





## **TECHNICAL REPORT**

**BAIKAL BASIN TRANSBOUNDARY DIAGNOSTIC ANALYSIS** 

# STAKEHOLDERS FOR SUSTAINABLE MANAGEMENT IN THE BAIKAL BASIN

### BAIKAL BASIN TRANSBOUNDARY DIAGNOSTIC ANALYSIS – TECHNICAL REPORT

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#### Disclaimer

The findings and conclusions of this document are those of the adopting parties and do not necessarily reflect the policies or opinions of donors and supporting partners including GEF, UNDP, and UNOPS.

#### **ABBREVIATIONS AND ACRONYMS**

EIMC - Environmental Impact Monitoring Center

MNEGD - Ministry of Nature, Environment and Green Development

RB - Republic of Buryatia

MCUD - Ministry of construction and urban development

MRT - Ministry of Roads and Transportation

MIA - Ministry of Industry and Agriculture

SSIA - State Specialized Inspection Agency

MTA - Mongolian Tourism Association

# STAKEHOLDERS FOR SUSTAINABLE MANAGEMENT IN THE BAIKAL BASIN

PROBLEM AREA		KEY SECTORS AND GROUPS CAUSING THE PROBLEM	GOVERNING / DECISION-MAKING AUTHORITIES	KEY GOVERNING BODIES FROM CIVIL SOCIETY
DEGRADATION OF AQUATIC AND TERRESTRIAL HABITATS	Modification of ecosystems	Heavy manufacturing, including Baikal and Selenge pulp and paper mills; Aircraft manufacturing plant in Ulan-Ude; Meat processing plant in Ulan-ude; Locomotive repair plant in Ulan-Ude; Marble mining in Slydyanka; Gusinoozerskaya coal mine; Dzhidinsky mining (although the company closed, its facilities continue to have a negative impact); Light manufacturing industry (e.g. food and beverages production, textile industry); Agro-processing industry.	Mongolia: Environmental Impact Monitoring Center (EIMC); Ministry of Nature, Environment and Green Development (MNEGD).  Russia: Federal Service for Ecological, Technological and Nuclear Supervision (under Ministry of Natural Resources and Ecology); Republic of Buryatia (RB) Ministry of Economy (investment policy); RB Ministry of Industry and Commerce (coordination); RB Ministry of Natural Resources (regulation).	Mongolia: TNC; WWF; WCS; The Asia Foundation (US); GIZ; Mongolian Environmental Civil Council (MESC); Mongolian Rivers and Lakes Association; Mongolian Tourism Association (MTA); Communty
DEGRADATION OF AQU	Modificat	ENERGY PRODUCTION  Hydroelectric power plants; Thermal power stations in Ulan-Ude, Gusinoozerk, Baikalsk, and Selenginsk; Coal mine industry.	Mongolia: Environmental Impact Monitoring Center (EIMC) of the MNEGD; Ministry of Nature, Environment and Green Development (MNEGD).  Russia: Federal Ministry of Energy (coordination); Federal Agency for Water Resources and Federal Service for Ecological, Technological and Nuclear Supervision (both under Ministry of Natural Resources and Ecology) (control); RB Ministry of Natural Resources (regulation); RB Ministry for the development of transport, energy and road infrastructure, including energy department (coordination).	Association for Sayan ecoregion; Local livestock herding community associations; Hunter associations.

Industrial mining companies (e.g. non-ferrous and precious metals, coal, limestone, uranium, oil); Informal / Illegal mining workers  URBANISATION  Town planners; Property developers; Construction companies; Communication companies; Urban populations	Mongolia: Ministry of Energy; Environmental Impact Monitoring Center (EIMC) of the MNEGD.  Russia: Federal Service for Ecological, Technological and Nuclear Supervision (under Ministry of Natural Resources and Ecology) (control); Federal Agency for Subsoil Use (under Ministry of Natural Resources and Ecology) (coordination); Ministry of Natural Resources of the RB (regulation).  Mongolia: Ministry of construction and urban development (MCUD).  Russia: Federal Service for Ecological, Technological and Nuclear Supervision (under Ministry of Natural Resources and Ecology) (control); Ministry of Construction and Modernization of Housing Industry of the RB (coordination); Administrations of Municipalities (coordination).	WWF; Green Peace, units of the Russian Geographical Society; Fund for Protection of Lake Baikal; national and regional universities; Institutions of Russian Academy of Sciences (including Siberian Branch);
	(coordination).	

PROBLEM	AKEA	KEY SECTORS AND GROUPS CAUSING THE PROBLEM	GOVERNING / DECISION-MAKING AUTHORITIES	KEY GOVERNING BODIES FROM CIVIL SOCIETY
ON OF AQUATIC AND TERRESTRIAL HABITATS (CONTINUED)		TRANSPORT & INFRASTRUCTURE  Town planners; Ports Authorities; Construction companies; Transport industry; Servicing industry; Water transport.	Mongolia: Ministry of construction and urban development (MCUD); Ministry of Roads and Transportation (MRT).  Russia: Federal Service for Ecological, Technological and Nuclear Supervision (under Ministry of Natural Resources and Ecology) (control); RB Ministry for the development of transport, energy and road infrastructure (coordination); Administrations of Municipalities (land issues).	Russia (continued): Scientific Council of the
	LIVESTOCK KEE Large-scale and sr farmers (vegetable grains); Cattle indu	AGRICULTURE & LIVESTOCK KEEPING  Large-scale and small-scale farmers (vegetables, potatoes, grains); Cattle industry (bovine livestock, sheep, goats, poultry)	Mongolia: Ministry of Industry and Agriculture (MIA). Russia: Federal Service for Supervision in the Sphere of Environmental Management (control); RB Ministry of Agriculture and Food (coordination); Administrations of Municipalities (land issues).	Baikal of Siberian Branch of Russian Academy of Sciences;Public Council on Lake Baikal in Irkutsk Region Government;
; AND TERRESTRI		FISHERIES & AQUACULTURE  Fish farmers (omul, sig, sturgeon)	Mongolia: n.a.  Russia: RB Ministry of Agriculture and Food (regulation); Baikal Basin Management for the Protection, Reproduction of Fish Resources and Fisheries Management (control).	Buryat Regional Association for Baical; local NGOs, including: Buryat Regional Department on
ION OF AQUATIC		TOURISM  National tourism and recreation industies; National and international tourists	Mongolia: Ministry of Culture, Sport and Tourism. Russia: RB Tourism Agency (coordination); RB Ministry of Natural Resources (regulation); Administrations of Municipalities (waste and land issues).	Lake Baikal (BRO Baikal); All-Russian Society for Nature - Buryatia, of
DEGRADATI	Land degradation	AGRICULTURE & LIVESTOCK KEEPING  Large-scale cattle industry (mainly keepers of cows, sheep, and goats); Traditional pastoralists	Mongolia: Ministry of Industry and Agriculture (MIA); Local governments (Aimag and Soum administration); MNEGD.  Russia: RB Ministry of Agriculture and Food (coordination); Administrations of Municipalities (land issues).	Irkutsk and Chita branches; Interregional Public Organization "Great Baikal Trail"; NGO
	Deforestatio n	INDUSTRY Industrial loggers; Small-scale loggers; Timber industry; Paper industry	Mongolia: Ministry of nature, environment and Green Development.  Russia: Federal Forestry Agency (coordination, control); Republican Forestry Agency (regulation).	"Baikal Wave"; Tahoe-Baikal Institute, Public Organizations "Fringe", "Firn",

ILLEGAL EXPLOITATION	Mongolia: Ministry of nature, environment and Green Development.	"Save Baikal".
Industrial loggers; Small-scale loggers; Timber industry	Russia: Federal Forestry Agency (coordination, control); Republican Forestry Agency (regulation).	
MINING  Industrial mining companies	Mongolia: Ministry of nature, environment and Green Development; Ministry of Mining.	_
(e.g. non-ferrous and precious metals, coal, limestone, uranium, oil); Informal / Illegal mining workers	Russia: Federal Forestry Agency (control); Federal Agency for Subsoil Use (regulation).	

PROBLEM AREA		KEY SECTORS AND GROUPS CAUSING THE PROBLEM	GOVERNING / DECISION-MAKING AUTHORITIES	KEY GOVERNING BODIES FROM CIVIL SOCIETY
DEGRADATION OF HABITATS	Deforestation	TRANSPORT  Town planners; Construction companies  AGRICULTURE  Large-scale and small-scale farmers	Mongolia: Ministry of Roads and Transportation. Russia: Republican Forestry Agency (regulation); RB Ministry for the development of transport, energy and road infrastructure (coordination).  Mongolia: Ministry of Industry and Agriculture (MIA); Local governments (Aimag and Soum administration); MNEGD.  Russia: Republican Forestry Agency (control); RB Ministry of Agriculture and Food (coordination); Administrations of Municipalities (coordination).	See above
UNSUSTAINABLE FISHERIES AND WILDLIFE	Over-exploitation of aquatic biota	FISHERIES & AQUACULTURE  Artisanal/subsistence fishermen; Industrial fishing fleets (largely focusing on endemic Omul, but also sig, roach, yelets, perch); Recreational fishermen; Aquaculture farms	Mongolia: National fisheries authorities; Ministry of Industry and Agriculture (MIA).  Russia: National fisheries authorities (regulation, control); RB Ministry of Agriculture and Food (regulation); Baikal Basin Management for the Protection, Reproduction of Fish Resources and Fisheries Management (regulation, control).	

	ILLEGAL EXPLOITATION  Artisanal/subsistence fishermen; Industrial fishing fleets; Recreational fishermen; Traditional/indigenous hunters; Recreational hunters	Mongolia: Local governments; Aimag and Soum authorities; Ministry of NEGD.  Russia: Federal Fisheries Agency (regulation, control); Baikal Basin Management for the Protection, Reproduction of Fish Resources and Fisheries
Over-exploitation of wildlife	TOURISM  National tourists; Urban and rural populations	Management (regulation, control).  Mongolia: Ministry of Culture, Sport and Tourism. Russia: Burpriroda (under the Ministry of Natural Resources of RB) (regulation, control).
Over-expl	ILLEGAL EXPLOITATION  Urban and rural populations	Mongolia: State Specialized Inspection Agency (SSIA). Russia: Burpriroda (under the Ministry of Natural Resources of RB) (regulation, control).
	ENERGY PRODUCTION	Mongolia: Ministry of Mining.
SMO	Hydroelectric power plant companies (e.g. Irkutskenergo in Irkutsk)	Russia: Federal Agency for Water Resources (under Ministry of Natural Resources and Ecology) (regulation, control); Federal Ministry of Energy (coordination).
HYDROLOGICAL FLOWS Water level increase	MINING Industrial mining companies	Mongolia: Ministry of Mining.  Russia: Federal Agency for Water Resources (under Ministry of Natural Resources and Ecology) (regulation, control); Federal Agency for Subsoil Use (under Ministry of Natural Resources and Ecology) (coordination).

PROBLEM	AREA	KEY SECTORS AND GROUPS CAUSING THE PROBLEM	GOVERNING / DECISION-MAKING AUTHORITIES	KEY GOVERNING BODIES FROM CIVIL SOCIETY
		AGRICULTURE  Large-scale farmers (vegetables, potatoes, grains)	Mongolia: Ministry of Industry and Agriculture (MIA); Local governments (Aimag and Soum administration); MNEGD. Russia: Federal Agency for Water Resources (under Ministry of Natural Resources and Ecology) (regulation, control).	See above
SICAL FLOWS	chment supplies)	MINING Industrial mining companies	Mongolia: Ministry of Mining. Russia: Federal Agency for Subsoil Use (coordination); Federal Agency for Water Resources (both under Ministry of Natural Resources and Ecology) (regulation, control).	
MODIFICATION OF HYDROLOGICAL FLOWS	Water level decrease in the catchment basin (including groundwater supplies)	Town planners; Sewage plants; Water purification plants; Urban populations	Mongolia: Ministry of construction and urban development (MCUD) Ministry of NEGD. Russia: Federal Service for Veterinary and Phytosanitary Supervision (control).	
MODIFICATION	Water level decr basin (including	AGRICULTURE & LIVESTOCK KEEPING  Large-scale farmers (vegetables, potatoes, grains)	Mongolia: Ministry of Industry and Agriculture. Russia: Federal Agency for Water Resources (under Ministry of Natural Resources and Ecology) (regulation, control).	
	atic habitats	TRANSPORT  Transport industry (mostly large barges that use ballast water)	Mongolia: n.a. Russia: Federal Service for Veterinary and Phytosanitary Supervision (control).	
SIONS	Alien species invading aquatic habitats	FISHERIES & AQUACULTURE Aquaculture farms	Mongolia: Ministry of NEGD Ministry of Industry and Agriculture.  Russia: Federal Service for Veterinary and Phytosanitary Supervision (control).	
BIOLOGICAL INVASIO	Alien spec	TOURISM & RECREATION  National and international tourists	Mongolia: MNEGD.  Russia: Federal Service for Veterinary and Phytosanitary Supervision (control).	
BIOL	nvading Iabitats	TRANSPORT  Transport industry; Timber industry	Mongolia: n.a.  Russia: Federal Service for Veterinary and Phytosanitary Supervision (control).	
	Alien spp invading terrestrial habitats	AGRICULTURE & LIVESTOCK KEEPING  Large-scale and small-scale farmers	Mongolia: MNEDG Ministry of Industry and Agriculture.  Russia: Federal Service for Veterinary and Phytosanitary Supervision (control).	

		TOURISM & RECREATION	Mongolia: MNEGD.	
		National and international tourists	Russia: Federal Service for Veterinary and Phytosanitary Supervision (control).	
DECLINE OF WATER QUALITY	Chemical contamination	INDUSTRY  Heavy manufacturing (e.g. ferrous and non-ferrous metallurgical industry, pulp and paper industry in Baikalsk and Selenginsk); Light manufacturing industry (e.g. food and beverages production, textile industry; Agro-processing industry; Petrol industry; Air pollution from power stations (e.g. Guzinoozersk, Severobaikalsk)	Mongolia: Department of Water Affairs; MNEGD, State Specialized Inspection Agency (SSIA).  Russia: Federal Service for Ecological, Technological and Nuclear Supervision (control); Federal Service for Supervision in the Sphere of Environmental Management (control).	

PROBLEM	AKEA	KEY SECTORS AND GROUPS CAUSING THE PROBLEM	GOVERNING / DECISION-MAKING AUTHORITIES	KEY GOVERNING BODIES FROM CIVIL SOCIETY
ŢŢ	inued)	Industrial mining companies (e.g. non-ferrous and precious metals, coal, limestone, uranium, oil); Informal / Illegal mining workers	Mongolia: MNEDG; Ministry of Mining; SSIA.  Russia: Federal Service for Ecological, Technological and Nuclear Supervision (control); Federal Service for Supervision in the Sphere of Environmental Management (control).	See above
DECLINE OF WATER QUALITY	Chemical contamination (continued)	TRANSPORT  Transport industry; Urban populations using transport	Mongolia: MNEDG, Ministry of Mining, SSIA.  Russia: Federal Service for Ecological, Technological and Nuclear Supervision (control); Federal Service for Supervision in the Sphere of Environmental Management (control).	
DECLINE	Chemical c	AGRICULTURE  Large-scale and small-scale farmers  URBANISATION  Urban and rural populations; Solid waste operators	Mongolia: MNEDG, MIA.  Russia: Federal Service for Veterinary and Phytosanitary Supervision (control).  Mongolia: MNEGD; MCUD;Local governments.  Russia: Federal Service for Ecological, Technological and Nuclear Supervision (control); Federal Service for Supervision in the Sphere of Environmental Management (control).	

Notice that the state of Defence (exception): Fordered
National armies  Russia: Ministry of Defence (coordination); Federal Service for Ecological, Technological and Nuclear Supervision (control); Federal Service for Supervision in the Sphere of Environmental Management (control).
INDUSTRY Mongolia: MNEGD, MIA.
Heavy manufacturing (e.g. ferrous and non-ferrous metallurgical industry, pulp and paper industry); Light manufacturing industry (e.g. food and beverages production, textile industry); Solid waste operators; Livestock industry; Agroprocessing industry; Petrol industry  AGRICULTURE  Large-scale and small-scale farmers  Mongolia: MIA.  Russia: Federal Service for Ecological, Technological and Nuclear Supervision (control); Federal service for veterinary and phytosanitary supervision (control).  Mongolia: MIA.  Russia: Federal Service for Veterinary and Phytosanitary Supervision (control).  Mongolia: MNEGD; MCUD; SSIA.
AGRICULTURE Mongolia: MIA.
Large-scale and small-scale farmers  Russia: Federal Service for Veterinary and Phytosanitary Supervision (control).
URBANISATION Mongolia: MNEGD; MCUD; SSIA.
Urban and rural populations; Municipal wastewater treatment facility operators  Russia: Federal Service for Ecological, Technological and Nuclear Supervision (control); Federal Service for Veterinary and Phytosanitary Supervision (control); Sanitary-epidemiological Service (control); Administrations of Municipalities (coordination).
HEALTH Mongolia: MNEGD; Ministry of Health.
Hospitals and clinics Russia: Sanitary-epidemiological Service (control).

PROBLEM AREA		KEY SECTORS AND GROUPS CAUSING THE PROBLEM	GOVERNING / DECISION-MAKING AUTHORITIES	KEY GOVERNING BODIES FROM CIVIL SOCIETY
		AGRICULTURE & LIVESTOCK KEEPING	Mongolia: SSIA; MNEGD.	
OF WATER (continued)	Eutrophication	Large-scale and small-scale crop farmers	Russia: Federal Service for Ecological, Technological and Nuclear Supervision (control); Administrations of Municipalities (coordination).	See above
		URBANISATION	Mongolia: SSIA; MCUD.	
DECLINE	Eur	Urban and rural populations; Municipal wastewater treatment facility operators	Russia: Federal Service for Ecological, Technological and Nuclear Supervision (control); Administrations of Municipalities (coordination).	

	INDUSTRY	Mongolia: n.a.	
Thermal	Thermo-electric power facilities (e.g. Guzinoozersk and Severobaikalsk in Russia)	Russia: Federal Service for Ecological, Technological and Nuclear Supervision (control).	
	INDUSTRY	Mongolia: MNEGD;SSIA.	
sedimentation	Industrial loggers; Small-scale loggers; Timber industry; Paper industry	Russia: Republican Forestry Agency (regulation, control).	
lime	AGRICULTURE &	Mongolia: MIA; MNEGD. Russia: RB Ministry of	
sec	LIVESTOCK KEEPING	Agriculture and Food (coordination); Administrations of	
	Large-scale and small-scale farmers; Cattle industry	Municipalities (land issues).	