



Palestinian National Authority  
Palestinian Water Authority



السلطة الوطنية الفلسطينية  
سلطة المياه الفلسطينية



Sustainable Management of the West Bank and Gaza Aquifers

UNIVERSITY OF  
NEWCASTLE



NERC British  
Geological  
Survey

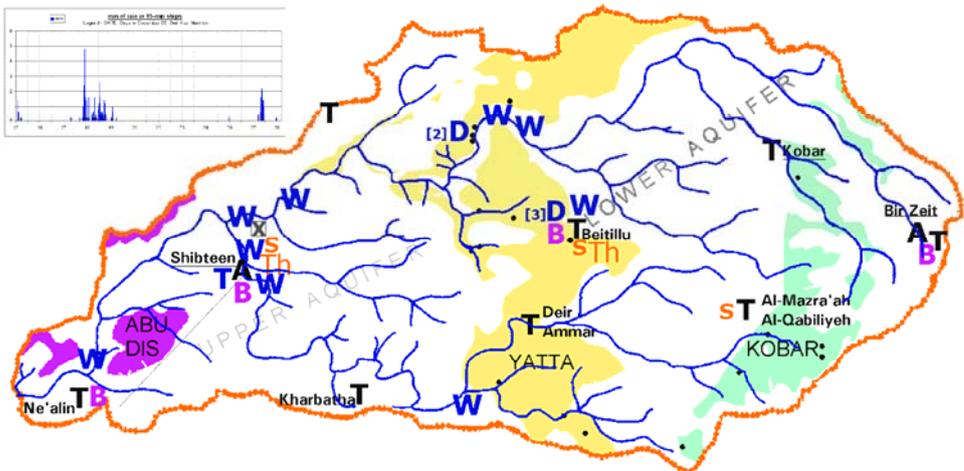
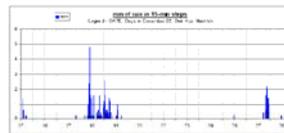


Department  
for  
International  
Development

**DFID**

## Field Trip to Wadi Natuf catchment area: Investigation of possible run-off measurement sites and accessible roads to the sites

January 20, 2003



**Final Report**  
SUSMAQ-NAT # 17 V 0.1

**Prepared by:**  
**SUSMAQ TEAM**

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<p><b>Disclaimer</b></p> <p>This report is an output from the Natuf Recharge Estimation Component, part of the SUSMAQ project.</p> <p>The findings, interpretations and conclusions expressed are those of the authors (the team) and should not be attributed to other collaborators on the SUSMAQ project.</p> <p>The project does not guarantee the accuracy of the data included in this publication. Information shown in maps, figures, tables and the text does not imply any judgment on legal status of territory or the endorsement of boundaries. The typescript of this paper has not been prepared in accordance with procedures appropriate to formal printed texts, and the partners and funding agency accept no responsibility for errors.</p>	<p><b>Contact Details</b></p> <p>Professor Enda O'Connell Project Director University of Newcastle upon Tyne Tel: 0191 222 6405 Fax: 0191 222 6669 Email: P.E.O'Connell@ncl.ac.uk</p> <p>Engineer Fadle Kawash Deputy Chairman Palestinian Water Authority Ramallah, Palestine Tel:02 295 9022 Fax 02 2981341 Email: fkawash@pwa-pna.org</p> <p>Dr. Amjad Aliewi Operations and Technical Manager Team Leader, Hydrogeology and Flow Modelling Sunrise Building Al-Irsal Road Al-Bireh/Ramallah, Palestine Tel. 02 298 89 40 Fax. 02 298 89 41 e-mail: a.s.aliewi@susmaq.org</p>
<p><b>The SUSMAQ Project</b></p> <p>The aim of the project is to increase understanding of the sustainable yield of the West Bank and Gaza aquifers under a range of future economic, demographic and land use scenarios, and evaluate alternative groundwater management options. The project is interdisciplinary, bringing together Hydrogeologists and groundwater modellers with economists and policy experts. In this way, hydrogeological understanding can inform, and be informed by, insights from the social sciences. The results of the study will provide support to decision-making at all levels in relation to the sustainable yield of the West Bank and Gaza aquifers.</p> <p>The project runs from November 1999 to October 2004, and is a partnership between the Palestinian Water Authority, University of Newcastle and British Geological Survey. The project is funded by the United Kingdom's Department for International Development (DFID).</p>	<p><b>Recharge estimation in Wadi Natuf</b></p> <p>The Recharge estimation in Wadi Natuf catchment area is part of the SUSMAQ project.</p> <p>The recharge assessment focuses on a catchment east of Birzeit down to the Green Line. It aims to get a better understanding of the mechanisms that control recharge and its quantities.</p> <p>Primary data have to be produced, covering meteorological data such as rainfall and evaporation, surface water data such as run-off, groundwater data such as spring discharge, water levels and water quality of surface and groundwater and other hydrogeological data such as karst features, aquifer characteristics and vulnerability.</p>
<p><b>Bibliographical Reference</b></p> <p>Report No.: SUSMAQ-NAT #17 V0.1. Field Trip to Wadi Natuf catchment area: Investigation of possible run-off measurement sites and accessible roads to the sites - January 20, 2003, . Sustainable Management for the West Bank and Gaza Aquifers, Palestinian Water Authority (Palestine) and University of Newcastle upon Tyne (UK).</p> <p><b>Authors and Contributors:</b></p> <p><b>Dr. Amjad Aliewi</b> – Team Leader</p> <p><b>Clemens Messerschmid</b>, Research and Coordination Advisor,</p> <p><b>Abbas Kalbouneh</b> – Hydrogeology Researcher,</p>	<p><b>Feedback</b></p> <p>The SUSMAQ and PWA teams will appreciate any feedback on this report. Feedback should be sent to the above contacts.</p>



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