

THE WORLD BANK
REPUBLIC OF KAZAKHSTAN

***IDENTIFICATION OF PRIORITY ISSUES
IN SEVEN MAJOR RIVER BASINS
IN KAZAKHSTAN***

*PROBLEM IDENTIFICATION AND PRIORITISATION
WORKSHOP PAVLODAR*

WORKSHOP PROTOCOL

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1 INTRODUCTION

1.1 BACKGROUND

The subject workshop is part of the project: Priority Issues in 7 Major River Basins in Kazakhstan.

In a first step, individual experts prepared background papers for each river basin outlining the characteristics of the river basin and the major problems. In the following step - representing a first consultation round – the river basin experts presented the essence of these reports in Problem Identification and Prioritisation Workshops. Such workshops were held at the river basin level, giving all stakeholders and interested parties the chance to present their views and to complement the findings. This report summarises the main findings of the workshop in Pavlodar covering the Irtysh river basin.

1.2 WORKSHOP ORGANISATION

The one-day workshop was organised by the consultant with the assistance and in close cooperation with the Irtysh river basin authority. It took place in Pavlodar at hotel Dostyk on July 24, 2002. The workshop was chaired by the Kazakh Project Coordinator, Mr. Nariman Kipshakbaev, and co-chaired by the Austrian consultant Fritz Schwaiger. The World Bank was represented by Mr. Roman Solodchenko, Country Programme Manager and Mr. Evgeny Tyrtyshtny, Operations Officer.

In a first session, the river basin expert Mr. Igor Kolodin presented the main findings of his report. Then discussion sessions followed, focusing on the following:

- Discussion of the report with emphasis on water resources, existing infrastructure, water demand and major polluters
- Major problems and possible solutions
- Priority ranking criteria and priority ranking of problems

1.3 PARTICIPANTS

In total 45 people participated at the workshop, representing 39 organizations. A complete list of participants is attached in Annex A.

2 PRIORITY PROBLEMS IN THE RIVER BASIN

After intensive discussions it was agreed that the priority problems are as shown below. The problems are ranked according to three categories.

2.1 PROBLEMS OF FIRST PRIORITY

1. Water Quality and Quantity monitoring

Huge industrial enterprises located in the Irtysh basin, specially in and around Ust-Kamenogorsk have been identified as the main sources of water pollution. The present level of analysing and monitoring wastewater discharges and natural waters is unsatisfactory and not regular. There is a lack of reliable data, but this is the essential base for future improvements. The participants of the workshop proposed the installation and construction of an appropriate water resources and wastewater quality and quantity monitoring system. This comprises of the rehabilitation of old hydro posts (quality and quantity monitoring stations) and the establishment of new ones at the transboundary water ways.

2. Improve structure and principles of water resources management

The existing structure of water resources management institutions should be reconsidered. It is necessary to create a corresponding information system and management model. It is necessary to establish ecosystem management principles and to create a system of diagnostics and monitoring in Irtysh water flow formation zones.

3. Lack of institutional and legal mechanism for transboundary problems.

The Irtysh river passes through three countries – China, Kazakhstan and Russia. It is necessary to create trilateral agreement for joint water resources use and management between these countries and submit for government consideration and signing. This includes the establishment of an appropriate international forum e.g. International Commission for Protection of the Irtysh river (ICPI).

4. Preservation of the flood-plain

As a result of irrational water resources management by the hydropower sector one can observe ecological flood-plain degradation. To preserve the flood-plain and its natural biosphere it is necessary to conduct investigations and to develop an ecological and economical system of water consumption aimed at balancing requirements of all economic sectors (hydropower, agriculture etc) and ecology (including new rules of reservoir operation).

It is also proposed to introduce economic mechanisms for water consumption with different payment rates depending on the water use.

To preserve the flood-plain of the Irtysh river it was also proposed to conduct phytomelioration (introduction of moisture retaining herbs) and to preserve the natural river bed.

5. Insufficient flow regulation at the Irtysh river

The Shulba reservoir' HPS has been constructed in its first phase only and is currently not able to discharge through the turbines sufficient amount of water to create a high enough flood for watering the flood plains. This would be possible after raising the dam and reservoir level by 20 m. The construction of the second phase (increasing dam height and storage volume) of the Shulbinsk HPS will allow to: preserve the natural ecosystem of the Irtysh flood-plain, to solve the problem of the river regulation and provide better annual flow distribution.

The construction of the shipping lock at the Shulba power plant which is also part of the phase 2 works, is very important for navigation.

6. Wastewater treatment plants and sewage network of Semipalatinsk and Ust-Kamenogorsk cities.

Presently wastewater of Semipalatinsk undergoes only mechanical treatment. It was proposed to construct a biological treatment stage .

It is necessary to extend and reconstruct the treatment plant of Ust-Kamenogorsk city up to the capacity equal to 200,000 m³/day.

The sewerage systems of the main cities needs rehabilitation and extension to unserved urban areas.

7. Deteriorated water distribution systems

Deterioration of water pipelines is a problem of water supply systems in all cities.

8. State support to Satpaev's canal (Irtysh Karaganda canal)

Satpaev's canal is one of the main sources of industrial and agricultural water supply in the basin. To support this unique facility it is necessary to allocate state dotation (subsidy) since the complex is non-profitable and technical condition is unsatisfactory.

2.2 PROBLEMS OF SECOND PRIORITY

1. Lack of up-to-date data

After dissolution of the Soviet Union the system of database collection considering water quantity and quality, its processing and analysis was destroyed. It is necessary to create a center (institute) for data collection for all the river basins in the RK. The problem can be solved after reconstruction of hydro posts and establishment of monitoring and analysis system.

2. Water code

Presently a new Water Code is being developed in Kazakhstan. This document has to be developed taking into consideration new principles of water management on the basis of international norms and standards, international best practice but also the particular conditions of the water sector in Kazakhstan.

2.3 PROBLEMS OF THIRD PRIORITY

1. Pollution of water bodies – mercury, kerosene, consequences of nuclear tests

Huge industrial enterprises, discharging wastewaters into the water bodies without preliminary treatment or insufficient treatment are considered as main sources of pollution. Participants of the workshop proposed to: reconsider volumes of maximum permissible discharges from the consumers, to develop actions preventing pollution and wastewaters treatment, introduce recycling water supply, to create special scientific research institute. It is also necessary to conduct water analysis for radioactive pollution.

2. Lack of Complex Water resources Use and Protection Scheme

To develop CWUS aimed at solving problem of rational and effective water resources use. It is necessary to establish up-to-date data on water resources and present and future water demand and on the basis of this, to carry out multi purpose water use planning.

3. Imperfect water tariff system

It is necessary to reconsider the existing water use tariff system, since the existing system does not correspond to the true cost.

It is also proposed to create a central water fund which funds are used in the water sector and can not be transferred to other sectors.

4. Navigation

To solve navigation problem at the Irtysh river it is proposed to construct the second (phase) stage of Shulbinsk reservoir including the ship locks and to develop a concept (study) for revival of water transport.

5. Decrease of irrigated land area

In the recent years, a strong decrease of irrigated areas and consequently the fall of agricultural water consumption was observed. Reduction of water consumption is also connected with deterioration of irrigated channels and water intakes. The reconstruction of irrigated channels is required.

(??) The construction of Shulbinsk and Bukhtarma HPPs caused ecological and economical damage to downstream settlements. It was proposed to compensate the caused damage.

6. Rural drinking water supply

The problem is quality drinking water supply of remote rural settlements. Two alternative solutions have been identified: rehabilitation of existing group water pipelines or the use of ground waters for arrangement of local water supply systems.

7. NGO – Non Government Organisations

The development of new NGOs is suggested and the attraction of existing NGOs to the problem of water management and its rational use and protection. Water user associations should be formed. They should provide the government with information. For example, there is the NGO “Velikiy Irtys” (Great Irtys) which is ready to cooperate

Signed by

Nariman Kipshakbaev
Project Coordinator

Fritz Schwaiger
Team Leader

3 ANNEX A – LIST OF PARTICIPANTS

№	Name of workshop participant	Organization	Position
1	Mr. Nariman Kipshkbaev		Project coordinator
2	Mr. Fritz Schwaiger	Posch & Partners Cons. Engineers	Project Manager
3	Mr. Roman Solodchenko	The World Bank country office in Kazakhstan	Acting Country Manager
4	Mr. Evgeny Tyrtysny	The World Bank country office in Kazakhstan	Operations Officer, Environment, Water supply and Water resources
5	Mr. Zhakai Nurgaliev	Akimat of Pavlodar oblast	Deputy Akim
6	Mr. Kuandyk Mahambetov	Department of agriculture, Pavlodar oblast	Chief
7	Mr. Almaz Ibragimov	JSC “Aluminum of Kazakhstan”	President
8	Mr. Rustem Bekturov	JSC “Pavlodar petroleum chemical plant”	Director
9	Mr. Anuarbek Omurbaev	JSC “Pavlodar petroleum chemical plant”	President
10	Mr. Gennadiy Tkachev	Oblast fish protection inspection	Chief
11	Mr. Rafael Shakirov	Republic State enterprise of water ways	Director
12	Mr. Zhumazhan Aubakirov	Management of state flora and fauna control	Chief
13	Mr. Alexander Bulyshev	JSC "KAZCHROM"	Chief of department
14	Mrs. Tatyana Ponomar	Pavlodar oblast department of environment protection	Leading specialist
15	Mr. Evgeniy Trusov	Pavlodar oblast fund of EP	Chief
16	Mr. Victor Baizhumanov	JSC "Kazakhstantractor"	Director

17	Mr. Sergei Pavlov	JSC "Pavlodar energy"	Nature protection dept chief
18	Mr. Vladimir Kondratiev	East Kazakhstan hydrometeorology center	Chief
19	Mr. Aglash Saduov	Pavlodar oblast forestry and bio resources management	Chief of fauna dept
20	Mr. Zhanaidar Ramazanov	Association "Velikiy Irtysk"	President
21	Mr. Tokbolat Iskakov	Association "Velikiy Irtysk"	Vice-President
22	Mrs. Olga Choman	"Pavlodar-Vodocanal" Ltd	Engineer
23	Mr. Michail Levchenko	JSC "Gorvodocanal" Aksu city	Senior Engineer
24	Mr. Sergei Sokolov	SCE "Ekibastuzsu"	Director
25	Mr. Vladimir Fenev	JSC "EAK"	Senior Engineer
26	Mr. Amangali Amangaliev	JSC "EAK"	Chief of PTO
27	Mr. Leonid Batalov	RSE "Satpaev's canal"	Chief of PTO
28	Mr. Aleksei Nagamov	Pavlodar hydrometeorology center	Director
29	Mrs. Lubov Zekurenko	Department of water industry	Leading Specialist
30	Mrs. Natalya Koroleva	Department of water industry	Head of Department
31	Mr. Valeriy Levchenko	RSE "Pavlodarvodhoz"	Director
32	Mr. Maksut Shantemirov	Pavlodar State University	PHD in technical sciences
33	Mrs. Svetlana Mogiluk	Pavlodar State University	Tutor of Ecology Chair
34	Mr. Boris Nazarenko	Territorial management of Ministry of agriculture	Deputy Head
35	Mr. Elubai Kystaubaev	Management of melioration and water industry	Leading specialist
36	Mr. Naukanbek Ryspaev	Regional association of water resources and EP	Chairman
37	Mr. Mergalym Mergenbaev	"Atlas" Ltd	Director

38	Mr. Nurbek Syzdykov	JSC "River port"	President
39	Mr. Mazit Isenov	"Vostokburvod" Ltd	Director
40	Mr. Salembai Ermuratov	Oblast radio	
41	Mr. Victor Malkovskiy	Irtysk RBA	Chief
42	Mr. Victor Nedovesov	JSC "Kegok"	President of Eastern Electric mains
43	Mr. Boris Anpilogov	Ust-Kamenogorsk Hydroplant	Director
44	Mr. Anatoliy Sarkisov	JSC "Kaz zinc"	Chief
45	Mr. Asylbek Bilembaev	Pavlodar oblast forestry and bio resources management	Head of fishery dept.