

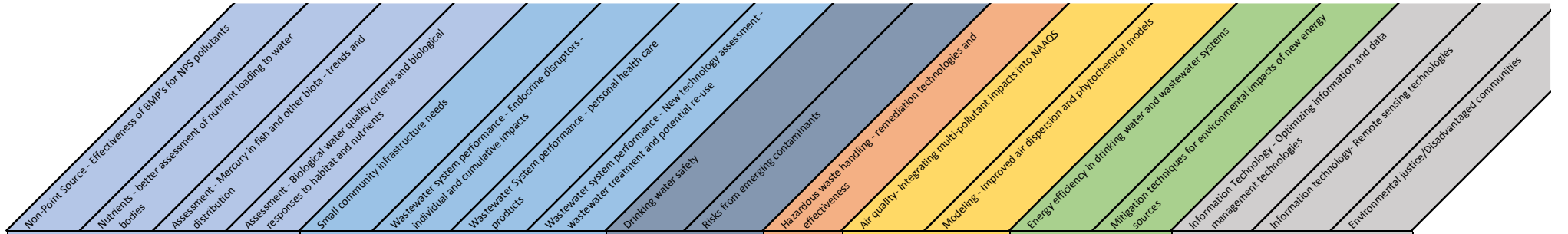
EPA ORD Response to ERIS 2014 States' Research Needs Survey

Tools Dashboard

Method, Model, Tool or Database	Status	Page	Research Needs Categories																		
			Water Pollution			Water Protection Technologies				Drinking Water		Hazardous Waste	Air		Energy		Other/ Multimedia				
			Non-point Source - Effectiveness of BMP's for NPS pollutants	Nutrients - better assessment of nutrient loading to water bodies	Assessment - Mercury in fish and other biota - trends and distribution	Assessment - Biological water quality criteria and biological responses to habitat and nutrients	Small community infrastructure needs	Wastewater system performance - Endocrine disruptors - individual and cumulative impacts	Wastewater System performance - personal health care products	Wastewater system performance - New technology assessment - wastewater treatment and potential re-use	Drinking water safety	Risks from emerging contaminants	Hazardous waste handling - remediation technologies and effectiveness	Air quality - integrating multi-pollutant impacts into WAAQS	Modeling - Improved air dispersion and physicochemical models	Energy efficiency in drinking water and wastewater systems	Mitigation techniques for environmental impacts of new energy sources	Information Technology - Optimizing information and data management technologies	Information technology - remote sensing technologies	Environmental Justice/Disadvantaged communities	
Advanced Streamline-Based Ground Water Transport Model (GW Transport)	Near-term	24									X										
Adverse outcome pathway (AOP) Wiki	Existing	2				X		X	X												
Aggregated Computational Toxicology Resource (ACToR)	Existing	2										X								X	
An Integrated Ecosystem Services and Ecological Integrity Assessment Framework for Strengthening Resiliency in Coastal Watersheds	Near-term	24																			X
AQUATOX: Linking water quality and aquatic life	Existing	2				X															
Automated Geospatial Watershed Assessment (AGWA)	Existing	2				X														X	
Benchmark Dose Modeling Software (BMDS)	Existing	3				X		X			X										
BASINS Climate Assessment Tool (CAT)	Existing	3	X	X																	
Better Assessment Science Integrating Point & Non-point Sources (BASINS)	Existing	3	X																		
Biological Condition Gradient (BCG)	Existing	4				X															
BMP GeoPlatform	Existing	4					X														
BMP Siting Tool (ArcGIS 10.1)	Existing	4					X														
CANARY	Existing	4									X										
Causal Analysis/Diagnosis Decision Information System (CADDIS)	Existing	5	X	X		X															
Chemical and Product Categories (CPCat) Database	Existing	5							X		X								X		
Chemical Transformation Simulator (CTS)	Near-term	24							X										X		
C-Line & C-PORT	Near-term	25													X						
Coastal Biodiversity Risk Analysis Tool (CBARAT)	Existing	5				X															
Coastal Gulf Ecology Model (CGEM)	Existing	6		X																	
Community Cumulative Assessment Tool (CCAT)	Near-term	25																		X	
Community Multiscale Air Quality (CMAQ) modeling system	Existing	6												X	X						
Community-Focused Exposure and Risk Screening Tool (C-FERST)	Near-term	25					X													X	X
Compilation of Physicochemical and Toxicological Information about Hydraulic Fracturing-Related Chemicals (Draft Database)	Existing	6																	X		
Consumer Product Chemical Profile Database (CPCPdb)	Existing	7							X										X		
Cyanobacteria Assessment Network (CyAN) mobile app	Long-term	37				X				X										X	
Decision Analysis for a Sustainable Environment, Economy, and Society (DASEES)	Near-term	26																	X		
Design Manual: Removal of Fluoride from Drinking Water Supplies by Activated Alumina	Existing	7								X											
Drinking Water Inorganic Chloramine Chemistry Simulators	Near-term	26									X										
Drinking Water Treatability Database (TDB)	Existing	7								X											
Eco-Health Relationship Browser	Existing	8																	X		
EcoService Models Library (ESML) – beta release	Near-term	26				X													X		
ECOTOX	Existing	8				X													X		
Effects Based Surveillance and Monitoring	Near-term	27						X	X											X	
Endocrine Disruptor Screening Program 21 (EDSP21) Dashboard	Existing	8					X	X		X									X		
Engineering Design and Operation: Biological Treatment Process for the Removal of Ammonia from a Small Drinking Water System from Pilot- to Full-Scale	Existing	8					X			X											
EnviroAtlas	Existing	9																		X	

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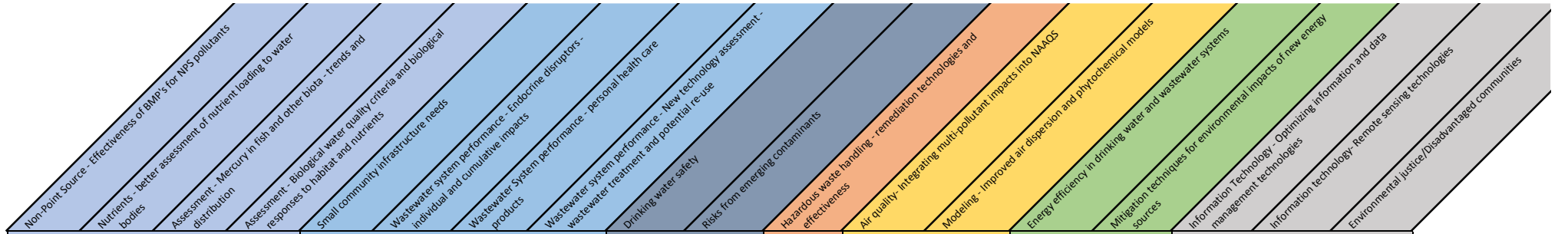
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EPA Exposure Toolbox (Expo-Box)	Existing	9							X
EPA H2O	Existing	10	X						
EPA Estuary Data Mapper (EDM)	Existing	9	X						
EPANET	Existing	10			X				
EPANET – Multi-Species eXtension (MSX)	Existing	10			X				
EPANET – Real-time eXtension (RTX)	Existing	11			X				
Fertilizer Emission Scenario Tool for CMAQ (FEST-C)	Existing	11	X						
Final Ecosystem Goods and Services Classification System (FECS- CS)	Near-term	27							X
Gauging Reaction Effectiveness for the Environmental Sustainability of Chemistries with a multi-Objective Process Evaluator (GREENSCOPE)	Near-term	27							X
Green Infrastructure Wizard (GIWIZ)	Near-term	28		X		X			X
Greenhouse Gases Mitigation Options Database (GMOD)	Existing	11						X	
Ground Water and Vadose Zone Models	Existing	11			X				
Guidelines for Water Reuse	Existing	12			X				
Health and Environmental Research Online (HERO)	Existing	12							X
Health Impact Assessment (HIA)	Existing	12		X					X
Human Well-Being Index (HWBI)	Existing	13							X
Hydrological Simulation Program - FORTRAN (HSPF)	Existing	13	X						
HYGEIA	Near-term	28							X
Incident Waste Decision Support Tool (I-Waste)	Existing	13				X			X
Integrated Climate and Land Use Scenarios (ICLUS)	Existing	14							X
Integrating Modeling with Petroleum Vapor Site Assessment	Near-term	28			X				X
Landfill Gas Emissions Model (LandGEM)	Existing	14					X		
MARKAL Model Database Development and User Support	Existing	14						X	
Mercury Geospatial Assessments for the New England Region (MERGANSER)	Existing	15		X					
Methods for measuring organic chemicals in drinking water	Existing	15				X			X
Multimedia models of the linkage between discharge and nutrients from the Mississippi River Basin (MARB) and the resultant Gulf of Mexico (GOM) hypoxia	Near-term	29	X	X					
Municipal Solid Waste Decision Support Tool	Existing	16						X	
National Database Structure for Life Cycle Performance Assessment of Water and Wastewater Rehabilitation Technologies (Retrospective Evaluation)	Existing	16				X			
National Stormwater Calculator with Climate Scenarios (SWC)	Existing	16		X					
Net Zero	Near-term	29				X			
Next generation R&D for air quality models	Near-term	29					X	X	
N-Sink	Near-term	30	X						
Nutrient Sensor Challenge	Near-term	30	X	X					X
Pacific coastal waters Ocean Nutrient Input Tool (ONIT)	Near-term	30	X						
Program to Assist in the Replacement of Industrial Solvents (PARIS III)	Existing	17							X
R-LINE model	Existing	17					X		
Seagrass habitat model	Near-term	31		X					

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Sequence alignment to predict cross-species susceptibility (SeqAPASS)	Near-term	31		X					X
Simulation of Metacommunities of Riverine Fishes (SMURF)	Near-term	31		X					
Spsurvey	Existing	17		X					
Standard Test Method and Practice Screen for Nonylphenol (NP), Octylphenol (OP), Nonylphenol Monoethoxylate (NP1EO) and Nonylphenol Diethoxylate (NP2EO) in environmental waters	Existing	18			X				
Standard Test Method for Bisphenol A in Environmental Waters	Existing	18			X				
Standard Test Methods for Perfluorinated Compounds (PFC)	Existing	18			X				
Stochastic Human Exposure and Dose Simulation (SHEDS-HT)	Existing	19		X	X	X			X
Stormwater Management Model - Climate Adjustment Tool (SWMM CAT)	Existing	19	X			X			
StreamCat and LakeCat	Near-term	32		X					
Sustainable and Healthy Communities Indicators and Indices Web-based Communication Tool (SHC I&I)	Near-term	32	X						
Tampa Bay Ecosystem Services Demonstration Project Digital Atlas	Existing	19	X						X
Leaching Environmental Assessment Framework (LEAF)	Existing	20				X		X	
Nitrogen Footprint Tool (NFT)	Near-term	33	X						
Threat Ensemble Vulnerability Assessment – Sensor Placement Optimization Tool (TEVASPOT)	Existing	20				X			
Tool for the Reduction and Assessment of Chemical and Other Environmental Impacts (TRACI)	Existing	20							X
Toxicity Estimation Software Tool (TEST)	Existing	21							X
Toxicity Forecaster (ToxCast™) and ICSS Dashboard	Existing	21				X			X
ÜberTool	Near-term	33		X					X
Virtual Beach	Existing	21		X					
Visualizing Ecosystems for Land Management Assessments (VELMA)	Existing	22	X						X
Waste Reduction Model (WARM) in openLCA	Near-term	33					X	X	X
Water Infrastructure Database (WATERID)	Existing	22		X		X			
Water Quality Analysis Simulation Program (WASP)	Existing	22	X						
Water Quality Analysis Tool (WQAT)	Near-term	34	X						
Watershed Management Optimization Support Tool (WMOST)	Near-term	34	X	X					
Watershed Sustainability Project Tool	Near-term	34		X					
Web-based Interspecies Correlation Estimation (Web-ICE)	Existing	23		X					X
WetQual	Near-term	35	X						