

DESCRIPTION OF COMPILED MAPS

No.	File name	Description
1	HydrologicalNetwork	Neman and Pregolya basins, hydrological network and national borders
2	HydrologicalMonitoring	Location of existing hydrological monitoring stations
3	PointSources	Location of identified point sources
4	NitrogenPointSources	Total nitrogen load from point sources
5	PhosphorusPointSources	Total phosphorus load from point sources
6	NitrogenDiffusiveSources	Nitrogen input by mineral fertilizer in administrative units
7	PhosphorusDiffusiveSources	Phosphorus input by mineral fertilizer in administrative units
8	HydropowerPlantCapacity	Maximum capacities of hydropower plants
9	HydropowerPlantFishPasses	Information on fish passes in hydropower plants
10	SurfaceWaterMonitoring	Location of current surface water monitoring sites
11	EcologicalStatusgBOD	Ecological status/potential of river water bodies at monitoring sites according to biochemical oxygen demand (classification was done using common criteria of Lithuania)
12	EcologicalStatusTotalPhosphorus	Ecological status/potential of river water bodies at monitoring sites according to total phosphorus (classification was done using common criteria of Lithuania)
13	EcologicalStatusNitrateNitrogen	Ecological status/potential of river water bodies at monitoring sites according to nitrate nitrogen (classification was done using common criteria of Lithuania)
14	ChemicalStatus2008	Chemical status of surface water bodies at monitoring sites with failure to achieve good status (according to EQS Directive 2008/105/EC)
15	ChemicalStatus2013	Chemical status of surface water bodies at monitoring sites with failure to achieve good status (according to EQS of Directive 2013/39/EU)
16	EcologicalStatusLakes	Ecological status/potential of lakes water bodies according to national classification systems
17	EcologicalStatusRivers	Ecological status/potential of river water bodies according to national classification systems
18	GroundwaterBodies	Groundwater bodies with codes
19	GroundwaterNetwork	Location of groundwater monitoring wells

GIS LAYERS

No.	Name	Description
1	Rivers	Hydrological network line features.
2	Lakes	Hydrological network polygon features
3	Basins	Neman and Pregolya basins
4	Subbasins	Subbasins of rivers in Neman and Pregolya basins
5	HydroMonitoring	Current hydrological monitoring stations
6	SWmonitoring	Existing surface water monitoring network
7	HydroPowerPlants	Hydropower plants
8	PointSources	Point sources
9	DiffusePollution	Diffuse pollution in administrative units
10	GroundwaterBodies	Groundwater bodies/aquifers
11	GWmonitoring	Groundwater monitoring network (wells)
12	ProtectedAreas	Protected areas

FIELDS OF LAYER "RIVERS"

Field name	Description
NAME	River name
WB_CODE	Water body code
SUB_BASIN	Sub-basin name
SBS_CODE	Sub-basin code
BASIN	Basin name
BAS_CODE	Basin code
RBD	River basin district name
RBD_CODE	River basin district code
LENGTH_KM	Segment length, km
HMWB	Heavily modified water body (0 – no, 1- yes)
AWB	Artificial water body (0 – no, 1- yes)
STATUS_ECO	Ecological status or potential estimation If HMWB or AWB are 1 data indicates the ecological potential otherwise ecological status; 1 – high status/maximum potential; 2 – good status/good potential; 3 – moderate status/ moderate potential; 4 – poor status/poor potential; 5 – bad status/ bad potential.
STATUS_CH	Chemical status 1 – good status; 2 – failing to achieve good status

FIELDS OF LAYER "LAKES"

Field name	Description
NAME	Water body name
WB_CODE	Water body code
SUB_BASIN	Sub-basin name
SBS_CODE	Sub-basin code
BASIN	Basin name
BAS_CODE	Basin code
RBD	River basin district name
RBD_CODE	River basin district code
AREA_KM2	Area, km ²
HMWB	Heavily modified water body (0 – no, 1- yes)
AWB	Artificial water body (0 – no, 1- yes)
STATUS_ECO	Ecological status or potential estimation If HMWB or AWB are 1 data indicates the ecological potential otherwise ecological status; 1 – very good status/maximum potential; 2 – good status/good potential; 3 – moderate status/moderate potential; 4 – poor status/poor potential; 5 – bad status/ bad potential.
STATUS_CH	Chemical status: 1 – good status; 2 – failing to achieve good status.

FIELDS OF LAYER "BASINS"

Field name	Description
BASIN	Basin name
AREA_KM2	Area, km ²

FIELDS OF LAYER "SUBBASINS"

Field name	Description
SUB_BASIN	Sub-basin name
SBS_CODE	Sub-basin code
BASIN	Basin name
BAS_CODE	Basin code
RBD	River basin district name
RBD_CODE	River basin district code
AREA_KM2	Area, km ²

FIELDS OF LAYER "HYDROMONITORING"

Field name	Description
HS_NAME	Hydrological station name
HS_WMO_CODE	Hydrological station WMO code
X_COORDIN	X coordinate
Y_COORDIN	Y coordinate
WB_NAME	River, lake etc. name
WB_CODE	River, lake etc. code
AREA_KM2	Hydrological station catchment area, km ²
DISCHARGE	If discharge is measured value is 1, otherwise 0

FIELDS OF LAYER "SWMONITORING"

Field name	Description
ST_NAME	Station name
STATION_CODE	Station code (if available EU, otherwise national)
X_COORDIN	X coordinate
Y_COORDIN	Y coordinate
RIVER_LAKE	1 – monitoring of rivers; 2 – lake monitoring
NAME	Name of the monitored river or lake
BOD	Ecological status/potential according to biochemical oxygen demand
N	Ecological status/potential according to nitrate nitrogen
P	Ecological status/potential according to total phosphorus
CH2008	Chemical status of surface water bodies at monitoring sites with failure to achieve good status according to 2008/105/EC
CH2013	Chemical status of surface water bodies at monitoring sites with failure to achieve good status according to 2013/39/EC
EcoBL	Ecological status of water bodies in Belarus

FIELDS OF LAYER "HYDROPOWERPLANTS"

Field name	Description
HP_NAME	Hydropower plant name
X_COORDIN	X coordinate
Y_COORDIN	Y coordinate
RIVER	River, lake etc. name
DISTANCE	Distance from river mouth
CAPACITY	Maximum capacity
FISH_PASSES	With fish passes - 1; without fish passes – 0.

FIELDS OF LAYER "POINTSOURCES"

Field name	Description
PS_NAME	Point source name
X_COORDIN	X coordinate WGS84
Y_COORDIN	Y coordinate WGS84
RIVER	River, lake etc. name
PS_DISCH	Point source discharge
BOD7_CONS	Concentration of biochemical oxygen demand 7 days, mg/l

NH4-N_CONS	Concentration of Ammonia nitrogen, mg/l
NO3-N_CONS	Concentration of nitrate nitrogen, mg/l
TN_CONS	Concentration of total nitrogen, mg/l
PO4-P_CONS	Concentration of phosphate, mg/l
TP_CONS	Concentration of total phosphorous, mg/l
BOD7_LOAD	Load of biochemical oxygen demand 7 days, tons
NH4-N_LOAD	Load of ammonia nitrogen, tons
NO3-N_LOAD	Load of nitrate nitrogen, tons
TN_LOAD	Load of total nitrogen, tons
PO4-P_LOAD	Load of phosphate, tons
TP_LOAD	Load of total phosphorous, tons

FIELDS OF LAYER "DIFFUSEPOLLUTION"

Field name	Description
MUNICIP	Municipality name
AREA	Area of municipality, km2
LSU	Livestock units
AREA_AGR	Area of agricultural land, ha
MINER_N_HA	Mineral nitrogen applied kg/year per arable land hectare
MINER_P_HA	Mineral phosphorous applied kg/year per arable land hectare
MINER_N_T	Mineral nitrogen totally applied in arable land
MINER_P_T	Mineral phosphorous totally applied in arable land

FIELDS OF LAYER "GROUNDWATERBODIES"

Field name	Description
GWB	Groundwater body name
GWB_CODE	Groundwater body code
RBD	River basin district name
RBD_CODE	River basin district code
AREA_KM2	Area, km ²

FIELDS OF LAYER "GWMONITORING"

Field name	Description
WELL_NUMBER	Number of observation well
STATION_CODE	Station code
STATION_NAME	Station name
X_COORDIN	X coordinate WGS84
Y_COORDIN	Y coordinate WGS84
ALTITUDE	Altitude of land surface, m NN
WELL_ADDRESS	Well address
AQUIFER_TYPE	Type of monitored aquifer/ aquifers (shallow, quaternary confined, pre-quaternary confined)
AQUIFER_INDEX	Geological index of monitored aquifer
PARAMETERS_TYPE	Type of monitored parameters (gw levels, chemistry)

FIELDS OF LAYER "PROTECTEDAREAS"

Field name	Description
NAME_EN	Protected area English name
NAME	Protected area name
PA_CD_EU	European code of protected area
PA_CD	Code of protected area
PA_TYPE	Type of protected area
AREA_HA	Area, ha