

# Annex A

## Decision GCSS.VII/7 of the Seventh Special Session of the Governing Council/Global Ministerial Environment Forum

### Environmental situation in the Occupied Palestinian Territories

The Governing Council,

Recalling its decisions 20/2 of 5 February 1999 and 21/16 of 9 February 2001 on the environmental situation in the Occupied Palestinian Territories,

Taking note of the report presented by the Executive Director,<sup>1</sup>

Conscious of the need to respond to the decisions of the Governing Council comprehensively,

Gravely concerned over the continuing deterioration and destruction of the environment in the Occupied Palestinian Territories,

Encouraged by the recent invitation extended to the Executive Director by the two concerned parties to visit the region,

1. Requests the Executive Director to visit the area as soon as possible with a view to establishing a framework and modalities of the study requested by the Governing Council in decisions 20/2 and 21/16;

2. Requests the Executive Director to designate a team of the United Nations Environment Programme experts to prepare a desk study outlining the state of environment in the Occupied Palestinian Territories and to identify major areas of environmental damage requiring urgent attention;

3. Also requests the Executive Director to undertake field studies, as deemed necessary, with the objective of proposing remedial measures to improve the environmental situation in the Occupied Palestinian Territories and by implementing existing agreements for improving the environment in the area;

4. Urges the Executive Director to take all necessary steps, on an urgent basis, to:

(a) Coordinate the activities of the United Nations Environment Programme in the area, including the implementation of this decision;

(b) Follow up the findings and recommendations of the United Nations Environment Programme study and assist the Palestinian Ministry of Environmental Affairs in its efforts to address the urgent environmental needs in the Occupied Palestinian Territories;

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<sup>1</sup> UNEP/GCSS.VII/4/Add.3.

5. Invites all the parties concerned to cooperate with the Executive Director in the implementation of this decision;

6. Requests the Executive Director to report on the implementation of this decision to the Governing Council at its twenty-second regular session.

6th meeting  
15 February 2002

## Annex B

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# Annex C

## List of institutions and sites visited

### **Institutions visited in the Occupied Palestinian Territories:**

Al-Bireh Municipality  
Al-Quds University  
Applied Research Institute of Jerusalem (ARIJ)  
Bethlehem University  
Birzeit University, Institute of Water Studies  
Environmental Quality Authority  
Friends of the Earth Palestine  
Hebron Municipality  
Heinrich Böll Foundation  
Land Research Center- Jerusalem  
LAW-The Palestinian Society for the Protection of Human Rights and the Environment  
Palestinian Hydrology Group  
Ramallah Municipality  
The Joint Environmental Mediation Services - Jerusalem (JEMS)  
The Palestine Red Crescent Society (PRCS)  
The Palestinian Academic Society for the Study of International Affairs (PASSIA)  
The Palestinian Environmental Non-Governmental Organizations Network (PENGON)  
The Palestinian Water Authority (PWA)  
Water & Soil Environmental Research Unit (WSERU)  
Wildlife Palestine Society (WLPS)  
World Bank Office, Ramallah

### **Institutions visited in Israel:**

Friends of the Earth - Middle East (FoEME)  
Israeli Ministry of Environment  
Israeli Ministry of Foreign Affairs  
Israeli National Commission for UNESCO  
Israeli Nature and National Parks Protection Authority  
Israeli Union for Environmental Defense  
Israel/Palestine Center for Research and Information (IPCRI)  
Society for the Protection of Nature in Israel (SPNI)  
The Hebrew University of Jerusalem  
The International Center for the Study of Bird Migration

**Other institutions visited:**

AFES – PRESS, Peace Research and European Security Studies  
OCHA, UN Office for the Coordination of Humanitarian Affairs  
UNFPA, the United Nations Population Fund  
UNRWA, the United Nations Relief and Works Agency for Palestine Refugees in the Near East  
USAID – Middle East; the United States Agency for International Development  
UNDP / PAPP, the United Nations Development Programme / Programme of Assistance to the Palestinian People

**Towns and Sites visited in the Occupied Palestinian Territories and Israel:**

Al Bireh  
Al Arrub Agricultural Station  
Beit Anoun  
Beit Lahia WasteWater Treatment Plant  
Bethlehem  
Birzeit  
Durah  
Emek Hefer region  
Gaza City  
Halhul  
Henron  
Hebron (Al Khalil)  
Jenin  
Jerusalem  
Kibbutz Hafetz Hayim  
Ramallah  
Saeir  
Shyoukh  
Tel Aviv - Yafo  
Wadi Al Samen  
Wadi Gaza  
Wadi Hasska  
Wadi Al Quff  
Sansan nature reserve

## **Annex D**

# **Israeli-Palestinian Joint Water Committee. Joint declaration for keeping the water infrastructure out of the cycle of violence.**

The Israeli and Palestinian sides view the water and waste water sphere as a most important matter and strongly oppose any damage to water and wastewater infrastructure.

The two sides are taking all possible measures to supply water and treat wastewater in the West Bank and Gaza Strip, even in the difficult circumstances of the recent months.

The two sides wish to bring to public attention that the Palestinian and Israeli water and wastewater infrastructure is mostly intertwined and serves both populations. Any damage to such systems will harm both Palestinians and Israelis.

A special effort is being made by the two sides to ensure the water supply to the Palestinian and Israeli cities, towns and villages in the West Bank and Gaza Strip. In order for this effort to succeed, we need the cooperation and support of all the population, both Israeli and Palestinian. We call on the general public not to damage in any way the water infrastructure, including pipelines, pumping stations, drilling equipment, electricity systems and any other related infrastructure.

The two sides also call on those involved in the current crisis not to harm in any way the professional teams that conduct regular maintenance or repair damage and malfunctions to the water and wastewater infrastructure.

Both sides wish to take this opportunity to reiterate their commitment to continued cooperation in the water and wastewater spheres.

Done at the Erez Crossing, This 31 January 2001.

*Noah Kinarty*  
*Head of the Israeli side to the JWC*

*Nabil El-Sherif*  
*Head of the Palestinian side of the JWC*

## **Annex E**

# **Excerpts from the Palestinian National Water Plan**

The following excerpts are taken from the Palestinian National Water Plan of 2000, and refer to Palestinian projected water demand.

“It can be seen that overall demand for water in the Occupied Palestinian Territories is projected to more than double, from 348 Mcm/yr in 2000 to 846 Mcm/yr in 2020. It should be noted that the year 2000 figure is an unrestricted demand and that the present situation is constrained by the available supply of only 269 Mcm/yr. The major growth will be in Municipal and Industrial demand by almost four fold from 133 Mcm/yr to 472 Mcm/yr, whereas agricultural demand is projected to grow from 215 Mcm/yr to 374 Mcm/yr.” (p. C.1-2)

“Considering the growing population and very scarce water resources in the region, economic utilization of water is one of the most important key policies in formulating the development strategy in Palestine. In accordance with PWA policy principles that water is an economic good, pricing and market forces will have to be taken into account together with other considerations. The projected demand developed by this strategy would result in Municipal and Industrial demand almost quadrupling from 133 million Mcm/yr today to 472 Mcm/yr in 2020 and agricultural demand almost doubling from 215 Mcm/yr to 374 Mcm/yr in the same period.” (p. 4)

“The projected demand in the Gaza Strip will almost double in the same period from 146 Mcm/yr in 2000 to 262 Mcm/yr in 2020. The growth will be totally in the Municipal and Industrial demand from 55 Mcm/yr to 182 Mcm/yr with Agricultural demand projected to decrease from 91 Mcm/yr to 80 Mcm/yr due to the lack of land for further agriculture and improved agricultural practices.” (p. C.1-2)

“Demand in the West Bank is projected to increase by almost three fold from 202 Mcm/yr to 584 Mcm/yr with Municipal and Industrial growing by almost four fold from 78 Mcm/yr to 290 Mcm/yr and Agriculture more than doubling from 124 Mcm/yr to 294 Mcm/yr to satisfy not only the increasing demand in the West Bank but also the unsatisfied demand in the Gaza Strip due to lack of land there.” (p. C.1-3)

“Groundwater will continue to be the major source of resource development in the West Bank over the next 20 years for both Municipal and Industrial and Agricultural demands. Surface water however will have to make an increasingly significant contribution from 2010 onwards to satisfy the growing agricultural demand. Wastewater re-use and brackish water will also have to be utilized in the latter part of the planning period to satisfy overall demand.” (p. B.2-5)

“By 2010, the introduction of surface water, wastewater re-use and the incorporation of brackish sources are planned to reduce the dependence on the freshwater aquifer for agriculture. However this would not be sufficient still at this date, in order to eliminate the continued temporary dependence on a great quantity of fresh water until this is required for domestic supply” (p.C.2-8)

**“Resource Development in the Gaza Strip, 2000 to 2020**

	<b>2000 Water Development (million m<sup>3</sup> per year)</b>	<b>2010 Water Development (million m<sup>3</sup> per year)</b>	<b>2020 Water Development (million m<sup>3</sup> per year)</b>
Coastal Aquifer *	55	100	148
Wastewater re-use	0	34	63
Brackish groundwater	51	32	0
Mekorot	5	10	10
Desalination	0	47	57
Storm water recharge	3	5	7
<b>Total</b>	<b>114</b>	<b>228</b>	<b>285</b>

All figures in MCM/yr

*\* Note that this table assumes no transfer of resources from the West Bank to Gaza. If surplus water resources are available in the West Bank after negotiations, then transfer of water can be considered in order to reduce the quantity of desalinated water required*

*\* Includes natural recharge and return flow from municipal, industrial and agricultural systems.” (p. B.2-6)*

**“Resources Development in the West Bank, 2000 to 2020**

	<b>2000 Water Development (million m<sup>3</sup> per year)</b>	<b>2010 Water Development (million m<sup>3</sup> per year)</b>	<b>2020 Water Development (million m<sup>3</sup> per year)</b>
Mountain Aquifer *	133	311	388
Surface Water	0	50	112
Wastewater re-use	0	2	39
Brackish groundwater	0	15	45
Mekorot	22	16	0
<b>Total</b>	<b>155</b>	<b>394</b>	<b>584</b>

All figures in MCM/yr

*\* Note that this table assumes no transfer of resources from the West Bank to Gaza. If surplus water resources are available in the West Bank after negotiations, then transfer of water can be considered in order to reduce the quantity of desalinated water required*

*\* Includes natural recharge and return water from municipal, industrial and agricultural systems” (p. B.2-8)*

## Annex F

### List of acronyms, abbreviations and units

ACSAD	Arab Center for Studies of Arid Lands and Desertification
AHLC	Ad Hoc Liaison Committee
ALECSO	Arab League Educational, Cultural and Scientific Organization
AOAD	Arab Organization for Agricultural Development
APELL	UNEP's Awareness and Preparedness for Emergencies at a Local Level
ARIJ	Applied Research Institute – Jerusalem
BOD	Biochemical oxygen demand
CAMP	Coastal Aquifer Management Programme
CAMRE	Council of Arab Ministers Responsible for Environment
CBD	Convention on Biological Diversity
CCD	Convention to Combat Desertification
CITES	Convention on International Trade in Endangered Species of Wild Fauna and Flora
CMS	Convention on Migratory Species
DU	Depleted uranium
DURP	Department of Urban and Rural Planning
EIA	Environmental Impact Assessment
EPD	Environment Planning Directorate
EQA	Environmental Quality Authority (formerly Ministry of Environmental Affairs)
EU	European Union
EWG	Multilateral Working Group on the Environment
GDP	Gross Domestic Product
GEF	Global Environment Facility
GIWA	Global International Waters Assessment
HDPE	High-density polyethylene
IAEA	International Atomic Energy Agency
IUCN	The World Conservation Union.
JEEC	Joint Environmental Experts Committee
JLC	Joint Liaison Committee
JWC	Joint Water Committee
LACC	Local Aid Coordination Committee
MAP	Mediterranean Action Plan
MCM	Million cubic metres
MCSD	Mediterranean Commission on Sustainable Development
MEA	Multilateral Environmental Agreement
MEaA	Ministry of Environmental Affairs
MLG	Ministry of Local Government Affairs
MOPIC	Ministry of Planning and International Cooperation

NBSAP	National Biodiversity Strategy and Action Plan
NEAP	National Environment Action Plan
NGO	Non-Governmental Organisation
PCB	Polychlorinated biphenyls
PCT	Polychlorinated terphenyls
PDP	Palestinian Development Plan
PEA	Palestinian Environmental Authority
PECDAR	Palestinian Economic Council for Development and Reconstruction
PLC	Palestinian Legislative Council
PNA	Palestinian Authority
PVC	Polyvinylchloride
PWA	Palestinian Water Authority
SMAP	Short and Medium-Term Priority Environmental Action Plan
SRAP	Sub-Regional Action Programme under the CCD
SWGs	Sector Working Groups
UNDP	United Nations Development Programme
UNEP	United Nations Environment Programme
UNFCCC	United Nations Framework Convention on Climate Change
UNICEF	United Nations Children's Fund
UNRWA	United Nations Relief and Works Agency for Palestine Refugees in the Near East
UNSCO	Office of the United Nations Special Coordinator
USAID	United States Agency for International Development
USD	United States Dollars
WHO	World Health Organisation
WSSD	World Summit on Sustainable Development
WWTP	Waste Water Treatment Plant

# Annex G

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# Annex H

## Technical information on satellite image analysis

### 1. LAND COVER

#### **Description**

*The MOD12Q1 Land Cover Product (MODIS/Terra Land Cover 96 Day L3 Global 1 km ISIN Grid) supplies an IGBP land cover classification map of the globe along with an assessment of the quality or confidence that is placed in that classification.*

#### **Documentation**

<http://geography.bu.edu/landcover/userguide/lc/intro.html>

#### **Data download**

<http://duckwater.bu.edu/lc/mod12q1.html>

The most current data product available is nominal data day 2000289, version 3. The data set name to search for at the EDC DAAC is "MODIS/TERRA LAND COVER TYPE 96-DAY L3 GLOBAL 1KM ISIN GRID V003".

#### ***Map legend***

*The IGBP classification has been chosen, with the following themes:*

Water	0
Evergreen needleleaf forest	1
Evergreen broadleaf forest	2
Deciduous needleleaf forest	3
Deciduous broadleaf forest	4
Mixed forests	5
Closed shrubland	6
Open shrublands	7
Woody savannas	8
Savannas	9
Grasslands	10
Croplands	11
Barren or sparsely vegetated	12
Urban and built-up	13

For the area under consideration, only a subset of these is represented:

**Urban and Built-up**

**Croplands**

**Grasslands**

**Shrublands (open and closed)**

**Woody savannas**

**Savannas**

**Barren or sparsely vegetated**

## **Water**

### **Representativity**

The map represents the land cover state in 2000. Every subsequent year, a similar MOD12Q1 Land Cover Product is prepared following the same methodology, thus enabling diachronic comparisons.

## **2. LAND COVER CHANGES IN THE NORTH OF GAZA**

### **Description**

Diachronic analysis of two Landsat TM images to show the evolution of land cover in the northern part of Gaza between 1987 and 2001.

### **Methodology**

As the whole area is almost flat, there was no need for a topographic correction prior to the cartography of land cover. The same thematic classes have been used as in the analysis for Bethlehem, but they have been defined through a supervised classification:

- Several spectral subclasses were defined on the basis of six TM band signatures, for each of the thematic classes, except water (vectors from visual interpretation).
- Training sites were chosen also with the help of high resolution Ikonos imagery.
- Classification was done by maximum likelihood algorithm using ERDAS Imagine.

Several trials were performed, so as to minimize omission and commission errors.

## **3. DECLINE IN LEVEL OF THE DEAD SEA**

### **Description**

Diachronic analysis of three Landsat TM images to show the drop in the Dead Sea level between 1973 and 2000.

### **Methodology**

For each date, a water mask was defined by thresholding the NIR channels of the Landsat images (MSS4 for 1973, TM4 for 1987 and 2000). These masks were overlaid, yielding the following three classes: Water present in 1973 and 2000; Water in 2000 only; and Water in 1973 only.