

社会開発調査部報告書  
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REPORT

ON

THE MANAGEMENT OF THE

CHANGING PRACTICES

IN

INDUSTRIAL DEVELOPMENT

Report

Report

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J 1149874 (8)

1985

Report on the Management of the Changing Practices in Industrial Development

1985  
JICA  
1149874



**Japan International Cooperation Agency (JICA)**

**Ministry of Environment and Waters  
Republic of Bulgaria**

**THE STUDY  
ON  
INTEGRATED ENVIRONMENTAL MANAGEMENT FOR  
THE MARITZA RIVER BASIN  
IN THE  
REPUBLIC OF BULGARIA**

**Final Report**

**Supporting Report**

**March 1999**

**Pacific Consultants International, Tokyo**



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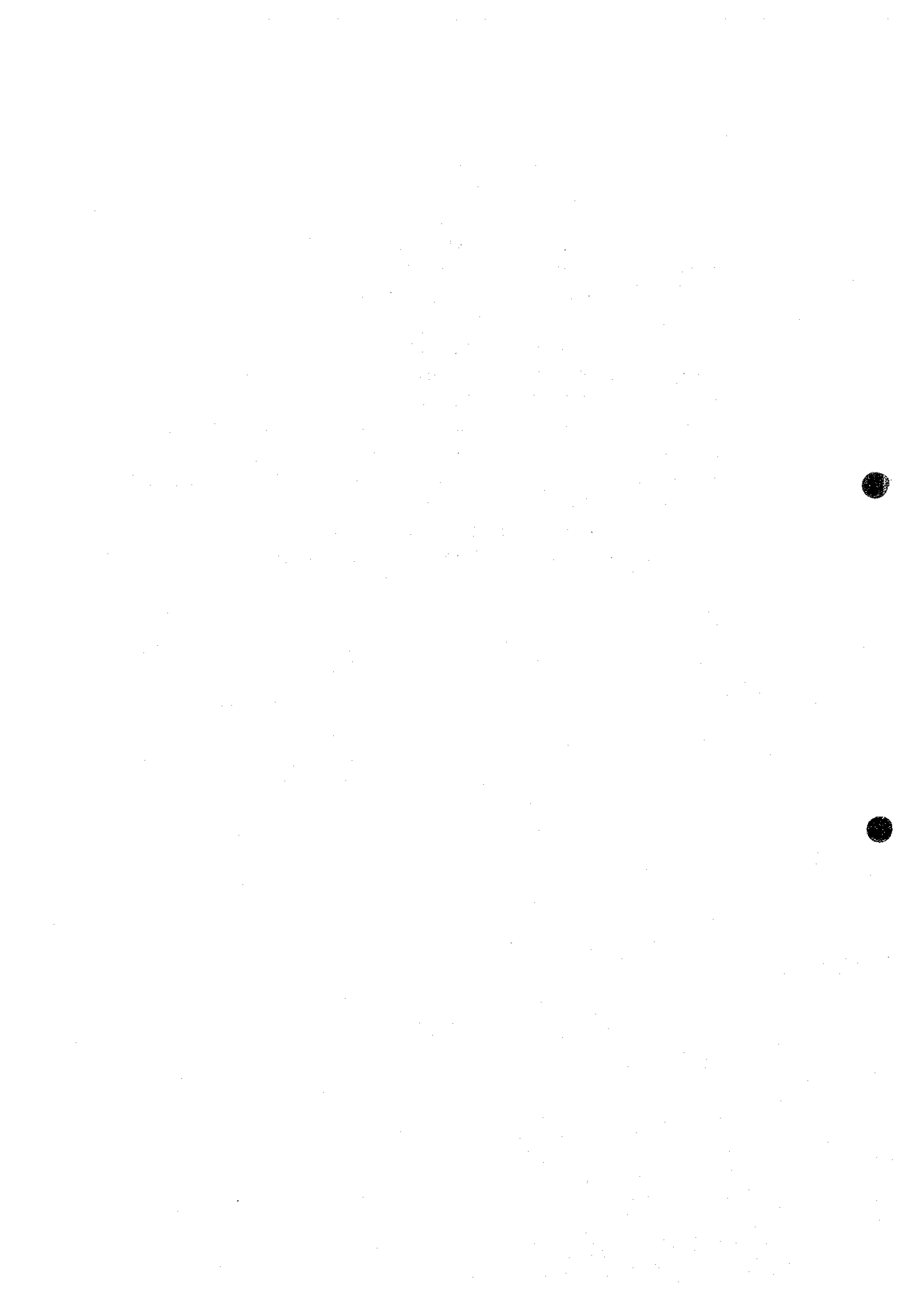
The cost estimate was made based on prevailing market price in late 1997 and expresses in US\$ according to the following exchange rate.

US\$ 1,00 = Leva 1730 = Yen 114

(As of late 1997)

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## ABBREVIATION

BAT:	Best Available Technology
BOD:	Biochemical Oxygen Demand
BOT:	Build-Operate-Transfer
BSP:	Biodiversity Support Program
BSECEE:	Balkan Science and Education Center of Ecology and Environment
CEEC:	Central and East European Countries
COF:	Committee of Forest
COD:	Chemical Oxygen Demand
CD:	Civil Defence
COG:	Committee of Geology and Mineral Resources
EBRD:	European Bank for Reconstruction and Development
EC:	European Commission
EC-PHARE:	EC-Poland and Hungary Aid Restructuring Economy Program of Assistance Extended to all CEEC
EU:	European Union
EIA:	Environmental Impact Assessment
EPA:	Environmental Protection Act
GIS:	Geographical Information System
GDP:	Gross Domestic Product
GEF:	Bulgarian Global Environmental Facility Biodiversity Project
HEI:	Hygiene Epidemiological Inspectorate
ISC:	Irrigation Systems Ltd.
IUCN:	The World Conservation Union
IBRD:	International Bank for Reconstruction and Development (The World Bank)
JICA:	Japan International Cooperation Agency
MOAFAR:	Ministry of Agriculture, Forestry and Agrarian Reform
MOEE	Ministry of Energy and Energy Resources
MOEW:	Ministry of Environment, Water and Mineral Resources (24/Oct/97)
MOF:	Ministry of Finance
MOH:	Ministry of Health

MOI:	Ministry of Industry
MORDPW:	Ministry of Regional Development and Public Works
MOT:	Ministry of Transport
NCESD:	National Center of Environmental and Sustainable Development, MOEW
NCHE:	National Center of Hygiene Epidemic, MOH
NEAP:	National Environmental Action Plan
NIMH:	National Institute of Meteorology and Hydrology of Bulgarian Academy of Science
NNPS:	National Nature Protection Service
NSI:	National Statistical Institute
PHARE CBC:	The Phare Cross-Border Cooperation Program
PRA:	Privatization Agency
REI:	Regional Environmental Inspectorate
UNDP:	United Nations Development Program
UNEP:	United Nations Environment Program
UNESCO:	United Nations Educational, Scientific and Cultural Organization
USAID:	United States Agency for International Development
VIK:	Water Supply & Sewerage Company
WMO:	World Meteorological Organization,
WWTP:	Waste Water Treatment Plant(s)

### UNIT

ECU:	Currency Unit of European Union US\$ 1.115 = ECU 1.0
Lev:	Currency Unit of Bulgaria US\$ 1.0 = Lev. 1790 (February 09, 1998)
dec:	decare 1 dec = 0.1 ha



**SUPPORTING REPORT A**  
**DATA BASE**



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## **SUPPORTING REPORT A      DATABASE**

### **1. Introduction**

Geographic Information System (GIS) has been introduced for the study to analyze the present conditions, to formulate a Master Plan for integrated environmental management of the Maritza river basin, and to conduct a Feasibility Study on the priority projects.

In the Study, basic spatial data of topographic and geological conditions, land use, hydrological and meteorological monitoring networks, present pollution source and pollution load, the other related data has been collected.

GIS is a powerful and useful tool for the study to collect and store the data, organize and identify the related data, support to draw a conclusion, and take over the study results to the Government of Bulgaria. It is believed that the Maritza GIS Database will be more useful if the Government of Bulgaria would continuously add and analyze the monitoring data of the basin for the future decision making. GIS helps you discover and better understand the changes from the present condition to the future of the basin.

In the Study, the GIS data has been developed by the software of ArcView3 from ESRI Inc. ArcView is a very sophisticated software and have the data change-ability with ArcInfo and many other GIS and CAD systems.

In this chapter, the structure of the GIS database made by the Study Team is mainly described. And Quick Start Tutorial of the Maritza GIS Database is prepared.

## 2. Spatial Data digitized in the Study

Following spatial data are digitized from 1/100,000 and 1/25,000 topographic maps as well as the other available thematic maps. ( ) means feature type of spatial data.

- Elevation (grid and contour lines)
- River System (line)
- Main/major Tributary boundaris (line and polygon)
- Sub-basin boundaries (line and polygon)
- Road network (line)
- Railway (line)
- Town (point)
- Administrative boundary (line)
- Municipal/Regional Center (point)
- Lake (polygon)
- Reservoir (polygon)
- Dam (point)
- Irrigation area (polygon)
- Irrigation canal (line)
- Intake weir (line)
- Hydrological monitoring station (point)
- Meteorological monitoring station (point)

- Groundwater monitoring station (point)
- Industries (point)
- Mine coal (point)
- Hydropower plant (point)
- Thermal Power plant (point)
- Geological map (polygon)
- Land cover (derived from NCORINE database)

### **3. Attribute Data collected in the Study**

Following attribute data are collected in the Study.

- River (name, category, length)
- Boundary of Sub-basin (name, Number of animals, Domestic BOD, TN, Pig-BOD, TN, Industry-BOD, area)
- Road (category, length)
- Railway (length)
- Town (name, population)
- Lakes (area, name, purpose)
- Irrigation Area (name of town, water demand)
- Irrigation Canal (name, length)
- Hydrological Monitoring Station (Organization, Code number, Seasonal BOD, NH<sub>4</sub>, NO, depth from water surface, water level in 1979, 1995)
- Meteorological Monitoring Station (name, type)
- Mine Coal (category)
- Geological Map (category)
- Land cover (area, category)

#### 4. Relationship between Spatial Data File and their Attribute

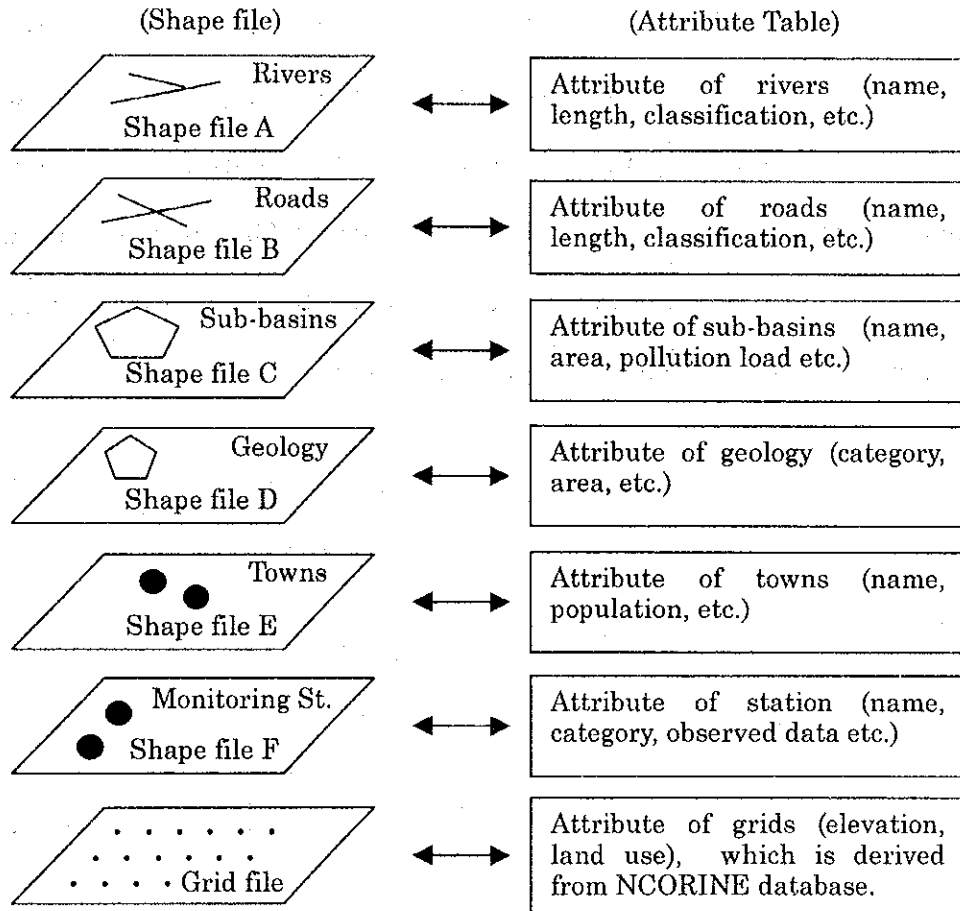
There are two types of data in GIS. One is the spatial map data, which keep location of features such as line, polygon, point and grid with their XY coordinates. Spatial map data have only information on location, area or length. These spatial data are saved as **shape file format** in the world of ArcView3. Shape file should have a single type of feature. For example, the features of line and polygon must be saved in a different shape file. At the same time, one group of theme should be a single Shape file.

Another type of data is text base attribute such as name of river, the observed data of monitoring station and statistical figures etc. Any kinds of text data which explain the spatial data can be added to the attribute table. These are saved as **dbf file format (attribute table)** in ArcView3.

Each shape file is dynamically linked with its attribute table. For example, the color of features of shape file will be automatically changed based on the specified legend when attribute data is modified. Specific features of shape file are automatically selected when some data is queried in the attribute table. On the other hand, the attribute will be automatically queried when the features on the map are selected by mouse. The relationship between shape file and attribute table is shown below. A shape file corresponds to one attribute table one by one.



## Relationship between Shape File and Attribute Table

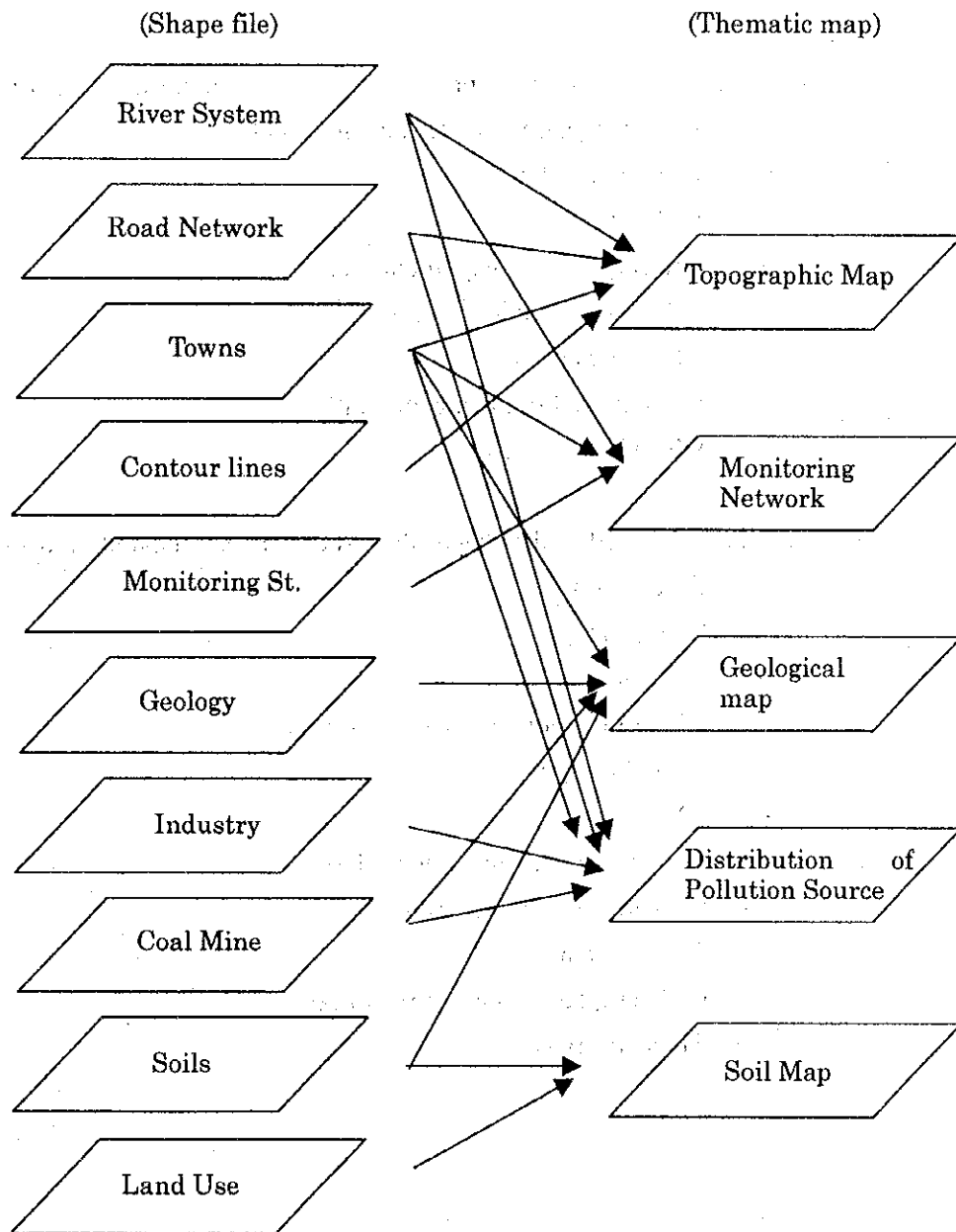


Note: polygon is closed line and has area, mesh size of grid is 500m interval.

## **5. Relationship between Shape File and Thematic Map**

A shape file is a single theme that has only one group of features such as river system or road network etc. On the other hand, several shape files is necessary to make a thematic map. It is possible for ArcView3 to combine several shape files to make specific thematic map. Same shape file becomes a component of plural thematic maps. In this way, the modification of particular shape file can be automatically reflected to many thematic maps that include one. The figures listed in Main Report, and Supporting Report are the thematic map, which is composed of several shape files. The relationship between shape file and thematic map is shown below.

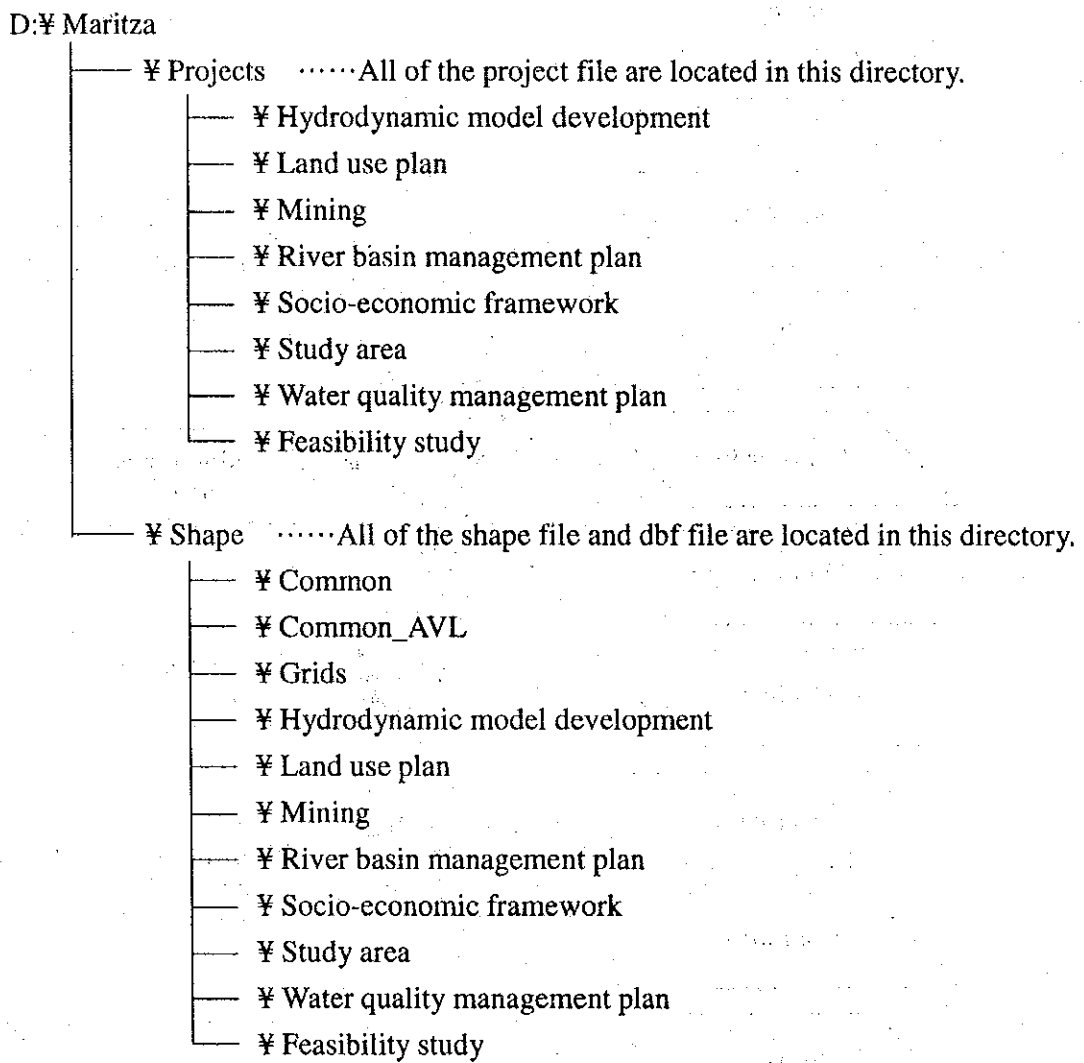
## Database Description



## 6. File Structure of the Maritza GIS Database

The file structure of the Maritza GIS database is designed as shown below.

### 6.1 File Structure



## **6.2 Directory of Project File**

All of the project files are saved in the directory of "Projects". Project file is the key file of GIS database. Project file does not contain the spatial data or attribute data itself. Instead, a project file stores all references to the location of these related data sources (shape file, dbf file) on disk. For example, the shape file called XXX.shp is not saved in the project, but the project does contain a reference to where that shape file is located on disk. In this way, the same data can be used in any number of projects without duplication, and if this data changes, the updates will be reflected in all the projects that reference this data.

## **6.3 Directory of Shape File**

All of the shape files and dbf files are saved in the directory of "Shape". Shape file contains spatial data and dbf file contains attribute data. The directory of "Common" is prepared for shape file that is commonly used in several thematic maps. The directory of "Common\_AVL" is prepared for the legend file that is commonly used in several thematic maps. The directory of "Grids" is prepared for Grid data files. Other directories are prepared based on the chapter of reports.

## **7. Database Description**

Database Description covers information on the structures of data file on the figures listed in reports. Information on Figure No. Title of Figure, Name of Project, Name of View, Name of Data File and Settings of Legend are listed. The file names of shape file and dbf file are same.

Table A.7.1 covers all figures listed for the Main Report, and Table A.7.2 is for the Supporting Report.

## **8. Definition of Attribute**

Definition of Attribute covers all of the fields of each dbf file used in figures of each report (Table A.8.1).

## **9. Additional Data to be linked with the Existing Maritza GIS**

Additional data is text data file to be connected to dbf file of Arcview3.

Following additional files are created and linked dbf file.

- Load\_Town\_final (Point Town Load)
- Load\_Town (Point Town Load)
- Load\_Subbaisn (Pollution load of Subbasin)
- Load\_Livestock (Pollution load of Livestock)
- Water\_Quality (Water quality at hydro station)
- Load\_Top50Inst (Industrial Pollution Load of Top 50)

**TABLE A.7.1 RELATIONSHIP BETWEEN PROJECT FILE AND SHAPE FILE OF THE MAIN REPORT**

**CHAPTER 2 STUDY AREA**

Support	Fig	Title of Figure	Name of Project	Name of View	Shape & Dbf File	On/off	Legend Type	Values Field
	2.1.2	Distribution of Elevation in the Study Area	distribution of elevation.apr	DISTRIBUTION OF ELEVATION IN THE STUDY	/common/Studyarea98 /common/Riv-Basin98 /common/Sub-Basin98 /common/Town98 /common/Railway98 /common/Road98 /common/River98 /common/Lake98 /grids/elevation/Final	on on on on on on on on on	Single Single Single Unique Unique Unique Unique Single Graduated	- - - Dxf_color Dxf_color Dxf_color Code - Value
	2.1.3	River System in the Maritza River Basin	river system.apr	RIVER SYSTEM IN THE MARITZA RIVER BASIN	/common/Studyarea98 /common/Riv-Basin98 /common/Riv-Basin98 /common/River98 /common/Lake98 /common/Riv-Basin98	on on on on on on	Single Single Single Unique Single Single	- - - Dxf_color Code - -
C.1.1	2.1.4	Geological Map for the Maritza River Basin	geological map.apr	GEOLOGICAL MAP FOR THE MARITZA RIVER	/common/Riv-Basin98 /common/Sub-Basin98 /study area/natural condition /Coal_mines /common/Town98 /common/Studyarea98 /study area/natural condition /Fault	on on on on on on on	Single Single Unique Unique Unique Single Unique	- - Dxf_color Dxf_color - - Typeen
J.1.1	2.2.1	Administration Boundary in the Study Area	Administration Boundary in the Study Area.apr	ADMINISTRATION BOUNDARY IN THE STUDY	/study area/water resources/reg_98ce /study area/water resources/mun98 /common/river98 /common/Lake98 /common/Studyarea98 /study area/socio-economy/rei-boundary1 /common/road98 /common/Railway98 /common/Reg_boun98	on on on on on on on on on	Unique Unique Unique Single Single Single Unique Unique Single	Dxf_layer Region Code - - - Dxf_color Dxf_color -
J.1.2	2.2.2	Five Sub-Regions in the Maritza River Basin	five sub-regions.apr	FIVE SUB-REGIONS IN THE MATIRZA RIVER BASIN	/common/Town98 /common/Reg_boun98 /common/Reg_boun98 /common/Reg_boun98 /study area/socio-economic /Sub_Region /study area/socio-economic /Sub_Region /common/Riv-Basin98 /common/Studyarea98 /common/Railway98 /common/Road98 /common/River98 /common/Lake98 /common/Riv-Basin98p	on on off off on on on on on on on on on on on	Unique Single Single Single Single Single Single Single Single Single Unique Unique Unique Unique Single Single	Dxf_color - - - - - - - - - Dxf_color Dxf_color Code Code - -
	2.2.3	Present Land Cover Map Derived from CORIN Database	present land cover map.apr	PRESENT LAND COVER MAP DERIVED FROM CORINE DATABASE	/common/Town98 /common/Studyarea98 /common/Riv-Basin98p /common/Sub-Basin98 /common/River98 /common/Lake98 /study area/socio-economic /Ncorineshp	on on on on on on on	Unique Single Single Single Unique Single Unique	Dxf_color - - - Code - Major_gro u
D.2.1	2.3.1	Observation Network for Meteorology of NIMH	meteorology of nimh.apr	OBSERVATION NETWORK FOR METEOROLOGY OF	/common/Meteo_Station /common/Town98 /common/Studyarea98 /common/Railway98 /common/Road98 /common/River98 /common/Lake98	on off on on on on on	Unique Unique Single Unique Unique Unique Single	Dxf_layer Dxf_color - Dxf_color Dxf_color Code -

**CHAPTER 2 STUDY AREA**

Support	Fig	Title of Figure	Name of Project	Name of View	Shape & Dbf File	On/off	Legend Type	Values Field
D.3.1	2.3.2	Observation Network for Hydrology of NIMH	hydrology of nimh.apr	OBSERVATION NETWORK FOR HYDROLOGY OF	/common/Hydro_Station	on	Unique	Dxf_color
					/common/Town98	on	Unique	Dxf_color
					/common/Studyarea98	on	Single	-
					/common/Road98	on	Unique	Dxf_color
					/common/Railway98	on	Unique	Dxf_color
					/common/Lake98	on	Single	-
					/common/River98	on	Unique	Code
/common/Riv_monit	on	Single	-					
D.4.1	2.3.3	General Meteorological Condition (1063-1995)	meteorological conditon.apr	GENERAL METEOROLOGICAL	/common/Sel_stat	on	Unique	Dxf_layer
					/common/Studyarea98	on	Single	-
					/common/Lake98	on	Single	-
					/common/River98	on	Unique	Code
					/common/Railway98	on	Unique	Dxf_color
					/common/Road98	on	Unique	Dxf_color
D.4.2	2.3.4	Annual Average Precipitations at the Meteorological Station	annual average precipitations.apr	ANNUAL AVERAGE PRECIPITATIONS AT THE METEOROLOGICAL	/study area/meteorology and hydrology/Outer-hydromet	on	Single	-
					/study area/meteorology and hydrology/Outer-hydromet	on	Single	-
					/common/Meteo_Station	on	Unique	Dxf_layer
					/common/Studyarea98	on	Single	-
					/common/Railway98	on	Unique	Dxf_color
					/common/Road98	on	Unique	Dxf_color
					/common/River98	on	Unique	Code
					/common/Lake98	on	Single	-
					D.4.7	2.3.5	Thiessen Polygons Associated with the Representative Stations	thiessen polygons.apr
/study area/meteorology and hydrology/Repre_Station	on	Unique	Dxf_layer					
/study area/meteorology and hydrology/St_poly	on	Single	-					
/common/Lake98	on	Single	-					
/common/River98	on	Unique	Code					
/common/Railway98	on	Unique	Dxf_color					
/common/Road98	on	Unique	Dxf_color					
/study area/meteorology and hydrology/St_poly	off	Single	-					
E.1.1	2.4.1	Major Reservoirs Irrigation Systems and Hydropower Schemes in the Maritza River Basin	major reservoirs irrigation systems and hydropower.apr	Major Reservoirs Irrigation Systems and Hydropower Schemes in the Maritza River Basin				
					/common/res98	on	Single	-
					/common/lak_constr98	on	Single	-
					/common/intak_a98	on	Single	-
					/common/intak1_a98	on	Single	-
					/common/intak2_a98	on	Single	-
					/common/canals98	on	Single	Type_of_c anals
					/common/town98	on	Unique	Dxf_color
					/common/reservoirp98	on	Single	-
					/common/lake98	on	Single	-
					/common/river98	on	Unique	Code
					/conimon/studyarea98	on	Single	-
					/study area/water resources /hpp_pn	on	Single	-
					/study area/water resources /study area/water resources/tpp	on	Unique	Dxf_color
					/study area/water resources /irrigation	on	Single	Code
E.4.1	2.4.2	Natural Surface Water Potential in 1994 and 1995	surface water potential.apr	NATURAL SURFACE WATER POTENTIAL IN 1994	hbound1p99+1	on	Single	-
					hbound1p99+1	on	Unique	Name
					/common/function	on	Unique	Code
					/study area/water resources /Hbound1p99	off	Chart	Pi95
					/common/Studyarea98	on	Single	-
					/common/Riv-Basin98	on	Single	-
					/common/River98	on	Unique	Code
					/common/Lake98	on	Single	-
					/study area/water resources /Hbound1p99	on	Graguated	Pr



CHAPTER 2 STUDY AREA

Support	Fig	Title of Figure	Name of Project	Name of View	Shape & Dbf File	On/off	Legend Type	Values Field
E.5.1	2.4.4	Present Surface Water Balance Based on the Observed Discharge	surface water balance.apr	PRESENT SURFACE WATER BALANCE BASED ON THE PRESERVED DISCHARGE	/common/Box2	on	Single	-
					/common/Box1	on	Single	-
					/common/Junction	on	Unique	Code
					/common/Studyarea98	on	Single	-
					/common/Town98	off	Unique	Dxf_color
					/common/Riv-Basin98	on	Single	-
					/common/Riv-Basin98p	on	Single	-
					/common/River98	on	Unique	Code
E.5.2	2.4.5	Possible Surface Water Balance in the Present Based on the Estimated Water Demand	surface water balance.apr	POSSIBLE SURFACE WATER BALANCE IN THE PRESENT BASED ON THE ESTIMATED WATER	/common/Box2	on	Single	-
					/common/Box1	on	Single	-
					/common/Junction	on	Unique	Code
					/common/Studyarea98	on	Single	-
					/common/Town98	off	Unique	Dxf_color
					/common/Riv-Basin98	on	Single	-
					/common/Riv-Basin98p	on	Single	-
					/common/River98	on	Unique	Code
C.3.1	2.5.1	Groundwater Monitoring Stations of Ncesd and NIMH	groundwater monitoring stations.apr	GROUNDWATER MONITORING STATIONS DATA FROM NCESD AND	/study area/waterquality and pollution source/Gw_NCESD	on	Single	-
					/common/Gw_NIMH1	off	Single	-
					/study area/waterquality and pollution source/Gw_NIMH2	off	Unique	code
					/study area/waterquality and pollution source/Gw_NCESD	off	Single	-
					/common/Town98	on	Unique	Dxf_color
					/common/River98	on	Unique	Code
					/common/Lake98	on	Single	-
					/common/Sub-Basin98	on	Single	-
					/common/Studyarea98	on	Single	-
					/study area/socio-economic	on	Unique	Type
					/Devastated land	on	Unique	Type
C.3.2	2.5.2	MONITORING SYSTEM BY MOEW	monitoring system by moew.apr	MONITORING SYSTEM BY MOEW	/common/Studyarea98	on	Single	-
					/common/Riv-Basin98	on	Single	-
					/study area/natural condition	on	Unique	Dxf_layer
					/Well	on	Unique	Dxf_layer
					/common/Lake98	on	Single	-
					/common/Town98	on	Unique	Dxf_layer
					/common/River98	on	Unique	Code
					/study area/natural condition	off	Single	-
C.3.3	2.5.3	Hydrogeological Map	Hydrogeological map.apr	HYDROGEOLOGICAL MAP	/Gw_Contour	on	Single	-
					/common/Studyarea98	on	Single	-
					/common/Lake98	on	Single	-
					/common/Town98	on	Unique	Dxf_layer
					/common/River98	on	Unique	Code
					/common/Road98	on	Unique	Dxf_color
					/common/River98	on	Unique	Code
					/study area/natural condition/transmissivity	off	Unique	color
/study area/natural condition/transmissivity-af	on	Unique	color					
G.2.1	2.6.1	Updated Monitoring System of NCESD	updated monitoring system of ncesd.apr	UPDATED MONITORING SYSTEM OF NCESD	/common/Studyarea98	on	Single	-
					/common/Town98	on	Unique	Priority_0
					/common/Railway98	off	Unique	Dxf_color
					/common/Road98	off	Unique	Dxf_color
					/common/River98	on	Unique	Code
					/common/Lake98	on	Single	-
					/common/Hydro_Station	on	Unique	Update
G.2.2	2.6.2	Seasonal Water Quality of BOD in 1994 - 1996	seasonal water quaity.apr	SEASONAL WATER QUALITY OF BOD 1-3(75%)	/common/Studyarea98	on	Single	-
					/common/Town98	on	Unique	Dxf_color
					/common/Railway98	on	Unique	Dxf_color
					/common/Road98	on	Unique	Dxf_color
					/study area/socio-economic	on	Unique	BOD1-75
					/Waterquality	on	Unique	Code
				/common/River98	on	Unique	Code	
				/common/Lake98	on	Single	-	
				SEASONAL WATER QUALITY OF BOD10-	/common/Studyarea98	on	Single	-
					/common/Town98	on	Unique	Dxf_color
					/common/Railway98	on	Unique	Dxf_color
					/common/Road98	on	Unique	Dxf_color
				SEASONAL WATER QUALITY OF BOD4-6(75%)	/study area/socio-economic	on	Unique	BOD10-75
/Waterquality	on	Unique	Code					
/common/River98	on	Unique	Code					
/common/Lake98	on	Single	-					
SEASONAL WATER QUALITY OF BOD4-6(75%)	/common/Studyarea98	on	Single	-				
	/common/Town98	on	Unique	Dxf_color				

CHAPTER 2 STUDY AREA

Support	Fig	Title of Figure	Name of Project	Name of View	Shape & Dbf File	On/off	Legend Type	Values Field
					/common/Railway98	on	Unique	Dxf_color
					/common/Road98	on	Unique	Dxf_color
					/study area/socio-economic	on	Unique	BOD4-75
					/Waterquality	on	Unique	Code
					/common/River98	on	Single	-
					/common/Lake98	on	Single	-
				SEASONAL WATER QUALITY OF BOD7-9(75%)	/common/Studyarea98	on	Single	-
					/common/Town98	on	Unique	Dxf_color
					/common/Railway98	on	Unique	Dxf_color
					/common/Road98	on	Unique	Dxf_color
					/study area/socio-economic	on	Unique	BOD7-75
					/Waterquality	on	Unique	Code
					/common/River98	on	Unique	-
					/common/Lake98	on	Single	-
G.2.3	2.6.3	Seasonal Water Quality of NH4 in 1994 - 1996	seasonal water quality.apr	SEASONAL WATER QUALITY OF NH41-3(75%)	/common/Studyarea98	on	Single	-
					/common/Town98	on	Unique	Dxf_color
					/common/Railway98	on	Unique	Dxf_color
					/common/Road98	on	Unique	Dxf_color
					/study area/socio-economic	on	Unique	Nh1_75
					/Waterquality	on	Unique	Code
					/common/River98	on	Unique	-
					/common/Lake98	on	Single	-
				SEASONAL WATER QUALITY OF NH4 10-	/common/Studyarea98	on	Single	-
					/common/Town98	on	Unique	Dxf_color
					/common/Railway98	on	Unique	Dxf_color
					/common/Road98	on	Unique	Dxf_color
					/study area/socio-economic	on	Unique	Nh10_75
					/Waterquality	on	Unique	Code
					/common/River98	on	Unique	-
					/common/Lake98	on	Single	-
				SEASONAL WATER QUALITY OF NH4 4-6(75%)	/common/Studyarea98	on	Single	-
					/common/Town98	on	Unique	Dxf_color
					/common/Railway98	on	Unique	Dxf_color
					/common/Road98	on	Unique	Dxf_color
					/study area/socio-economic	on	Unique	Nh4_75
					/Waterquality	on	Unique	Code
					/common/River98	on	Unique	-
					/common/Lake98	on	Single	-
				SEASONAL WATER QUALITY OF NH4 7-9(75%)	/common/Studyarea98	on	Single	-
					/common/Town98	on	Unique	Dxf_color
					/common/Railway98	on	Unique	Dxf_color
					/common/Road98	on	Unique	Dxf_color
					/study area/socio-economic	on	Unique	Nh7_75
					/Waterquality	on	Unique	Code
					/common/River98	on	Unique	-
					/common/Lake98	on	Single	-
G.2.4	2.6.4	Seasonal Water Quality of NO3 in 1994 - 1996	seasonal water quality.apr	SEASONAL WATER QUALITY OF NO3 1-3(75%)	/common/Studyarea98	on	Single	-
					/common/Town98	on	Unique	Dxf_color
					/common/Railway98	on	Unique	Dxf_color
					/common/Road98	on	Unique	Dxf_color
					/study area/socio-economic	on	Unique	No1_75
					/Waterquality	on	Unique	Code
					/common/River98	on	Unique	-
					/common/Lake98	on	Single	-
				SEASONAL WATER QUALITY OF NO3 10-	/common/Studyarea98	on	Single	-
					/common/Town98	on	Unique	Dxf_color
					/common/Railway98	on	Unique	Dxf_color
					/common/Road98	on	Unique	Dxf_color
					/study area/socio-economic	on	Unique	No10_75
					/Waterquality	on	Unique	Code
					/common/River98	on	Unique	-
					/common/Lake98	on	Single	-
				SEASONAL WATER QUALITY OF NO3 4-6(75%)	/common/Studyarea98	on	Single	-
					/common/Town98	on	Unique	Dxf_color
					/common/Railway98	on	Unique	Dxf_color
					/common/Road98	on	Unique	Dxf_color
					/study area/socio-economic	on	Unique	No_75
					/Waterquality	on	Unique	Code
					/common/River98	on	Unique	-
					/common/Lake98	on	Single	-
				SEASONAL WATER QUALITY OF NO3 7-9(75%)	/common/Studyarea98	on	Single	-
					/common/Town98	on	Unique	Dxf_color
					/common/Railway98	on	Unique	Dxf_color
					/common/Road98	on	Unique	Dxf_color
					/study area/socio-economic	on	Unique	No_75
					/Waterquality	on	Unique	Code
					/common/River98	on	Unique	-
					/common/Lake98	on	Single	-

**CHAPTER 2 STUDY AREA**

Support	Fig	Title of Figure	Name of Project	Name of View	Shape & Dbf File	On/off	Legend Type	Values Field					
G.2.10	2.6.5	Biological Assessment of Water Quality in 1996 - 1997	biological assessment.apr	BIOLOGICAL ASSESSMENT OF WATERQUALITY IN	/common/Studyarea98	on	Single	-					
					/common/Town98	on	Unique	Dxf_color					
					/common/Lake98	on	Single	-					
					/common/River98	on	Unique	Code					
					/common/riv-basin98p	on	Single	-					
					/common/Railway98	on	Unique	Dxf_color					
					/common/riv-basin98	on	Single	-					
					/common/Road98	on	Unique	Dxf_color					
					/common/sub-basin98p	on	Single	-					
					/common/sub-basin98	on	Single	-					
					/hydrodynamic model development/bio-buffer	on	Unique	Color					
G.3.5	2.6.8	BOD Load by Pollution Source	bod load by pollution	BOD (Total)	/common/Town98	on	Unique	Dxf_color					
					/common/Studyarea98	on	Single	-					
					/common/Riv-Basin98	on	Single	-					
					/common/Town98	off	Single	-					
					/common/Railway98	on	Unique	Dxf_color					
					/common/Road98	on	Unique	Dxf_color					
					/common/River98	on	Unique	Code					
					/common/Lake98	on	Single	-					
					/common/Sub-Basin98p	on	Graduated	Total bod					
					BOD (Domestic)	/common/Town98	on	Unique	Dxf_color				
						/common/Studyarea98	on	Single	-				
				/common/Riv-Basin98		on	Single	-					
				/common/Town98		off	Single	-					
				/common/Railway98		on	Unique	Dxf_color					
				/common/Road98		on	Unique	Dxf_color					
				/common/River98		on	Unique	Code					
				BOD (Industry)	/common/Lake98	on	Single	-					
					/common/Sub-Basin98p	on	Graduated	Domes_bo d					
					/common/Town98	on	Unique	Dxf_color					
					/common/Studyarea98	on	Single	-					
					/common/Riv-Basin98	on	Single	-					
					/common/Town98	off	Single	-					
					/common/Railway98	on	Unique	Dxf_color					
				BOD (Livestock)	/common/Road98	on	Unique	Dxf_color					
					/common/River98	on	Unique	Code					
					/common/Lake98	on	Single	-					
					/common/Sub-Basin98p	on	Graduated	Ind_bod					
					/common/Town98	on	Unique	Dxf_color					
/common/Studyarea98	on	Single	-										
/common/Riv-Basin98	on	Single	-										
-	2.6.10	Location of Mining	location of mining.apr	LOCATION OF MINING2	/common/Studyarea98	on	Single	-					
					/common/Town98	on	Unique	Dxf_color					
					/common/Au_lines	on	Single	-					
					/common/Minepoint	on	Unique	Mine_all					
					K.3.1	2.7.1	Environmental Protection Area to be Considered	Environmental Protection Area.apr	ENVIRONMENTAL POTENTION AREA TO BE	/study area/natural condition/set_sour	on	Unique	Dxf_layer
										/study area/natural condition/wetlands	on	Unique	Code
										/common/studyarea98	on	Single	-
										/common/River98	on	Unique	Code
										/common/Lake98	on	Single	-
										/common/Town98	on	Unique	Dxf_color
										/common/road98	on	Unique	Dxf_color
H.2.2	2.8.1	Towns with Sewerage Systems	Towns with sewerage system.apr	TOWNS WITH SEWERAGE SYSTEM	/common/studyarea98	on	Single	-					
					/common/River98	on	Unique	Code					
					/common/lake98	on	Single	-					
					/common/Town98	on	Unique	SEWERAGE					
					/common/sewerage	on	Single	-					

CHAPTER 3 MASTER PLAN

Support	Fig	Title of Figure	Name of Project	Name of View	Shape & Dbf File	On/off	Legend Type	Values Field
	3.3.1	Landuse Zoning Map	landuse zoning map.apr	LANDUSE ZONING MAP	/common/Studyarea98 /common/Town98 /common/Elev250m /common/Riv-Basin98 /common/Sub-Basin98 /land use plan/Protect /land use plan/Erosion /common/River98 /common/Lake98 /land use plan/Mcitybuff /land use plan/Buf1 /land use plan/Buf2 /land use plan/Buf3 /land use plan/Protect2 /land use plan/Landuse /common/Riv-Basin98	on on on on on on on on on on on on on on on on on on	Single Unique Unique Single Single Unique Unique Unique Single Single Single Single Unique Unique Single	- Dxf_color Contour - - Name Color Code - - - - - Protected Lcmen -
G.4.2	3.4.2	Zoning and Priority Town	zoning and priority town.apr	ZONING AND PRIORITY	/common/Studyarea98 /water quality management plan /Priorityline /common/Town98 /common/Riv-Basin98 /common/Sub-Basin98 /common/River98 /common/Lake98 /mining/Hbound2p98 /common/Riv-Basin98p /water quality management plan /Priority2 /water quality management plan /Priority	on off on on off on on off on on on on	Single Single Unique Single Single Unique Single Single Single Single Single Single	- - Priority 2 - - Code - - - - - -
G.4.5	3.4.5	New or Extended Treatment Works of National Plan in 1989	treatment works.apr	NEW OR EXTENDED TREATMENTWORKS OF NATIONAL PLAN IN 1989	/common/Studyarea98 /common/Town98 /common/Town98 /common/Riv-Basin98 /common/Riv-Basin98 /common/Sub-Basin98 /common/Railway98 /common/Road98 /common/River98 /common/Lake98 /common/Riv-Basin98p /mining/Hbound2p	on on on off off off off on on on on off	Single Unique Unique Single Single Single Unique Unique Unique Single Single Single	- Priority_o Dxf_color - - - Dxf_color Dxf_color Code - - -
G.4.7	3.4.6	Proposed Monitoring System	proposed monitoring system.apr	PROPOSED MONITORING SYSTEM	/common/Studyarea98 /common/Hydro_Station /common/Town98 /common/Road98 /common/Railway98 /common/Lake98 /common/River98	on on on on on on on	Single Unique Unique Unique Unique Single Unique	- STATION Dxf_color Dxf_color Dxf_color Code -
G.3.7	3.4.7	LOCATION OF TOP 20 INDUSTRYIES IN TERMS OF POLLUTION LOAD	industry.apr	INDUSTRY	/common/Studyarea98 /common/Town98 /common/Lake98 /common/River98 /common/Railway98 /common/Road98 /common/Industry	on on on on on on on	Single Unique Single Unique Unique Unique Unique	- Dxf_color Code Dxf_color Dxf_color Dxf_color Number
B.6.1	3.5.1	Possible Surface Water Balance in 2015 (Case1) Based on the Estimated Water Demand	surface water balance.apr	POSSIBLE SURFACE WATER BALANCE IN 2015 (CASE1) ON THE ESTIMATED WATER	/common/Box2 /common/Box1 /common/Junction /common/Studyarea98 /common/Town98 /common/Riv-Basin98 /common/Riv-Basin98p /common/River98 /common/Lake98	on on on on off on on on on on	Single Single Unique Single Unique Single Single Unique Single	- - Code - Dxf_color - - Code -
E.6.2	3.5.2	Zoning Water Resources Management	water resource management.apr	ZONING FOR WATER RESOURCES	/common/Town98 /common/Riv-Basin98p /common/Studyarea98 /common/Intak_a98 /common/Intak2_a98 /common/Intak1_a98 /common/Lake98 /common/River98 /common/Irraddpoly97 /common/Irrig97	on on on on on on on on on on	Unique Single Single Single Single Single Single Unique Single Single	Dxf_color - - - - - Code -
E.6.4	3.5.3	Strengthening of Monitoring Network for Meteorology	strengthening for meteorology.apr	STRENGTHENING OF MONITORING NETWORK FOR METEOROLOGY	/common/Meteo_Station	on	Unique	Code3

**CHAPTER 3 MASTER PLAN**

Support	Fig	Title of Figure	Name of Project	Name of View	Shape & Dbf File	On/off	Legend Type	Values Field
					/common/Meteo_Station /common/Studyarea98 /common/Lake98 /common/River98 /common/Railway98 /common/Road98	on on on on on on	Unique Single Single Unique Unique Unique	C de2 - - Code Dxf_color Dxf_color
E.6.5	3.5.4	Strengthening of Monitoring Network for Hydrology	strengthening for hydrology.apr	STRENGTHENING OF MONITORING NETWORK FOR HYDROLOGY	/common/Hydro_Station /common/Hydro_Station /common/Hydro_Station /common/Studyarea98	on off on on	Unique Unique Unique Single	Code Code Code -
E.6.6	3.5.5	Proposed Monitoring Stations for River Basin Management	proposed monitoring stations.apr	PROPOSED MONITORING STATIONS FOR RIVER BASIN MANAGEMENT	/river basin management plan /Wt-dispnt /river basin management plan /Wt-discan /river basin management plan /Dismetst /river basin management plan /Wtevres /river basin management plan /Ant_weir /common/Studyarea98 /common/Town98 /common/Intak_a98 /common/Intak1_a98 /common/Intak2_a98 /common/Canals98 /common/Reservoirp98 /common/Res98 /common/Lak_consir98 /common/Lake98 /common/River98 /river basin management plan /Irr98 /common/Irraddpoly97	on on	Single Single Single Single Single Single Unique Unique Single Single Unique Unique Single Single Single Single Single Single Single Single Single Single Single	- - - - - - MAIN CITY - - Dxf_color Dxf_color - - - - - Code - - -
E.6.7	3.5.6	Areas for Forest Conservation and Reforestation for Water Resources	areas for forest & reforestation.apr	AREAS FOR FOREST CONSERVATION AND REFORESTATION FOR WATER RESOURCES	/common/Studyarea98 /river basin management plan /Forcstlabel /common/Town98 /river basin management plan /Waterresource /common/Intak_a98 /common/Intak1_a98 /common/Intak2_a98 /common/River98 /common/Lake98 /common/Irrig97 /common/Irraddpoly97 /river basin management plan /Class3 /river basin management plan /Class1 /river basin management plan /Class2	on on on on off off off on on off off on on on on on on on on on on	Single Single Unique Single Single Single Single Unique Single Single Single Single Unique Unique Unique Unique Unique Unique Unique Unique Unique Unique	- - Dxf_color - - - - Code - - - - Gridcode Gridcode Gridcode -
E.4.1	3.9.1	River Network for Hydrodynamic Modeling	river network.apr	RIVER NETWORK FOR HYDRODYNAMIC	/common/Studyarea98 /common/Hydro_Station /hydrodynamic model development/Mad_node /common/Sub-Basin98 /hydrodynamic model development/Mainbranch /common/Town98 /common/Riv-Basin98 /common/Riv-Basin98p /common/Lake98 /common/River98 /common/Sub-Basin98p	on on on on on on on on on on on off	Single Unique Unique Single Single Unique Unique Unique Single Single Single Single Single	- Calibration Id - - Class - - - Code Code -
L.5.1	3.9.2	Sub-Basins of the Maritza River System (Detailed)	sub-basins.apr	SUB-BASINS OF THE MARITZA RIVER SYSTEM	/common/Studyarea98 /common/Town98 /common/Riv-Basin98 /common/Riv-Basin98 /common/Sub-Basin98 /common/Riv-Basin98 /common/Riv-Basin98 /common/Sub-Basin98 /common/Riv-Basin98p /common/River98 /common/Lake98 /common/Railway98 /common/Road98	on on on on on on on on on on on on off off	Single Unique Single Single Single Single Single Single Single Single Unique Single Unique Unique Unique	- Dxf_color - - - - - - Code Code - - Dxf_color Dxf_color

CHAPTER 4 FEASIBILITY STUDY

Support	Fig	Title of Figure	Name of Project	Name of View	Shape & Dbf File	On/off	Legend Type	Values Field
-	4.1.1	Feasibility Study Town of Pazardjik and Surroundings	basemap 25000.apr	Pazardjik 25000	/feasibility study/25000map/P_town25000	on	Single	-
					/feasibility study/25000map/P_river	on	Single	-
					/feasibility study/25000map/P_river25000line	on	Unique	Dxf_layer
					/common/lake98	on	Single	-
					/feasibility study/25000map/P_road25000	on	Unique	Class II
					/feasibility study/25000map/P_roads	on	Single	-
					/common/riv-basin98	on	Single	-
					/common/sub-basin98	on	Single	-
					-	4.1.2	Feasibility Study Town of Dimitrovgrad and Surroundings	basemap 25000.apr
/feasibility study/25000map/sd_river25000	on	Single	-					
/feasibility study/25000map/sd_river25000line	on	Unique	Dxf_layer					
/common/lake98	on	Single	-					
/feasibility study/25000map/sd_road25000	on	Unique	Class II					
/feasibility study/25000map/sd_roads	on	Single	-					
/common/riv-basin98	on	Single	-					
/common/sub-basin98	on	Single	-					
-	4.1.3	Feasibility Study Town of Stara Zagora and Surroundings	basemap 25000.apr	Stara Zagora 25000				
					/feasibility study/25000map/sd_river25000	on	Single	-
					/feasibility study/25000map/sd_river25000line	on	Unique	Dxf_layer
					/common/lake98	on	Single	-
					/feasibility study/25000map/sd_road25000	on	Unique	Class II
					/feasibility study/25000map/sd_roads	on	Single	-
					/common/riv-basin98	on	Single	-
					/common/sub-basin98	on	Single	-
					-	4.2.1	Sensitive Area of Natural Environment around Pazardjik	environmental protection area.apr
/feasibility study/25000map/P_river25000	on	Single	-					
/feasibility study/25000map/P_river25000line	on	Unique	Dxf_layer					
/common/Railway98	on	Single	-					
/feasibility study/25000map/P_road25000	on	Single	-					
/common/riv-basin98	on	Single	-					
/land use plan/landuse/major_gu	on	Unique	major_gu					
/land use plan/important_wetland	on	Single	-					
/land use plan/protect-line	on	Unique	type					
-	4.2.2	Sensitive Area of Natural Environment around	environmental protection area.apr	Dimitrovgrad	/feasibility study/25000map/sd_town25000	on	Single	-
					/feasibility study/25000map/sd_river25000	on	Single	-
					/feasibility study/25000map/sd_river25000line	on	Unique	Dxf_layer
					/common/Railway98	on	Single	-
					/feasibility study/25000map/sd_road25000	on	Single	-
					/common/riv-basin98	on	Single	-
					/land use plan/landuse/major_gu	on	Unique	major_gu
					/land use plan/important_wetland	on	Single	-
					/land use plan/protect-line	on	Unique	type
/land use plan/wetlands	on	Single	-					

**CHAPTER 4 FEASIBILITY STUDY**

Support	Fig	Title of Figure	Name of Project	Name of View	Shape & Dxf File	On/off	Legend Type	Values Field
	4.2.3	Sensitive Area of Natural Environment around Stara	environmental protection area.apr	Stara Zagora	/feasibility study/25000map	on	Single	-
					/sd_town25000	on	Single	-
					/feasibility study/25000map	on	Single	-
					/sd_river25000	on	Unique	Dxf_layer
					/feasibility study/25000map	on	Single	-
					/sd_river25000line	on	Single	-
					/common/Railway98	on	Single	-
					/feasibility study/25000map	on	Single	-
/sd_road25000	on	Single	-					
/common/riv-basin98	on	Single	-					
/land use plan/landuse	on	Unique	major_gro					
/land use plan/wetlands	on	Single	-					
	4.2.4	Location of Mining and Top 20 Industries, and Soil Contamination around	mining.apr	Pazardjik	/feasibility study/25000map	on	Single	-
					/P_town25000	on	Single	-
					/feasibility study/25000map/industry	on	Single	-
					/common/town98	on	Single	Dxf_color
					/common/studyarea98	on	Single	-
					/common/lake98	on	Single	-
					/common/river98	on	Unique	Code
					/common/riv_basin98p	on	Single	-
					/common/riv_basin98	on	Single	-
					/common/road98	on	Single	-
					/common/canals98	on	Unique	type_of_ca
					/common/water intake facility	on	Single	-
					/common/au_lines	on	Single	-
					/common/minepoint	on	Unique	mine_ar
					/mining/p_detail mine	on	Unique	type
					/mining/minepoly	on	Unique	For_region map
/land use plan/pird_cont	on	Single	-					
/land use plan/htm_cont	on	Single	-					
/land use plan/topol_cont	on	Single	-					
	4.2.5	Location of Mining and Top 20 Industries around Stara Zagora and Dimitrovgrad	mining.apr	Stara Zagora and Dimitrovgrad	/feasibility study/25000map	on	Single	-
					/sd_town25000	on	Single	-
					/feasibility study/25000map/industry	on	Single	-
					/common/town98	on	Unique	Dxf_color
					/common/studyarea98	on	Single	-
					/common/lake98	on	Single	-
					/common/river98	on	Single	-
					/feasibility study/25000map	on	Unique	mining
					/sd_road25000	on	Single	-
					/common/riv_basin98	on	Single	-
					/common/road98	on	Single	-
					/common/minepoint	on	Unique	mine_ar
/mining/open mining area	on	Single	-					
/mining/minepoly	on	Unique	For_region map					
	4.2.6	Irrigation Area and River Intakes around Pazardjik	major reservoirs irrigation systems and hydropower.apr	Pazardjik	/common/lake98	on	Single	-
					/common/river98	on	Unique	Code
					/common/riv_basin98p	on	Single	-
					/common/riv_basin98	on	Unique	Type
					/common/road98	on	Single	-
					/study area/water resources/dam	on	Unique	Dxf_color
					/study area/water resources	on	Single	-
					/Hpp_pa	on	Single	-
					/common/p_irrigation	on	Unique	Code
					/common/canals98	on	Unique	Type_of_c
					/feasibility study/25000map	on	Single	-
					/p_town25000	on	Single	-
					/common/irrig-buffer-line	on	Single	-
/common/irrig-bufer	on	Unique	NewField					
/common/scheme98line	on	Single	-					
/common/res98	on	Single	-					
/common/intak1_a98	on	Single	-					

**CHAPTER 4 FEASIBILITY STUDY**

Support	Fig	Title of Figure	Name of Project	Name of View	Shape & Dbf File	On/off	Legend Type	Values Field
	4.2.7	Irrigation Area and River Intakes around Dimitrovgrad	major reservoirs irrigation systems and hydropower.apr	Dimitrovgrad	/common/lake98	on	Single	-
					/common/river98	on	Unique	Code
					/common/riv_basin98p	on	Single	-
					/common/riv_basin98	on	Unique	Type
					/common/road98	on	Single	-
					/study area/water resources/dam	on	Unique	Dxf_color
					/study area/water resources/hpp	on	Single	-
					/study area/water resources/irrigation	on	Unique	Type
					/common/canals98	on	Unique	Type_of_canal
					/feasibility study/25000map /sd_town25000	on	Single	-
	4.2.8	Irrigation Area and River Intakes around Stara Zagora	major reservoirs irrigation systems and hydropower.apr	Stara Zagora	/common/lake98	on	Single	-
					/common/intak2_a98	on	Single	-
					/common/riv_basin98p	on	Single	-
					/common/riv_basin98	on	Unique	Type
					/common/road98	on	Single	-
					/study area/water resources/hpp_pn	on	Single	-
					/feasibility study/25000map /sd_river25000line	on	Unique	Dxf_layer
					/study area/water resources/irrigation	on	Unique	Code
					/common/canals98	on	Unique	Type_of_canal
					/feasibility study/25000map /sd_town25000	on	Single	-
					/study area/water resources/irrigation	on	Unique	Type
					/common/lak_conste98	on	Single	-
					H.2.3	4.2.10	Main Collectors of Sewerage and Industries in Pazardjik	sewerage problem map.apr
/feasibility study/25000map /p_road25000	on	Unique	-					
/feasibility study/25000map /p_river25000line	on	Single	-					
/feasibility study/25000map /p_town25000	on	Single	-					
/feasibility study/10000map /p_town10000	on	Single	-					
/feasibility study/10000map /p_rroads	on	Single	-					
/feasibility study/10000map /p_road10000	on	Single	-					
/feasibility study/10000map /p_river10000line	on	Single	-					
/feasibility study/10000map /p_river10000	on	Single	-					
/feasibility study/10000map /s_sewerage overflow.shp	on	Single	-					
/feasibility study/10000map /s_sewerage overflow line.shp	on	Single	-					
/feasibility study/10000map /p_sewerage system	on	Unique	Sewerage_s					





**CHAPTER 4 FEASIBILITY STUDY**

Support	Fig	Title of Figure	Name of Project	Name of View	Shape & Dbf File	On/off	Legend Type	Values Field
	4.2.14	Problematic Location of Sewerage Network in	sewerage problem map.apr	Dimitrovgrad S.System	/feasibility study/25000map	on	Unique	For overla
					/sd_road25000	on	Unique	Only_for_
					/feasibility study/25000map	on	Unique	Only_for_
					/d_road25000	on	Unique	O
					/feasibility study/25000map	on	Unique	
					/d_river25000line	on	Unique	
					/feasibility study/25000map	on	Single	-
					/sd_town25000	on	Single	-
					/feasibility study/10000map	on	Single	-
					/d_town10000	on	Single	-
					/feasibility study/10000map	on	Single	-
					/d_road10000	on	Single	-
					/feasibility study/10000map	on	Single	-
					/d_road10000	on	Single	-
					/feasibility study/10000map	on	Unique	Type
/d_river10000line	on	Unique						
/feasibility study/10000map	on	Single	-					
/d_river10000	on	Single	-					
/feasibility study/10000map	on	Unique	Sewerage system					
/d_sewerage system	on	Unique						
/feasibility study/10000map	on	Single	-					
/d_sewerage overflow	on	Single	-					
/feasibility study/10000map	on	Single	-					
/d_sewerage overflow line	on	Single	-					
	4.2.15	Problematic Location of Sewerage Network in Stara	sewerage problem map.apr	Stara Zagora S.System	/feasibility study/25000map	on	Unique	FOR OVERLA
					/sd_road25000	on	Unique	only for
					/feasibility study/25000map	on	Unique	regend
					/s_road25000	on	Single	10000
					/feasibility study/25000map	on	Single	-
					/s_river25000line	on	Single	-
					/feasibility study/25000map	on	Single	-
					/sd_town25000	on	Single	-
					/feasibility study/10000map	on	Single	-
					/st_town10000	on	Single	-
					/feasibility study/10000map	on	Single	-
					/st_road10000	on	Single	-
					/feasibility study/10000map	on	Single	-
					/st_road10000	on	Single	-
					/feasibility study/10000map	on	Single	-
/st_river10000	on	Single	-					
/feasibility study/25000map	on	Single	-					
/s_town25000	on	Single	-					
/feasibility study/10000map	on	Single	-					
/st_sewerage system	on	Single	-					
/feasibility study/10000map	on	Single	-					
/s_sewerage overflow	on	Single	-					
/feasibility study/10000map	on	Unique	Sewerage..					
/s_sewerage overflow line	on	Unique	s					

**TABLE A.7.2 RELATIONSHIP BETWEEN PROJECT FILE  
AND SHAPE FILE OF THE SUPPORTING REPORT**

**SUPPORTING REPORT B LAND USE**

Final	Support	Title of Figure	Name of Project	Name of View	Shape & Dbf File	On/off	Legend Type	Values Field
-	B.1.1	VEGETATION MAP	vegetation map.apr	VEGETATION MAP	/common/Studyarea98	on	Single	-
					/common/Town98	on	Unique	Dxf_color
					/common/Elev250m	on	Unique	Contour
					/common/River98	on	Unique	Code
					/common/Lake98	on	Single	-
					/study area/land use/Vegetation	on	Unique	Value
					/common/Riv-Basin98p	off	Single	-

**SUPPORTING REPORT C HYDRO-GEOLOGY**

Final	Support	Title of Figure	Name of Project	Name of View	Shape & Dbf File	On/off	Legend Type	Values Field
2.1.4	C.1.1	Geological Map for the Maritza River Basin	geological map.apr	GEOLOGICAL MAP FOR THE MARITZA RIVER	/common/Riv-Basin98 /common/Sub-Basin98 /study area/natural condition /Coal_mines /common/Town98 /common/Studyarea98 /study area/natural condition /Fault	on on on on on on on	Single Single Unique Unique Single Unique	- - Dxf_color Dxf_color - - Typeen
-	C.2.1	Distributon of Specific Yield	distribution of specific yield.apr	DISTRIBUTION OF SPECIFIC YIELD	/study area/natural condition/gr_wt /study area/natural condition/gr_wt2 /common/Town98 /common/Studyarea98 /common/Railway98 /common/Road98 /common/River98 /common/Lake98 /common/Sub-Basin98 /study area/natural condition/distri_af	on on on on on on on on on	Unique Unique Unique Single Unique Unique Unique Single Single Unique	Dxf_layer Dxf_layer Dxf_color - Dxf_color Dxf_color Code - - color
2.5.1	C.3.1	Groundwater Monitoring Statons of Ncesd and NIMH	polluted groundwater stations.apr	POLLUTED GROUNDWATER MONITARING STATIONS DATA FROM NCESD AND	/study area/waterquality and pollution source/Gw_NCESD /common/Gw_NIMH1 /study area/waterquality and pollution source/Gw_NIMH2 /study area/waterquality and pollution source/Gw_NCESD /common/Town98 /common/River98 /common/Lake98 /common/Sub-Basin98 /common/Studyarea98 /study area/socio-economic /Devastated land /common/Riv-Basin98	on off off off on on on on on on on	Unique Unique Single Single Unique Unique Single Single Single Unique Single	So4_po4 Type - - Dxf_color Code - - - Type -
2.5.2	C.3.2	MONITORING SYSTEM BY MOEW	monitoring system by moew.apr	MONITORING SYSTEM BY MOEW	/common/Studyarea98 /common/Riv-Basin98 /study area/natural condition /Well /common/Lake98 /common/Town98 /common/River98 /study area/natural condition /Gw_Contour /common/Riv-Basin98	on on on on on on on on on	Single Single Unique Single Unique Unique Unique Single Single	- - Dxf_layer - Dxf_layer Code - - -
2.5.3	C.3.3	Hydrogeological Map	Hydrogeological map.apr	HYDROGEOLOGICAL MAP	/common/Studyarea98 /common/Lake98 /common/Town98 /common/River98 /common/Road98 /common/River98 /study area/natural condition/transmissivity /study area/natural condition/transmissivity-af	on on on on on on off on	Single Single Unique Unique Unique Unique Unique Unique	- - Dxf_layer Code Dxf_color Code color color
-	C.3.4	Distributon of Groundwater Tat	distribution of groundwater table.apr	DISTRIBUTION OF GROUNDWATER TABLE	/study area/natural condition/gr_wt /study area/natural condition/gr_wt2 /study area/natural condition/Gwatert /study area/natural condition/Gwatert /common/Town98 /common/Studyarea98 /common/Railway98 /common/Road98 /common/River98 /common/Lake98	on on on on on on on on on on	Unique Unique Unique Single Unique Single Unique Unique Unique Single	Dxf_layer Dxf_layer Elevation - Dxf_color - Dxf_color Dxf_color Code -

**SUPPORTING REPORT D METEOROLOGY AND HYDROLOGY**

Final	Support	Title of Figure	Name of Project	Name of View	Shape & Dbf File	On/off	Legend Type	Values Field
2.3.1	D.2.1	Observation Network for Meteorology of NIMH	meteorology of nimh.apr	OBSERVATION NETWORK FOR METEOROLOGY OF	/common/Meteo_Station	on	Unique	Dxf_layer
					/common/Town98	off	Unique	Dxf_color
					/common/Studyarea98	on	Single	-
					/common/Railway98	on	Unique	Dxf_color
					/common/Road98	on	Unique	Dxf_color
					/common/River98	on	Unique	Code
/common/Lake98	on	Single	-					
2.3.2	D.3.1	Observation Network for Hydrology of NIMH	hydrology of nimh.apr	OBSERVATION NETWORK FOR HYDROLOGY OF	/common/Hydro_Station	on	Unique	Dxf_color
					/common/Town98	on	Unique	Dxf_color
					/common/Studyarea98	on	Single	-
					/common/Road98	on	Unique	Dxf_color
					/common/Railway98	on	Unique	Dxf_color
					/common/Lake98	on	Single	-
					/common/River98	on	Unique	Code
					/common/Rlv_monit	on	Single	-
2.2.3	D.4.1	General Meteorological Condition(1963-1995)	Meteorological Condition.apr	GENERAL METEOROLOGICAL CONDITION(1963-19959	/common/Town98	on	Unique	Dxf_color
					/common/Studyarea98	on	Single	-
					/common/Road98	on	Unique	Dxf_color
					/common/Railway98	on	Unique	Dxf_color
					/common/Lake98	on	Single	-
					/common/River98	on	Unique	Code
					/common/Sel_stat	on	Single	-
2.3.4	D.4.2	Annual Average Precipitation at the Meteorological Station	annual average precipitations.apr	ANNUAL AVERAGE PRECIPITATIONS AT THE METEOROLOGICAL	/study area/meteorology and hydrology/Outer-hydromet	on	Single	-
					/study area/meteorology and hydrology/Outer-hydromet	on	Single	-
					/common/Meteo_Station	on	Unique	Dxf_layer
					/common/Studyarea98	on	Single	-
					/common/Railway98	on	Unique	Dxf_color
					/common/Road98	on	Unique	Dxf_color
					/common/River98	on	Unique	Code
					/common/Lake98	on	Single	-
-	D.4.3	Correlation of Annual Precipitation among Representative and Neighboring Stations (1963 – 1981)	correlation of annual precipitation.apr	CORRELATION OF ANNUAL PRECIPITATION AMONG REPRESENTATIVE AND NEIGHBORING	/common/Meteo_Station	on	Unique	code3
					/study area/natural condition/coe-line	on	Single	-
					/common/Studyarea98	on	Single	-
					/common/Railway98	on	Unique	Dxf_color
					/common/Road98	on	Unique	Dxf_color
					/common/River98	on	Unique	Code
					/common/Lake98	on	Single	-
-	D.4.4	Correlation of Annual Precipitation between Svilengrad and other Representative Stations (1963 –	correlation of annual precipitation.apr	CORRELATION OF ANNUAL PRECIPITATION BETWEEN SVILENGRAD AND REPRESENTATIVE	/common/Meteo_Station	on	Unique	code2
					/study area/natural condition/coe-line2	on	Single	-
					/common/Studyarea98	on	Single	-
					/common/Railway98	on	Unique	Dxf_color
					/common/Road98	on	Unique	Dxf_color
					/common/River98	on	Unique	Code
/common/Lake98	on	Single	-					
2.3.5	D.4.7	Thiessen Polygons Associated with the Representative Stations	thiessen polygons.apr	THIESSEN POLYGONS ASSOCIATED WITH THE REPRESENTATIVE	/common/Studyarea98	on	Single	-
					/study area/meteorology and hydrology/Repre_Station	on	Unique	Dxf_layer
					/study area/meteorology and hydrology/St_poly	on	Single	-
					/common/Lake98	on	Single	-
					/common/River98	on	Unique	Code
					/common/Railway98	on	Unique	Dxf_color
					/common/Road98	on	Unique	Dxf_color
					/study area/meteorology and hydrology/St_poly	off	Single	-

**SUPPORTING REPORT D METEOROLOGY AND HYDROLOGY**

Final	Support	Title of Figure	Name of Project	Name of View	Shape & Dbf File	On/off	Legend Type	Values Field
-	D.4.12	Annual Average Precipitaions at the Meteorological Station	Annual average Precipitaions.apr	ANNUAL AVERAGE PRECIPITATIONS AT THE METEOROLOGICAL	/common/Studyarea98 /common/Lake98 /common/River98 /common/Railway98 /common/Road98 /common/town98 /common/Meteo_Station /study area/meteorology and hydrology/outer_hydromet /study area/meteorology and hydrology/outer_hydromet	on on on on on on on on on	Single Single Unique Unique Unique Unique Unique Single Single	- - Code Dxf_color Dxf_color Dxf_color Code2 - -
-	D.5.10	HMS for Morphological Study Overlayed with Structures/Intake Facilities	HMS for morphological study.apr	HTM FOR MORPHOLOGICAL STUDY	/common/Studyarea98 /common/hydro_station /study area/water resources/dam /common/town98 /river basin management plan/int_weir /common/canals /common/road98 /common/railway98 /common/Lake98 /common/River98	on on on on on on on on on on	Single Unique Unique Unique Single Single Unique Unique Single Unique	- CODE2 Dxf_color Dxf_color - - Dxf_color Dxf_color - Code

**SUPPORTING REPORT E WATER RESOURCES**

Final	Support	Name of View	Project File	Name of View	Shape & Dxf File	On/off	Legend Type	Values Field
2.4.2	E.1.1	Major Reservoirs, Irrigation Systems and Hydropower Schemes in the Maritza River Basin	reservoirs-irrigation-hydropower.apr	MAJOR RESERVOIRS, IRRIGATION SYSTEMS AND HYDROPOWER SCHEMES IN THE MARITZA RIVER	/common/Box2	on	Single	-
					/common/Box1	on	Single	-
					/common/Junction	on	Single	-
					/common/Res98	on	Single	-
					/common/Canals98	on	Unique	Dxf_color
					/common/Lak_constr98	on	Single	-
/common/Intak_a98	on	Unique	Dxf_type					
-	E.1.2	Irrigation Branch	irrigation branch.apr	IRRIGATION BRANCH	/study area/water resources /Reg_98ce	on	Unique	Dxf_layer
					/study area/water resources /Mun98	on	Single	-
					/common/Reg_boun98	on	Single	-
					/common/Reg_boun98	on	Unique	Reg_id
					/study area/water resources /Mun98	on	Unique	Region
					/study area/water resources /Irig labels	on	Single	-
					/study area/water resources /Mun98	on	Unique	Region
					/common/Town98	on	Unique	Dxf_color
					/common/River98	on	Unique	Code
					/common/Lake98	on	Single	-
					/common/Studyarea98	on	Single	-
					/common/Road98	on	Unique	Dxf_color
					/common/Railway98	on	Unique	Dxf_color
					/common/Irig97	on	Single	-
/common/Iriaddpoly97	on	Single	-					
-	E.1.3	Medium and Small Reservoirs/Ponds	Medium and Small Reservoirs-Ponds.apr	Medium and Small Reservoirs-Ponds	/common/ponds	on	Single	-
					/common/Town98	on	Unique	Dxf_color
					/common/River98	on	Unique	Code
					/common/Lake98	on	Single	-
					/common/Studyarea98	on	Single	-
					/common/Road98	on	Unique	Dxf_color
/common/Railway98	on	Unique	Dxf_color					
2.4.2	E.4.1	Natural Surface Water Potential in 1994 and 1995	surface water potential.apr	NATURAL SURFACE WATER POTENTIAL IN 1994	hbound1p99+1	on	Single	-
					hbound1p99+1	on	Unique	Name
					/common/Junction	on	Unique	Code
					/study area/water resources /Hbound1p99	off	Chart	Pr95
					/common/Studyarea98	on	Single	-
					/common/Riv-Basin98	on	Single	-
					/common/River98	on	Unique	Code
					/common/Lake98	on	Single	-
					/study area/water resources /Hbound1p99	on	Graguated	Pr
2.4.4	E.5.1	Present Surface Water Balance Based on the Observed Discharge	surface water balance.apr	PRESENT SURFACE WATER BALANCE BASED ON THE PRESERVED DISCHARGE	/common/Box2	on	Single	-
					/common/Box1	on	Single	-
					/common/Junction	on	Unique	Code
					/common/Studyarea98	on	Single	-
					/common/Town98	off	Unique	Dxf_color
					/common/Riv-Basin98	on	Single	-
					/common/Riv-Basin98p	on	Single	-
					/common/River98	on	Unique	Code
					/common/Lake98	on	Single	-
2.4.5	E.5.2	Possible Surface Water Balance in the Present Based on the Estimated Water Demand	surface water balance.apr	POSSIBLE SURFACE WATER BALANCE IN THE PRESENT BASED ON THE ESTIMATED WATER	/common/Box2	on	Single	-
					/common/Box1	on	Single	-
					/common/Junction	on	Unique	Code
					/common/Studyarea98	on	Single	-
					/common/Town98	off	Unique	Dxf_color
					/common/Riv-Basin98	on	Single	-
					/common/Riv-Basin98p	on	Single	-
					/common/River98	on	Unique	Code
					/common/Lake98	on	Single	-

**SUPPORTING REPORT E WATER RESOURCES**

Final	Support	Name of View	Project File	Name of View	Shape & Dbf File	On/off	Legend Type	Values Field
3.5.1	E.6.1	Possible Surface Water Balance in 2015 (Case1) Based on the Estimated Water Demand	surface water balance.apr	POSSIBLE SURFACE WATER BALANCE IN 2015 (CASE1) ON THE ESTIMATED WATER	/common/Box2	on	Single	-
					/common/Box1	on	Single	-
					/common/Junction	on	Unique	Code
					/common/Studyarea98	on	Single	-
					/common/Town98	off	Unique	Dxf_color
					/common/Riv-Basin98	on	Single	-
					/common/Riv-Basin98p	on	Single	-
					/common/River98	on	Unique	Code
					/common/Lake98	on	Single	-
					3.5.2	E.6.2	Zoning for Water Resources Management	water resource management.apr
/common/Riv-Basin98p	on	Single	-					
/common/Studyarea98	on	Single	-					
/common/Intak_a98	on	Single	-					
/common/Intak2_a98	on	Single	-					
/common/Intak1_a98	on	Single	-					
/common/Lake98	on	Single	-					
/common/River98	on	Unique	Code					
/common/Irridpoly97	on	Single	-					
/common/Irrig97	on	Single	-					
-	E.6.3	Analysis of Erosion Potential and Protection Area to be Considered	erosion potential & protection area.apr	ANALYSIS OF EROSION POTENTIAL AND PROTECTION AREA TO BE CONSIDERED	/river basin management plan /Label	on	Single	-
					/common/Studyarea98	on	Single	-
					/common/Town98	on	Unique	Dxf_color
					/common/Riv-Basin98	on	Single	-
					/common/River98	on	Unique	Code
					/common/Lake98	on	Single	-
					/grids/qrs/Query10	on	Unique	Value
					/grids/qrs/Query9	on	Unique	Value
					/grids/slope3/Ncor-stop3	on	Unique	Value
					/grids/qrs/Query6	on	Unique	Value
					/grids/qrs/Query5	on	Unique	Value
					/grids/ncorine/Ncorine3%	on	Unique	Value
					/grids/qrs/Slope2	on	Graduated	Value
					/common/Riv-Basin98	on	Single	-
3.5.3	E.6.4	Strengthening of Monitoring Network for Meteorology	strengthening for meteorology.apr	STRENGTHENING OF MONITORING NETWORK FOR METEOROLOGY	/common/Meteo_Station	on	Unique	Code3
					/common/Meteo_Station	on	Unique	C de2
					/common/Studyarea98	on	Single	-
					/common/Lake98	on	Single	-
					/common/River98	on	Unique	Code
					/common/Railway98	on	Unique	Dxf_color
					/common/Road98	on	Unique	Dxf_color
3.5.4	E.6.5	Strengthening of Monitoring Network for Hydrology	strengthening for hydrology.apr	STRENGTHENING OF MONITORING NETWORK FOR HYDROLOGY	/common/Hydro_Station	on	Unique	Code
					/common/Hydro_Station	off	Unique	Code
					/common/Hydro_Station	on	Unique	Code
					/common/Studyarea98	on	Single	-



**SUPPORTING REPORT E WATER RESOURCES**

Final	Support	Name of View	Project File	Name of View	Shape & Dbf File	On/off	Legend Type	Values Field
3.5.5	E.6.6	Proposed Monitoring Stations for River Basin Management	proposed monitoring stations.apr	PROPOSED MONITORING STATIONS FOR RIVER BASIN MANAGEMENT	/river basin management plan /Wt-dispnt	on	Single	-
					/river basin management plan /Wt-discan	on	Single	-
					/river basin management plan /Dismetst	on	Single	-
					/river basin management plan /Wilevres	on	Single	-
					/river basin management plan /Int_weir	on	Single	-
					/common/Studyarea98	on	Single	-
					/common/Town98	on	Unique	MAIN CITY
					/common/Intak_a98	on	Single	-
					/common/Intak1_a98	on	Single	-
					/common/Intak2_a98	on	Unique	Dxf_color
					/common/Canals98	on	Unique	Dxf_color
					/common/Reservoirp98	on	Single	-
					/common/Res98	on	Single	-
					/common/Lak_constr98	on	Single	-
					/common/Lake98	on	Single	-
					/common/River98	on	Unique	Code
					/river basin management plan /Irr98	on	Single	-
/common/Irraddpoly97	on	Single	-					
3.5.6	E.6.7	Areas for Forest Conservation and Reforestation for Water Resources	areas for forest & reforestation.apr	AREAS FOR FOREST CONSERVATION AND REFORESTATION FOR WATER RESOURCES	/common/Studyarea98	on	Single	-
					/river basin management plan /Forestlabel	on	Single	-
					/common/Town98	on	Unique	Dxf_color
					/river basin management plan /Waterresource	on	Single	-
					/common/Intak_a98	off	Single	-
					/common/Intak1_a98	off	Single	-
					/common/Intak2_a98	off	Single	-
					/common/River98	on	Unique	Code
					/common/Lake98	on	Single	-
					/common/Irr97	off	Single	-
					/common/Irraddpoly97	off	Single	-
					/river basin management plan /Class3	on	Unique	Gridcode
					/river basin management plan /Class1	on	Unique	Gridcode
					/river basin management plan /Class2	on	Unique	Gridcode

**SUPPORTING REPORT F WATER SUPPLY**

Final	Support	Title of Figure	Name of Project	Name of View	Shape & Dbf File	On/off	Legend Type	Values Field
-	F.1.1	Water Supply Systems in the Maritza River Basin	water supply system in maritza.apr	WATER SUPPLY SYSTEM IN THE MARITZA RIVER	/common/Studyarea98	on	Single	-
					/common/Town98	on	Unique	Dxf_color
					/common/Railway98	on	Unique	Dxf_color
					/common/Road98	on	Unique	Dxf_color
					/water quality management/Ws_points	on	Unique	REGION-LAYER
					/water quality management/Reserv	on	Unique	REGION-LAYER
					/water quality management/water_supply_t	on	Unique	REGION-LAYER
					/water quality management/water_supply_p	on	Unique	REGION-LAYER
					/water quality management/watersup	on	Single	-
					/water quality management/wtrpipies	on	Single	-
					/water quality management/Wslines	on	Single	-
					/common/River98	on	Unique	Code
					/common/Lake98	on	Single	-
-	F.1.2	Polluted Groundwater Monitoring Stations Data from NCESD and NIMH	polluted groundwater stations.apr	POLLUTED GROUNDWATER MONITARING STATIONS DATA FROM NCESD AND	/study area/waterquality and pollution source/Gw_NCESD	on	Unique	So4_po4
					/common/Gw_NIMH1	off	Unique	Type
					/study area/waterquality and pollution source/Gw_NIMH2	off	Single	-
					/study area/waterquality and pollution source/Gw_NCESD	off	Single	-
					/common/Town98	on	Unique	Dxf_color
					/common/River98	on	Unique	Code
					/common/Lake98	on	Single	-
					/common/Sub-Basin98	on	Single	-
					/common/Studyarea98	on	Single	-
					/study area/socio-economic /Devastated land	on	Unique	Type
					/common/Riv-Basin98	on	Single	-
				POLLUTED GROUNDWATER MONITARING STATIONS DATA FROM NCESD AND	/study area/waterquality and pollution source/Gw_NCESD	on	Unique	Ca_mq
					/common/Gw_NIMH1	off	Unique	Type
					/study area/waterquality and pollution source/Gw_NIMH2	off	Single	-
					/study area/waterquality and pollution source/Gw_NCESD	off	Single	-
					/common/Town98	on	Unique	Dxf_color
					/common/River98	on	Unique	Code
					/common/Lake98	on	Single	-
					/common/Sub-Basin98	on	Single	-
					/common/Studyarea98	on	Single	-
					/common/Riv-Basin98	on	Single	-
					/study area/socio-economic /Devastated land	on	Unique	Type
				POLLUTED GROUNDWATER MONITARING STATIONS DATA FROM NCESD AND	/study area/waterquality and pollution source/Gw_NCESD	on	Unique	Fe_mn
					/common/Gw_NIMH1	off	Unique	Type
					/study area/waterquality and pollution source/Gw_NIMH2	off	Single	-
					/study area/waterquality and pollution source/Gw_NCESD	off	Single	-
					/common/Town98	on	Unique	Dxf_color
					/common/River98	on	Unique	Code
					/common/Lake98	on	Single	-
					/common/Sub-Basin98	on	Single	-
					/common/Riv-Basin98p	on	Single	-
					/common/Studyarea98	on	Single	-
					/study area/socio-economic /Devastated land	on	Unique	Type

**SUPPORTING REPORT G WATER QUALITY**

Final	Support	Title of Figure	Name of Project	Name of View	Shape & Dbf File	On/off	Legend Type	Values Field
2.6.1	G.2.1	Updated Monitoring System of NCESD	updated monitoring system of ncesd.apr	UPDATED MONITORING SYSTEM OF NCESD	/common/Studyarea98	on	Single	-
					/common/Town98	on	Unique	Priority_o
					/common/Railway98	off	Unique	Dxf_color
					/common/Road98	off	Unique	Dxf_color
					/common/River98	on	Unique	Code
					/common/Lake98	on	Single	-
					/common/Hydro_Station	on	Unique	Update
-	G.2.2	Monitoring Station by NIMH	monitoring station by nimh.apr	MONITORING STATION BY NIMH	/common/Studyarea98	on	Single	-
					/common/Town98	on	Unique	Priority_o
					/common/Railway98	off	Unique	Dxf_color
					/common/Road98	off	Unique	Dxf_color
					/common/River98	on	Unique	Code
					/common/Lake98	on	Single	-
					/common/Hydro_Station	on	Unique	Dxf_color
2.5.6	G.2.3	Seasonal Water Quality of BOD in 1994 - 1996	seasonal water quality.apr	SEASONAL WATER QUALITY OF BOD 1-3(75%)	/common/Studyarea98	on	Single	-
					/common/Town98	on	Unique	Dxf_color
					/common/Railway98	on	Unique	Dxf_color
					/common/Road98	on	Unique	Dxf_color
					/study area/socio-economic	on	Unique	BOD1-75
					/Waterquality	on	Unique	Code
					/common/River98	on	Unique	Code
				/common/Lake98	on	Single	-	
				SEASONAL WATER QUALITY OF BOD10-	/common/Studyarea98	on	Single	-
					/common/Town98	on	Unique	Dxf_color
					/common/Railway98	on	Unique	Dxf_color
					/common/Road98	on	Unique	Dxf_color
					/study area/socio-economic	on	Unique	BOD10-75
					/Waterquality	on	Unique	Code
					/common/River98	on	Unique	Code
				/common/Lake98	on	Single	-	
				SEASONAL WATER QUALITY OF BOD4-6(75%)	/common/Studyarea98	on	Single	-
					/common/Town98	on	Unique	Dxf_color
					/common/Railway98	on	Unique	Dxf_color
					/common/Road98	on	Unique	Dxf_color
					/study area/socio-economic	on	Unique	BOD4-75
					/Waterquality	on	Unique	Code
					/common/River98	on	Unique	Code
				/common/Lake98	on	Single	-	
				SEASONAL WATER QUALITY OF BOD7-9(75%)	/common/Studyarea98	on	Single	-
					/common/Town98	on	Unique	Dxf_color
					/common/Railway98	on	Unique	Dxf_color
					/common/Road98	on	Unique	Dxf_color
/study area/socio-economic	on	Unique	BOD7-75					
/Waterquality	on	Unique	Code					
/common/River98	on	Unique	Code					
/common/Lake98	on	Single	-					

**SUPPORTING REPORT G WATER QUALITY**

Final	Support	Title of Figure	Name of Project	Name of View	Shape & Dbf File	On/off	Legend Type	Values Field
2.5.7	G.2.4	Seasonal Water Quality of NH4 in 1994 - 1996	seasonal water quaity.apr	SEASONAL WATER QUALITY OF NH41-3(75%)	/common/Studyarea98	on	Single	-
					/common/Town98	on	Unique	Dxf_color
					/common/Railway98	on	Unique	Dxf_color
					/common/Road98	on	Unique	Dxf_color
					/study area/socio-economic	on	Unique	Nh1_75
					/Waterquality	on	Unique	Code
					/common/River98	on	Unique	Code
					/common/Lake98	on	Single	-
				SEASONAL WATER QUALITY OF NH4 10-	/common/Studyarea98	on	Single	-
					/common/Town98	on	Unique	Dxf_color
					/common/Railway98	on	Unique	Dxf_color
					/common/Road98	on	Unique	Dxf_color
					/study area/socio-economic	on	Unique	Nh10_75
					/Waterquality	on	Unique	Code
					/common/River98	on	Unique	Code
					/common/Lake98	on	Single	-
SEASONAL WATER QUALITY OF NH4 4-6(75%)	/common/Studyarea98	on	Single	-				
	/common/Town98	on	Unique	Dxf_color				
	/common/Railway98	on	Unique	Dxf_color				
	/common/Road98	on	Unique	Dxf_color				
	/study area/socio-economic	on	Unique	Nh4_75				
	/Waterquality	on	Unique	Code				
	/common/River98	on	Unique	Code				
	/common/Lake98	on	Single	-				
SEASONAL WATER QUALITY OF NH4 7-9(75%)	/common/Studyarea98	on	Single	-				
	/common/Town98	on	Unique	Dxf_color				
	/common/Railway98	on	Unique	Dxf_color				
	/common/Road98	on	Unique	Dxf_color				
	/study area/socio-economic	on	Unique	Nh7_75				
	/Waterquality	on	Unique	Code				
	/common/River98	on	Unique	Code				
	/common/Lake98	on	Single	-				
2.5.8	G.2.5	Seasonal Water Quality of NO3 in 1994 - 1996	seasonal water quaity.apr	SEASONAL WATER QUALITY OF NO3 1-3(75%)	/common/Studyarea98	on	Single	-
					/common/Town98	on	Unique	Dxf_color
					/common/Railway98	on	Unique	Dxf_color
					/common/Road98	on	Unique	Dxf_color
					/study area/socio-economic	on	Unique	No1_75
					/Waterquality	on	Unique	Code
					/common/River98	on	Unique	Code
					/common/Lake98	on	Single	-
				SEASONAL WATER QUALITY OF NO3 10-	/common/Studyarea98	on	Single	-
					/common/Town98	on	Unique	Dxf_color
					/common/Railway98	on	Unique	Dxf_color
					/common/Road98	on	Unique	Dxf_color
					/study area/socio-economic	on	Unique	No10_75
					/Waterquality	on	Unique	Code
					/common/River98	on	Unique	Code
					/common/Lake98	on	Single	-
SEASONAL WATER QUALITY OF NO3 4-6(75%)	/common/Studyarea98	on	Single	-				
	/common/Town98	on	Unique	Dxf_color				
	/common/Railway98	on	Unique	Dxf_color				
	/common/Road98	on	Unique	Dxf_color				
	/study area/socio-economic	on	Unique	No_75				
	/Waterquality	on	Unique	Code				
	/common/River98	on	Unique	Code				
	/common/Lake98	on	Single	-				
SEASONAL WATER QUALITY OF NO3 7-9(75%)	/common/Studyarea98	on	Single	-				
	/common/Town98	on	Unique	Dxf_color				
	/common/Railway98	on	Unique	Dxf_color				
	/common/Road98	on	Unique	Dxf_color				
	/study area/socio-economic	on	Unique	No_75				
	/Waterquality	on	Unique	Code				
	/common/River98	on	Unique	Code				
	/common/Lake98	on	Single	-				

**SUPPORTING REPORT G WATER QUALITY**

Final	Support	Title of Figure	Name of Project	Name of View	Shape & Dbf File	On/off	Legend Type	Values Field
	G.2.9	Monitoring Stations of Water Quality Survey by JICA	monitoring station of waterquality survey.apr	MONITORING STATIONS OF WATERQUALITY	/common/Studyarea98 /common/Town98 /common/Lake98 /common/River98 /common/riv-basin98p /common/Railway98 /common/riv-basin98 /water quality management plan/monitoring_st /water quality management plan/survey	on on on on on on on on	Single Unique Single Unique Single Unique Single Unique	- Dxf_color Code - Dxf_color - Number1 Dxf_layer
2.5.9	G.2.10	Biological Assessment of Water Quality in 1996 - 1997	biological assessment.apr	BIOLOGICAL ASSESSMENT OF WATERQUALITY IN 1996-1997	/common/Studyarea98 /common/Town98 /common/Lake98 /common/River98 /common/riv-basin98p /common/Railway98 /common/riv-basin98 /common/Road98 /common/sub-basin98p /common/sub-basin98 /hydrodynamic model development/bio-buffer	on on on on on on on on on on	Single Unique Single Unique Single Unique Single Unique Single Unique	- Dxf_color Code - Dxf_color - Dxf_color - Color
2.5.1	G.3.3	BOD Load by Pollution Source	bod load by pollution	BOD (Total)	/common/Town98 /common/Studyarea98 /common/Riv-Basin98 /common/Town98 /common/Railway98 /common/Road98 /common/River98 /common/Lake98 /common/Sub-Basin98p	on on on off on on on on on	Unique Single Single Single Unique Unique Unique Single Graduated	Dxf_color - - - Dxf_color Dxf_color Code - Total_bod
				BOD (Domestic)	/common/Town98 /common/Studyarea98 /common/Riv-Basin98 /common/Town98 /common/Railway98 /common/Road98 /common/River98 /common/Lake98 /common/Sub-Basin98p	on on on off on on on on on	Unique Single Single Single Unique Unique Unique Single Graduated	Dxf_color - - - Dxf_color Dxf_color Code - Domes_bo d
				BOD (Industry)	/common/Town98 /common/Studyarea98 /common/Riv-Basin98 /common/Town98 /common/Railway98 /common/Road98 /common/River98 /common/Lake98 /common/Sub-Basin98p	on on on off on on on on on	Unique Single Single Single Unique Unique Unique Single Graduated	Dxf_color - - - Dxf_color Dxf_color Code - Ind_bod
				BOD (Livestock)	/common/Town98 /common/Studyarea98 /common/Riv-Basin98 /common/Town98 /common/Railway98 /common/Road98 /common/River98 /common/Lake98 /common/Sub-Basin98p	on on on off on on on on on	Unique Single Single Single Unique Unique Unique Single Graduated	Dxf_color - - - Dxf_color Dxf_color Code - Live_bod

SUPPORTING REPORT G WATER QUALITY

Final	Support	Title of Figure	Name of Project	Name of View	Shape & Dxf File	On/off	Legend Type	Values Field
	G.3.4	TN Load by Pollution Source	TN load by pollution source.apr	TN (Total)	/common/Town98	on	Unique	Dxf_color
					/common/Studyarea98	on	Single	-
					/common/Riv-Basin98	on	Single	-
					/common/Town98	off	Single	-
					/common/Railway98	on	Unique	Dxf_color
					/common/Road98	on	Unique	Dxf_color
					/common/River98	on	Unique	Code
					/common/Lake98	on	Single	-
				/common/Sub-Basin98p	on	Graduated	Total_tn	
				TN (Domestic)	/common/Town98	on	Unique	Dxf_color
					/common/Studyarea98	on	Single	-
					/common/Riv-Basin98	on	Single	-
					/common/Town98	off	Single	-
					/common/Railway98	on	Unique	Dxf_color
					/common/Road98	on	Unique	Dxf_color
					/common/River98	on	Unique	Code
					/common/Lake98	on	Single	-
				/common/Sub-Basin98p	on	Graduated	Domes_tn	
				TN (Industry)	/common/Town98	on	Unique	Dxf_color
					/common/Studyarea98	on	Single	-
/common/Riv-Basin98	on	Single	-					
/common/Town98	off	Single	-					
/common/Railway98	on	Unique	Dxf_color					
/common/Road98	on	Unique	Dxf_color					
/common/River98	on	Unique	Code					
/common/Lake98	on	Single	-					
/common/Sub-Basin98p	on	Graduated	Ind_tn					
TN (Livestock)	/common/Town98	on	Unique	Dxf_color				
	/common/Studyarea98	on	Single	-				
	/common/Riv-Basin98	on	Single	-				
	/common/Town98	off	Single	-				
	/common/Railway98	on	Unique	Dxf_color				
	/common/Road98	on	Unique	Dxf_color				
	/common/River98	on	Unique	Code				
	/common/Lake98	on	Single	-				
/common/Sub-Basin98p	on	Graduated	Live_tn					
	G.3.7	BOD POLLUTION LOAD OF LIVESTOCK	BOD pollution load of Livestock.apr	BOD (Pig)	/common/Town98	on	Unique	Dxf_color
					/common/Studyarea98	on	Single	-
					/common/Riv-Basin98	on	Single	-
					/common/Town98	off	Single	-
					/common/Railway98	on	Unique	Dxf_color
					/common/Road98	on	Unique	Dxf_color
					/common/River98	on	Unique	Code
					/common/Lake98	on	Single	-
				/common/Sub-Basin98p	on	Graduated	Pig_BOD	
				BOD (Fowl)	/common/Town98	on	Unique	Dxf_color
					/common/Studyarea98	on	Single	-
					/common/Riv-Basin98	on	Single	-
					/common/Town98	off	Single	-
					/common/Railway98	on	Unique	Dxf_color
					/common/Road98	on	Unique	Dxf_color
					/common/River98	on	Unique	Code
					/common/Lake98	on	Single	-
				/common/Sub-Basin98p	on	Graduated	Fowl_BO	
				BOD (Cattle)	/common/Town98	on	Unique	Dxf_color
					/common/Studyarea98	on	Single	-
/common/Riv-Basin98	on	Single	-					
/common/Town98	off	Single	-					
/common/Railway98	on	Unique	Dxf_color					
/common/Road98	on	Unique	Dxf_color					
/common/River98	on	Unique	Code					
/common/Lake98	on	Single	-					
/common/Sub-Basin98p	on	Graduated	Cattle_BO D					

**SUPPORTING REPORT G WATER QUALITY**

Final	Support	Title of Figure	Name of Project	Name of View	Shape & Dbf File	On/off	Legend Type	Values Field
	G.3.8	TN POLLUTION LOAD OF LIVESTOCK	TN pollution load of Livestock.apr	TN (Pig)	/common/Town98	on	Unique	Dxf_color
					/common/Studyarea98	on	Single	-
					/common/Riv-Basin98	on	Single	-
					/common/Town98	off	Single	-
					/common/Railway98	on	Unique	Dxf_color
					/common/Road98	on	Unique	Dxf_color
					/common/River98	on	Unique	Code
					/common/Lake98	on	Single	-
					/common/Sub-Basin98p	on	Graduated	Pig_TN
				TN (Fowl)	/common/Town98	on	Unique	Dxf_color
					/common/Studyarea98	on	Single	-
					/common/Riv-Basin98	on	Single	-
					/common/Town98	off	Single	-
					/common/Railway98	on	Unique	Dxf_color
					/common/Road98	on	Unique	Dxf_color
					/common/River98	on	Unique	Code
					/common/Lake98	on	Single	-
					/common/Sub-Basin98p	on	Graduated	Fowl_TN
				TN (Cattle)	/common/Town98	on	Unique	Dxf_color
					/common/Studyarea98	on	Single	-
					/common/Riv-Basin98	on	Single	-
					/common/Town98	off	Single	-
					/common/Railway98	on	Unique	Dxf_color
					/common/Road98	on	Unique	Dxf_color
					/common/River98	on	Unique	Code
					/common/Lake98	on	Single	-
					/common/Sub-Basin98p	on	Graduated	Cattle_TN
G.3.9	LOCATION OF MINES AND THEIR RELATIONG FACILITIES (1)	miningmap.apr	MINING MAP (WITH LABEL)	/common/Studyarea98	on	Single	-	
				/common/Town98	on	Unique	Dxf_color	
				/common/Lake98	on	Single	-	
				/common/River98	on	Unique	Code	
				/common/riv-basin98p	on	Single	-	
				/common/riv-basin98	on	Single	-	
				/common/Au_lines	on	Single	-	
				/common/minepoint	on	Unique	Mine82_100	
				/common/minepoint	on	Unique	Mine_all	
	/mining/minepoly	on	Unique	Dxf_layer				
	LOCATION OF MINES AND THEIR RELATIONG FACILITIES (2)	miningmap.apr	MINING MAP (WITH LABEL)	/common/Studyarea98	on	Single	-	
				/common/Town98	on	Unique	Dxf_color	
				/common/Lake98	on	Single	-	
				/common/River98	on	Unique	Code	
				/common/riv-basin98p	on	Single	-	
				/common/riv-basin98	on	Single	-	
				/common/Au_lines	on	Single	-	
				/common/minepoint	on	Unique	Mine82_100	
/common/minepoint				on	Unique	Mine_all		
/mining/minepoly	on	Unique	Dxf_layer					

**SUPPORTING REPORT G WATER QUALITY**

Final	Support	Title of Figure	Name of Project	Name of View	Shape & Dbf File	On/off	Legend Type	Values Field
		LOCATION OF MINES AND THEIR RELATIONG FACILITIES (3)	miningmap.apr	MINING MAP (WITH LABEL)	/common/Studyarea98	on	Single	-
					/common/Town98	on	Unique	Dxf_color
					/common/Lake98	on	Single	-
					/common/River98	on	Single	Code
					/common/riv-basin98p	on	Single	-
					/common/riv-basin98	on	Single	-
					/common/Au_lines	on	Single	-
					/common/minepoint	on	Unique	Mine82_100
					/common/minepoint	on	Unique	Mine_all
					/mining/minepoly	on	Unique	Dxf_layer
		LOCATION OF MINES AND THEIR RELATIONG FACILITIES (4)	miningmap.apr	MINING MAP (WITH LABEL)	/common/Studyarea98	on	Single	-
					/common/Town98	on	Unique	Dxf_color
					/common/Lake98	on	Single	-
					/common/River98	on	Unique	Code
					/common/riv-basin98p	on	Single	-
					/common/riv-basin98	on	Single	-
					/common/Au_lines	on	Single	-
					/common/minepoint	on	Unique	Mine82_100
					/common/minepoint	on	Unique	Mine_all
					/mining/minepoly	on	Unique	Dxf_layer
3.4.2	G.4.2	Zoning and Priority Town	zoning and priority town.apr	ZONING AND PRIORITY	/common/Studyarea98	on	Single	-
					/water quality management plan /Priorityline	off	Single	-
					/common/Town98	on	Unique	Priority 2
					/common/Riv-Basin98	on	Single	-
					/common/Sub-Basin98	off	Single	-
					/common/River98	on	Unique	Code
					/common/Lake98	on	Single	-
					/mining/Hbound2p98	off	Single	-
					/common/Riv-Basin98p	on	Single	-
					/water quality management plan /Priority2	on	Single	-
					/water quality management plan /Priority	on	Single	-
3.4.5	G.4.5	New or Extended Treatment Works of National Plan in 1989	treatment works.apr	NEW OR EXTENDED TREATMENTWORKS OF NATIONAL PLAN IN 1989	/common/Studyarea98	on	Single	-
					/common/Town98	on	Unique	Priority_o
					/common/Town98	on	Unique	Dxf_color
					/common/Riv-Basin98	on	Single	-
					/common/Riv-Basin98	off	Single	-
					/common/Sub-Basin98	off	Single	-
					/common/Railway98	off	Unique	Dxf_color
					/common/Road98	off	Unique	Dxf_color
					/common/River98	on	Unique	Code
					/common/Lake98	on	Single	-
					/common/Riv-Basin98p	on	Single	-
					/mining/Hbound2p	off	Single	-
	G.4.6	Proposed Monitoring System	proposed monitoring system.apr	PROPOSED MONITORING SYSTEM	/common/Studyarea98	on	Single	-
					/common/Hydro_Station	on	Unique	STATION
					/common/Town98	on	Unique	Dxf_color
					/common/Road98	on	Unique	Dxf_color
					/common/Railway98	on	Unique	Dxf_color
					/common/Lake98	on	Single	-
					/common/River98	on	Unique	Code
3.4.7	G.4.7	LOCATION OF TOP 20 INDUSTRYIES IN TERMS OF POLLUTION LOAD	industry.apr	INDUSTRY	/common/Studyarea98	on	Single	-
					/common/Town98	on	Unique	Dxf_color
					/common/Lake98	on	Single	-
					/common/River98	on	Unique	Code
					/common/Railway98	on	Unique	Dxf_color
					/common/Road98	on	Unique	Dxf_color
					/common/Industry	on	Unique	Number



**SUPPORTING REPORT H WASTEWATER TREATMENT FACILITIES**

Final	Support	Title of Figure	Name of Project	Name of View	Shape & Dbf File	On/off	Legend Type	Values Field					
2.8.1	H.2.2	Towns with Sewerage Systems	Towns with sewerage system.apr	TOWNS WITH SEWERAGE SYSTEM	/common/studyarea98	on	Single	-					
					/common/River98	on	Unique	Code					
					/common/Lake98	on	Single	-					
					/common/Town98	on	Unique	SEWERAGE					
					/common/sewerage	on	Single	-					
4.2.10	H.2.3	Main Collectors of Sewerage and Industries in Pazardjik	sewerage problem map.apr	Pazardjik S.System	/feasibility study/25000map/p_roads	on	Unique	FOR OVERLA only for regend 10000					
					/feasibility study/25000map/p_road25000	on	Unique	-					
					/feasibility study/25000map/p_river25000line	on	Single	-					
					/feasibility study/25000map/p_town25000	on	Single	-					
					/feasibility study/10000map/p_town10000	on	Single	-					
					/feasibility study/10000map/p_roads	on	Single	-					
					/feasibility study/10000map/p_road10000	on	Single	-					
					/feasibility study/10000map/p_river10000line	on	Single	-					
					/feasibility study/10000map/p_river10000	on	Single	-					
					/feasibility study/10000map/s_sewerage overflow.shp	on	Single	-					
					/feasibility study/10000map/s_sewerage overflow line.shp	on	Single	-					
					/feasibility study/10000map/p_sewerage system	on	Unique	Sewerage_s					
					4.2.12	H.2.5	Main Collectors of Sewerage and Industries in Stara Zagora	sewerage problem map.apr	Stara Zagora S.System	/feasibility study/25000map/sd_roads	on	Unique	FOR OVERLA
										/feasibility study/25000map/s_road25000	on	Single	-
										/feasibility study/25000map/s_river25000line	on	Unique	Only_for_O
/feasibility study/25000map/s_town25000	on	Single	-										
/feasibility study/10000map/st_town10000	on	Single	-										
/feasibility study/10000map/st_road10000	on	Single	-										
/feasibility study/10000map/st_road10000	on	Single	-										
/feasibility study/10000map/st_river10000	on	Unique	Only_for_O										
/feasibility study/10000map/st_sewerage system	on	Unique	Sewerage_s										
/feasibility study/10000map/s_sewerage overflow.shp	on	Single	-										
/feasibility study/10000map/s_sewerage overflow line.shp	on	Single	-										
4.2.11	H.2.8	Main Collectors of Sewerage and Industries in Dimitrovgrad	sewerage problem map.apr	Dimitrovgrad S.System						/feasibility study/25000map/sd_roads	on	Unique	For overla
										/feasibility study/25000map/d_road25000	on	Unique	Only_for_I
										/feasibility study/25000map/d_river25000line	on	Unique	Only_for_O
										/feasibility study/25000map/sd_town25000	on	Single	-
					/feasibility study/10000map/d_town10000	on	Single	-					
					/feasibility study/10000map/d_road10000	on	Single	-					
					/feasibility study/10000map/d_road10000	on	Single	-					
					/feasibility study/10000map/d_river10000line	on	Unique	Type					
					/feasibility study/10000map/d_river10000poly	on	Single	-					
					/feasibility study/10000map/d_sewerage system	on	Unique	Sewerage system					
					/feasibility study/10000map/s_sewerage overflow.shp	on	Single	-					
					/feasibility study/10000map/s_sewerage overflow line.shp	on	Single	-					

**SUPPORTING REPORT J SOCIO-ECONOMY AND FINANCIAL ANALYSIS**

Final	Support	Title of Figure	Name of Project	Name of View	Shape & Dbf File	On/off	Legend Type	Values Field
2.2.1	J.1.1	Administration Boundary in the Study Area	Administration Boundary in the Study Area.apr	ADMINISTRATION BOUNDARY IN THE STUDY	/study area/water resources/reg_98ce	on	Unique	Dxf_layer
					/study area/water resources/mun98	on	Unique	Region
					/common/river98	on	Unique	Code
					/common/lake98	on	Single	-
					/common/Studyarea98	on	Single	-
					/study area/socio-economy/rci-boundary1	on	Single	-
					/common/road98	on	Unique	Dxf_color
					/common/Railway98	on	Unique	Dxf_color
					/common/Reg_boun98	on	Single	-
					2.2.2	J.1.2	Five Sub-Regions in the Maritza River Basin	five sub-regions.apr
/common/Reg_boun98	on	Single	-					
/common/Reg_boun98	off	Single	-					
/common/Reg_boun98	off	Single	-					
/study area/socio-economic /Sub_Region	on	Single	-					
/study area/socio-economic /Sub_Region	on	Single	-					
/common/Riv-Basin98	on	Single	-					
/common/Studyarea98	on	Single	-					
/common/Railway98	off	Unique	Dxf_color					
/common/Road98	off	Unique	Dxf_color					
/common/River98	on	Unique	Code					
/common/Lake98	on	Single	-					
/common/Riv-Basin98p	on	Single	-					

**SUPPORTING REPORT K ENVIRONMENT**

Final	Support	Title of Figure	Name of Project	Name of View	Shape & Dbf File	On/off	Legend Type	Values Field
2.6.1	K.3.1	Environmental Protection Area to be Considered	Environmental Protection Area.apr	ENVIRONMENTAL POTENTIAL AREA TO BE	/study area/natural condition/set_sour	on	Unique	Dxf_layer
					/study area/natural condition/wetlands	on	Unique	Code
					/common/studyarea98	on	Single	-
					/common/River98	on	Unique	Code
					/common/Lake98	on	Single	-
					/common/Town98	on	Unique	Dxf_color
					/common/road98	on	Unique	Dxf_color
					/common/road98	on	Unique	Dxf_color
/land use plan/protect	on	Unique	Name					

**SUPPORTING REPORT L HD MEDEL DEVELOPMENT**

Final	Support	Title of Figure	Name of Project	Name of View	Shape & Dbf File	On/off	Legend Type	Values Field
3.9.1	L.4.1	River Network for Hydrodynamic Modeling (2/2)	river network.apr	RIVER NETWORK FOR HYDRODYNAMIC	/common/Studyarea98	on	Single	-
					/common/Hydro_Station/hydrodynamic model	on	Unique	Calibration
					development/Mod_node	on	Unique	Id
					/common/Sub-Basin98/hydrodynamic model	on	Single	-
					development/Mainbranch	on	Single	-
					/common/Town98	on	Unique	Class
					/common/Riv-Basin98	on	Single	-
					/common/Riv-Basin98p	on	Single	-
					/common/Lake98	on	Single	-
					/common/River98	on	Unique	Code
/common/Sub-Basin98p	Off	Single	-					
-	L.4.2	Chainage Network for the Major Rivers	chanage network.apr	CHANAGE NETWORK FOR MAJOR RIVERS	/common/Studyarea98	on	Single	-
					/common/Town98	on	Unique	Dxf_color
					/common/River98	on	Unique	Code
					/common/Lake98	on	Single	-
					/common/Railway98	on	Unique	Dxf_color
					/common/Road98	on	Unique	Dxf_color
					/study area/natural condition/km_0	on	Single	-
					/study area/natural condition/km_riv	on	Single	-
					/study area/natural condition/km_riv	on	Single	-
					/study area/natural condition/riverstemp	on	Single	-
3.9.2	L.5.1	Sub-Basins of the Maritza River System (Detailed)	sub-basins.apr	SUB-BASINS OF THE MARITZA RIVER SYSTEM	/common/Studyarea98	on	Single	-
					/common/Town98	on	Unique	Dxf_color
					/common/Riv-Basin98	on	Single	-
					/common/Riv-Basin98	on	Single	-
					/common/Sub-Basin98	on	Single	-
					/common/Riv-Basin98	on	Single	-
					/common/Sub-Basin98	on	Single	-
					/common/Riv-Basin98p	on	Single	-
					/common/River98	on	Unique	Code
					/common/Lake98	on	Single	-
/common/Railway98	off	Unique	Dxf_color					
/common/Road98	off	Unique	Dxf_color					

**SUPPORTING REPORT M WQ MEDEL DEVELOPMENT**

Final	Support	Title of Figure	Name of Project	Name of View	Shape & Dxf File	On/off	Legend Type	Values Field
-	M.I.1	Location of Surface Water Monitoring Stations in the Maritza Basin	Location of Surface Water Monitoring Stations.apr	LOCATION OF SURFACE WATER MONITORING STATIONS	/common/Studyarea98	on	Single	-
					/common/Hydro_Station	on	Unique	Calibration
					/common/Town98	on	Unique	Class
					/common/Lake98	on	Single	-
					/common/River98	on	Unique	Code
					/common/Railway98	on	Unique	Dxf_color
					/common/Road98	on	Unique	Dxf_color

TABLE A.8.1 DEFINITION OF ATTRIBUTE

Definition of Attribute					
No.	Attribute Table	Attribute	Definition	Fig.	Project File
1	/common/Canals98	Dxf_color	Classification of Irrigation Canal	2.5.1 E.1.1	reservoirs-irrigation-hydropower.apr
2	/common/Elev_250m	Contour	Elevation	4.2	environment sensitive area.apr
3	/common/Gw_NIMH1	NewField Type	Groundwater of NIMH High NH4,NO2,NO3	2.1.8 2.6.8	transmissivity distribution.apr polluted groundwater stations.apr
4	/common/Hydro_Station	Calibration Code CODE2 Dxf_color Dxf_layer2 STATION	HMS for Calibration Type of HMS Hydrometric Station NCESD Station NCESD,UNDP Principal Station,Auxiliary Station	8.1 6.5 D.5.10 2.6.5 2.6.5 5.7	river network.apr strengthening for hydrology.apr hms for morphological study.apr monitoring station of ncesd.apr monitoring station of ncesd.apr proposed monitoring system.apr
5	/common/Intak_a98	Dxf_type	-	2.5.1	reservoirs-irrigation-hydropower.apr
6	/common/Intak2_a98	Dxf_color	-	6.6	reservoirs-irrigation-hydropower.apr
7	/common/Irrig98	Water_dema	Rehabilitation and improvement of irrigation systems	6.8	necessary study.apr
8	/common/Junction	Code	-	6.1	surface water balance.apr
9	/common/Meteo_Station	C.de2 Code3 Dxf_layer	Upgrading Existing Station from Manual to Automatic Rank of Strengthening of Climatic Station Classification of Stations (Climatic or Precipitation)	6.4 6.4 2.4.5	strengthening for meteorology.apr strengthening for meteorology.apr thiessen polygons.apr
10	/common/Minepoint	Mine_all_p	Coal mines,Quarries	4.2	environment sensitive area.apr
11	/common/Railway98	Dxf_color	Railway	8.2	sub-basins.apr
12	/common/Reg_boun98	Code Reg_id	- -	2.2.4 2.5.2	class of municip by social indices.apr irrigation branch.apr
13	/common/River98	Code	-	8.2	sub-basins.apr
14	/common/Road98	Dxf_color	-	8.2	sub-basins.apr
15	/common/Sel_stat	Dxf_layer	-	2.4.3	meteorological condition.apr
16	/common/Sub-Basin98p	Dom_BOD Ind_bod Liv_BOD Total_bod	Domestic BOD load Industry BOD load Livestock BOD load Total BOD load	2.6.1 2.6.1 2.6.1 2.6.1	bod load by pollution source.apr bod load by pollution source.apr bod load by pollution source.apr bod load by pollution source.apr
17	/common/Town98	Class Dxf_color Dxf_layer MAIN CITY Priority 2 Priority_o	- - - Main City (Population>70,000) Priority Town (Completion of Project by 2005,2010,2015) Priority Town (Completion of Project by 1995,2000,2010)	8.1 8.2 2.1.7 6.6 5.3 5.6	river network.apr sub-basins.apr monitoring system by moew.apr proposed monitoring stations.apr zoning and priority town.apr treatment works.apr
18	/hydrodynamic model development/Mod_node	Id	Node	8.1	river network.apr
19	/land use plan/Erosion	Color	High Potential	4.1	landuse zoning map.apr
20	/land use plan/Landuse	Lcnmen Major_grou	Landuse Landuse (by Major Group)	4.2 2.2.2	environment sensitive area.apr present land cover map.apr
21	/land use plan/Ore-mine	Dxf_color	Ore-mine,underground,activ,open pit,closed (or mined out)	4.2	environment sensitive area.apr
22	/land use plan/Protect	Name	Protection Zoning Type	4.1	landuse zoning map.apr
23	/land use plan/Protect2	Protected_	-	4.1	landuse zoning map.apr
24	/river basin management plan /Class1	Gridcode	High Priority of forest conservation/Supplemental reforestation for water resource	6.7	areas for forest & reforestation.apr
25	/river basin management plan /Class2	Gridcode	Medium priority of forest conservation and reforestation for water resources	6.7	areas for forest & reforestation.apr
26	/river basin management plan /Class3	Gridcode	High priority of forest conservation and reforestation (including agro-forestry and fruit trees) for water resources	6.7	areas for forest & reforestation.apr
27	/river basin management plan /Systemlabel	NUMBER	Rehabilitation of water supply systems	6.8	necessary study.apr
28	/river basin management plan /Waterresource	Category	Category for water resources Management	6.2	water resource management.apr
29	/socio-economic framework /Devastated Land	Type	Devastated land (by Landsat Image)	2.1.6	groundwater monitoring stations.apr
30	/study area/land use/Vegetation	Value	Landuse	2.3.1	vegetation map.apr
31	/study area/natural condition /Coal_mines	Dxf_color	Coal mines,Quarries	2.1.5	geological map.apr
32	/study area/natural condition /Fault	Typeen	Certain normal fault,strike-slip fault,Faultzone,Supposed normal fault,Thrust and nappe	2.1.5	geological map.apr
33	/study area/natural condition /Geology	Number	Lithology	2.1.5	geological map.apr
34	/study area/natural condition /Transmissivity	Color	Transmissivity	2.1.8	transmissivity distribution.apr
35	/study area/natural condition /Well	Dxf_layer	Monitoring Well (Quaternary,Neogene Deposit,Bedlocks)	2.1.7	monitoring system by moew.apr
36	/study area/socio-economic /Devastated land	Type	Devastated land (by Landsat Image)	2.6.8	polluted groundwater stations.apr
37	/study area/socio-economic /Munp2	Ee_lank Ee_lank2	Social lanking Economic lanking	2.2.3 2.2.4	class of municip by economic indices.apr class of municip by social indices.apr
38	/study area/socio-economic /Waterquality	BOD1-75 BOD4-75 BOD7-75 BOD10-75 Nh1_75 Nh4_75 Nh7_75 Nh10_75	BOD Load from Jan. to March BOD Load from April to June BOD Load from July to August BOD Load from Oct. to Dec. NH4 Load from Jan. to March NH4 Load from April to June NH4 Load from July to August NH4 Load from Oct. to Dec.	2.6.6 2.6.6 2.6.6 2.6.6 2.6.7 2.6.7 2.6.7 2.6.7	seasonal water quality.apr seasonal water quality.apr seasonal water quality.apr seasonal water quality.apr seasonal water quality.apr seasonal water quality.apr seasonal water quality.apr seasonal water quality.apr
39	/study area/socio-economy /Ncorineshp98	Major_grou	Landuse	6.2	water resource management.apr
40	/study area/water resources/Dam	Dxf_color	Dams	2.5.1 D.5.10	reservoirs-irrigation-hydropower.apr hms for morphological study.apr
41	/study area/water resources /Hbound1p99	Pr95	Pr : (Natural surface water potential of each basin)/(Natural surface water potential at Jet.1)	2.5.3	surface water potential.apr
43	/study area/water resources /Hpp_pn	Dxf_color	Hydropower plant (HPP)	2.5.1	reservoirs-irrigation-hydropower.apr
44	/study area/water resources /Irrigation	Code	Irrigation area under Operation or not under Operation	2.5.1	reservoirs-irrigation-hydropower.apr
45	/study area/water resources /Mun98	Region	Regional boundary	2.5.2	irrigation branch.apr
46	/study area/water resources /Reg_98ce	Dxf_layer	Irrigation area	2.5.2	irrigation branch.apr
47	/study area/waterquality and pollution source/Gw_NCESD	Ca_mq Fe_nm So4_po4	High Ca,Mg, High Fe,Mn High SO4,PO4	2.6.8 2.6.8 2.6.8	polluted groundwater stations.apr polluted groundwater stations.apr polluted groundwater stations.apr
48	/study area/waterquality and pollution source/Gw_NIMH2	Code1	-	2.1.6	groundwater monitoring stations.apr
49	/water quality management/Reserv	REGION LAYER	Location in Sofia,Plodvic,Haskovo,Stara Zagora	F.1.1	water supply system in maritza.apr
50	/water quality management/water_supply_1	REGION LAYER	Location in Sofia and Plodvic	F.1.1	water supply system in maritza.apr
51	/water quality management/water_supply_p	REGION LAYER	Location in Sofia and Plodvic	F.1.1	water supply system in maritza.apr