical feasibility tests and technical designs	
		3.6	Cost-efficient management scenarios and selection of final IMS	
		3.7	Embedding principles and organizational models for IMS implementation	
4	Metal mining & processing area Case Tarnowskie Góry, Poland	4.1	GIS mapped megasite description: current and planned use, potential and actual risks	
		4.2	Boundary conditions for sustainable development: stakeholders interest, funding options and legislative framework (water quality targets set by water framework directive)	
		4.3	Management instruments and effects: risk-function relations and risk reduction measures	
		4.4	Description of Management Options	
		4.5	Option driven rehabilitation scenarios, technical feasibility tests and technical designs	
		4.6	Cost-efficient management scenarios and selection of final IMS	
		4.7	Embedding principles and organizational models for IMS implementation	
5	Megasite risk assessment	5.1	Procedure for risk assessment and evaluating the proportionality of hazard prevention measures in mega-projects	
		5.2	Assessment system for hazard appraisal and measure ranking in Megaprojects with regard to subsequent utilization (function-orientated risk assessment)	
		5.3	Guideline for monitoring and predicting the temporal and spatial behaviour of groundwater contamination for cost-effective procedures based on the risk-related management of sites	
		5.4	Risk assessment of the three Welcome Megasites	
		5.5	Evaluation study on the Welcome Mega sites risk assessments comparing national requirements versus the new harmonized procedure	
6	Multi source & mixed contaminants (NA)	6.1	Set of criteria for the suitability assessment of MNA as a site remediation measure as input for the IMS	
		6.2	Technical guideline for the implementation of MNA for the management of multiple contaminated Megasites	
		6.3	Report on the applicability of existing protocols/guidelines for EU Megasites	
		6.4	Protocol/technical guideline for the implementation on MNA (Demona)	
7	Groundwater / surface water interface (NA)	7.1	Special instruments and procedures for collecting field data at the groundwater - surface water interface	
		7.2	A reactive transport model for pollutants in the groundwater – surface water interface	
		7.3	A model describing the macro(bio)chemistry of the sediment for conceptual model building, interpretation of field data and quantification and prediction of NA-interface performance	

		7.4	Systematics for evaluation of the relative impact of groundwater contamination on surface water quality, using NA-interface knowledge and with respect to other sources of contaminant in-flux to water systems	
		7.5	NA-interface assessment system in contaminated megasite water quality management, in compliance with national/EU water directive standards	
8	Heavy metals (immobilization)	8.1	A simple method of risks identification (actual and potential) due to the presence of heavy metals	
		8.2	Screening and selection method for the evaluation of reduction in bioavailability and the selection of immobilizing agents	
		8.3	Analysis of sample rocks the Tarnowskie Góry site from various water-saturated layers, assessment of the immobilization of heavy metals in chemical and biological processes	
		8.4	Investigation of kinetics of surface water self-cleaning	
9	Multi Sediments (immobilization)	9.1	Description of characteristics of three Megasites	
		9.2	A method for rapid determination of the fraction of HOC that will desorb to the surface water	
		9.3	A tool for describing and predicting the transport of contaminated sediment particulates	
		9.4	A simulation model for selection and evaluation of measures to reduce or prevent contaminant transport to the water system	
		9.5	A concept for an engineered emission control technology	
10	Cost efficiency assessment (NA)	10.1	Pre-selection tool	See D10.3
		10.2	Cost-estimation tool, CARO – Cost Analysis of Remediation Options Tool Description	See D10.3
		10.3	Comparative analysis of cost-efficiency	
11	Construction of IMS	11.1	Procedure for GIS based description of Structure Elements of the Megasite and water quality	
		11.2	Procedure for GIS maps of current and planned function	
		11.3	Procedure for GIS maps with potential and actual risk profiles for current and planned uses	
		11.4	Procedure for description of stakeholder's interest and commitment towards current and future use	See Manual -> starting IMS -> organizing stakeholders
		11.5	Procedure for description of public interest and commitment towards current and future use	
		11.6	Procedure for description of the legislative framework	
		11.7	Procedure for assessing risk-function relations: actual and potential risk in space and time, and effects on asset value	See Manual -> risk assessment
		11.8	Procedure for the description of applicable risk reduction measures	See Manual -> Risk Management scenarios
		11.9	Procedure for listing and describing of management options	
		11.10	Procedure for listing research needs and site investigation requirements	
		11.11	Procedure for making a cost efficient IMS for managing megasite water quality	See Manual -> Risk Management scenarios -> Potential and Preferred scenarios
		11.12	Procedure for embedding principles and organizational models for IMS implementation and use for (stakeholders, public, authorities)	See Manual -> Implementation
		11.13	A guideline for an IMS approach for prevention and rehabilitation of pollution of water bodies at Mega sites	Methodology, see D 11.14
		11.14	Up to date ICT software based product, available on CD-ROM and through internet	
12	Input & evaluations by international team of end users (INTEND)	12.1	Series of semi-annual evaluation reports	
		12.2	Evaluation report of the draft version of IMS and advise on research needs	
		12.3	IMS evaluation report	
13	Knowledge transfer & dissemination	13.1	A WELCOME Internet Website	
		13.2	Spreading of WELCOME results through the CLARINET and NICOLE networks	During project
		13.3	Special WELCOME session at ConSoil 2003	Done. see D1.2
		13.4	Publications in national/international magazines/journals	During project
		13.5	Presentations at national/international conferences/seminars	Continuously during project
		13.6	End User Training Course	During project
		13.7	Assistance to a native language course for IMS management in EU accession	During project