

Community & Stakeholders Consultation Sessions Report

Conducted, on behalf of UN Habitat, for the full project proposal to be submitted to the Adaptation Fund, titled ***‘Increasing the resilience of both displaced persons and host communities to climate change-related water challenges in Jordan and Lebanon.’***

This assessment document focuses on the proposed concrete adaptation measures in Jordan



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List of Abbreviations

AF	Adaptation Fund
AF's ESP	Adaptation Fund Environmental & Social Policy
CC	Climate Change
CEDAW	Convention on the Elimination of All Forms of Discrimination Against Women
DOS	Department of Statistics
EE	Executing Entity
EIA	Environmental Impact Assessment
ESIA	Environmental and Social Impact Assessment
ESMMP	Environmental and Social Risks Management & Monitoring Plan
ESMP	Environmental and Social Management Plan
GoJ	Government of Jordan
HFDJB	The Hashemite Fund For Development of Jordan Badia
ILO	International Labour Organization
JNCW	Jordan National Commission for Women
JOHUD	Jordanian Hashemite Fund for Human Development
JUST	Jordan University for Science and Technology
JVA	Jordan Valley Authority
MCM	Million Cubic Meters
MIE	Multilateral Implementing Entity
MoEnv	Ministry of Environment
MPWH	Ministry of Public Works and Housing
MWI	Ministry of Water and Irrigation
NARC	National Agricultural Research Center
RSCN	Royal Society for the Conservation of Nature
WAJ	Water Authority of Jordan

WSD	Water Saving Devices
WWTP	Wastewater Treatment Plant
YWC	Yarmouk Water Company

INTRODUCTION

According to the scope of work of the Environmental & Social Impact Assessment (ESIA) study for the proposed project, several comprehensive consultation sessions were conducted facilitated by an accredited national consultant for conducting ESIA's. The stakeholders engagement expert was commissioned by the NIE (UN-HABITAT) to carry out consultations with national stakeholders (locals, Syrian refugees, youth, women, official agencies and donors), a step that represents an important phase of the ESIA for the project, as it identifies the stakeholders concerns about the project activities in relation to the major environmental and social aspects. The Consultant ensured adequate coverage in the consultation process of all stakeholders that may be affected negatively or positively or may interact with the project including regulatory authorities, non-governmental organizations (NGOs), local communities' representatives and DPs including Syrian refugees. Several consultation sessions were held at different locations in northern of Jordan where the project is intended to take place. The following is a list of these locations with the date on which such consultation sessions were conducted:

- 1) For the **Wastewater Treatment Plants' (WWTPs) operational enhancement and wastewater reuse** activities around them, several consultations were conducted :
 - a) Consulted for the Mearad and Al Akaider WWTP at Jarash, at the Princess Basma Community Development Centers JOHUD on the 2nd of Sept, and for both Jordanians & Syrian Refugees on the 10th of September, 2019, for Syrian refugees respectively (Figures 1 & 2). Refer to Annex (1) "A" to view the attendees list.
 - b) Consulted on WW reuse at Al Shayah Library in Ramtha, on the 3rd & 11th of September 2019, for both Jordanians & Syrian refugees respectively (Figure 3). Refer to Annex (1) "B" to view the attendees list.

- c) Consulted on Mafraq WWTP at Mugayyir As-Sirhan with Jordanians and Syrians via the Hashemite Fund for Development of Jordan Badia on the 19th of September Refer to Annex (1) “C” to view the attendees list.

These meetings were held to assess Environmental & Social Issues and concerns from the perspective of the farmers, Syrian refugees working on farms (males and females) and youth from local community and other stakeholders. Such meetings aimed at investigating the WWTPs interventions and assess the environmental and social issues at these plants as well. These meetings were also held to explain what is climate change and how to adapt to its potential impact in Jordan. Also to hear from the local farmers & refugees and local community what their needs and demands are, their socio-economic and environmental concerns in accordance to the AF’s ESP, their needs to increase the quantity of food production and the measures needed to be implemented to encourage them to use the wastewater that is treated in accordance with the 893/2006 standards to irrigate their crops.

- 2) For the **Rainwater Harvesting activities at Schools** (for both Jordanian and Syrian Students) in the Northern Governorates, several consultations were conducted :
 - a) Aydoun Basic School for boys, Irbid on the 11th of September 2019
 - b) Asmaa Bint Amais mixed School in Ramtha on the 25th of September 2019
 - c) Hay Al-Elemat High School for Girls, in Mafraq on the 26th of September 2019

These meetings were held to discuss general issues and concerns identified for the Installation of Rainwater Harvesting Systems at these schools.

- 3) More Consultations were held for the **Rain Water and Grey Water systems in mosques,** held at:

- a) Al Quds Mosque, in Ramtha on the 11th of September 2019
- b) Princess Basma Community Development Center JOHUD in Irbid on the 18th of Sept, 2019 (Figure 2)
- c) Mafraq Mosque for Jordanians and Syrian worshippers at Mogheyr al Serhan(males and Females) on the 19th of September.

These meetings were held to assess Environmental & Social Issues and concerns regarding the installation of Rain Water and Grey water systems in mosques. And to hear from Syrian Refugees what their demands and concerns are, with regard to water availability in general and access to water in mosques, this in addition to understand the possible social and environmental issues and impacts that might arise during or after the installation of grey water & rainwater harvesting systems in mosques at Irbid Governorate.

4) Consultations held for the Permaculture

- a) Jordan University of Science and Technology (JUST), in Irbid on the 18th of Sept, 2019

The meeting was held to assess Environmental & Social Issues that might arise as a result of the implementation of the Permaculture Project in JUST. This meeting was held to hear from the university faculty and students both males & females what their understanding of such new concept in agricultural practices, issues, demands and concerns in relation to CC adaptation. This is in addition to understand the possible social and environmental issues and impacts that might arise during or after the application of permaculture concept at JUST.

CONSULTATION PROCESS DESCRIPTION, DOCUMENTATION AND PHOTOS



Figure 1 Consultation session at Princess Basma Community Development Centers JOHUD in Jerash for the Mearad and Al Akaidar WWTP



Figure 2 Consultation at Princess Basma Centre Jerash-Al Kitteh on ww reuse with Jordanian and Syrian female farmers



Figure 3 Consultation at Al Shayah Library in Ramtha for Syrian Refugees on WW reuse for Ramtha and Al Akaidar WWTPs

The activities undertaken in all Consultation sessions and the findings are described below.

At the beginning of each session, each participant was provided with information package consisted of a project summary and an overview of the project activities for all phases of the project in Arabic. Some comments were raised and clarifications provided by the ESIA consultant, JOHUD, Hashemite Fund, and UN-Habitat project team, and other authority figures were made during the presentation.

Furthermore each participant was handed a survey which included tables to fill out their concerns and possible environmental & social impacts they believe might arise in three different phases and the policies they need to comply with in relation to the AF's ESPs (Commencing of activities, Operation & Decommissioning phases). Below are the sub-activities for each phase:

PROJECT ACTIVITIES ACCORDING TO PHASES AS PRESENTED IN THE CONSULTATION SESSION FOR THE THREE WWTPS OPERATIONAL ENHANCEMENT:

Activities discussed through the phases of the project were as follows:

Beginning of WWTP Operational Enhancement Activities:

- 1) Rehabilitation of pipes, treatment pools and other infrastructures
- 2) Enhancing the WWTP operational performance and raising its efficiency
- 3) Increased pond storage capacity through lining the existing ponds
- 4) Improve the quality of wastewater effluent from the plant etc...

Operation Phase

- 1) Restart the new capacitive station
- 2) Hire new engineers or workers to supervise ponds rehabilitation
- 3) Pumping better quality of treated wastewater
- 4) Routine and emergency maintenance.

Decommissioning Phase

- 1) Disposal and transportation of equipment.
- 2) Remove buildings and get rid of landfills and waste.
- 3) Reclamation of the factory site.
- 4) Cessation of activities and services (employment)

Below are all mentioned and raised issues in the survey, which will be further assessed & monitored as part of the ESMMP study. Moreover, potential interactions of these issues will be specified and evaluated with respect to the 15 AF Environmental & Social Principles, (see tables below), and following valued environmental components (VECs):

- Natural environment (biodiversity, air, surface water, groundwater, and soil).
- Air quality.
- Public health and safety.
- Occupational health and safety.
- Socio-economic conditions.
- Archeology.

Major Environmental & Social Issues and Concerns for the WWRPs Operational Enhancement Projects

The general issues and concerns identified by Jordanian local community farmers (Table 1) for all project phases at AL Kitteh Jarash for (Al Me'rad WWTP and Al Akaider WWTPs):

Table 1 The general issues and concerns identified by Jordanian local community farmers for all project phases at AL Kitteh Jarash for (Al Me'rad WWTP and Al Akaider WWTPs):

Project Phases	Main Issue/ Concern	Adaptation Fund Environmental & Social Principles (AF ESP)
(1) Beginning of WWTP	Limited capacity of the existing wastewater storage tanks	Pollution Prevention and Resource Efficiency

Project Phases	Main Issue/ Concern	Adaptation Fund Environmental & Social Principles (AF ESP)
Enhancement Activities	Inadequate irrigation water distribution networks for both the local and Syrian refugee farmers which would affect the efficiency on the field.	Access and Equity
	Effect of potential oils and hazardous materials spillage from equipment on the adjacent areas Environment.	Conservation of Biological Diversity and public health
	Risk of noise and gases produced by machinery causing pollution in surrounding environment.	Public Health
	Potential water pollution during the upgrading process.	Public Health
	Generation of Employment Opportunities	Access and Equity.
	Poor wastewater treatment system, leading to farmers receiving poor wastewater quality	Pollution Prevention and Resource Efficiency
	Soil contamination from wastewater	Lands and Soil Conservation.
	Not cleaning the canals between the WWTPs and the flood channels/stream.	Pollution Prevention and Resource Efficiency

Project Phases	Main Issue/ Concern	Adaptation Fund Environmental & Social Principles (AF ESP)
(2) Operation Phase	Wastewater ponds pollution resulting in bad water odour.	Pollution Prevention and Resource Efficiency
	There's much precipitation in water leading to drip irrigation system blockage (wastewater quality Issues).	Pollution Prevention and Resource Efficiency
	The presence of pathogens	Public Health
	Some farmers accessing wastewater from the storage tank during rainfall season.	Access and Equity
	Impacts of pollution in the event of untreated ww leakage to groundwater	Pollution Prevention and Resource Efficiency
	Impact of increased water Salinity during irrigation on soil quality	Pollution Prevention and Resource Efficiency
	Risk of climate conditions on the availability of treated water.	Climate Change
	Laborer injuries while maintenance work is under progress.	Core Labour Rights, health and Safety
	Valleys and wells pollution due to treated wastewater uncontrolled release or leakage.	Protection of Natural Habitats

Project Phases	Main Issue/ Concern	Adaptation Fund Environmental & Social Principles (AF ESP)
	The potential of treated wastewater not meeting the Jordanian standards.	Compliance with the Law
	High content of heavy metals in treated water.	Public Health
	Having microorganisms in the treated water.	Public Health
	High risk of using treated wastewater for household works	Public Health

On the other hand, the general issues and concerns identified by Syrian refugees for project phases at AL Kitteh Jarash for (Al Me’rad WWTP and Al Akaider WWTPs) are depicted in Table 2.

Table 2 general issues and concerns identified by Syrian refugees for project phases at AL Kitteh Jarash for (Al Me’rad WWTP and Al Akaider WWTPs)

Project Phases	Main Issue/ Concern	Adaptation Fund Environmental & Social Principles (AF ESP)
(1)Beginning of WWTP Enhancement Activities	The rehabilitation period will have a major effect on traffic and accidents triggered by moving trucks & machines on the region's people.	Public Health
	The maintenance work carried out at the WTP will impact the WW plant and the wastewater distribution schedule	Pollution Prevention and Resource Efficiency

Project Phases	Main Issue/ Concern	Adaptation Fund Environmental & Social Principles (AF ESP)
	Oils and hazardous materials arising from equipment on the surrounding environment.	Protection of Natural Habitats
	Risk of dust particles, noise, and gases generated by the machinery	Public Health
	Worker injuries during ongoing maintenance work	Labor law, occupational safety and health
	Effect of inadequate irrigation wastewater distribution on both the local society and the refugees	Pollution Prevention and Resource Efficiency
	Risk of climate conditions on the availability of treated wastewater	Climate Change
	Leakage of untreated wastewater to groundwater	Pollution Prevention and Resource Efficiency
	Impact of increased wastewater salinity on irrigated agriculture and crops	Conservation of Biological Diversity and public health
	Crop contamination due to irrigating with treated wastewater that do not comply with Jordanian Standards	Conservation of Biological Diversity and public health
	Release poor/bad odor from improperly treated waste water.	Public Health
	High content of heavy metals in the treated wastewater.	Pollution Prevention and Resource Efficiency

Project Phases	Main Issue/ Concern	Adaptation Fund Environmental & Social Principles (AF ESP)
(2) Operation Phase	Having microorganisms in the treated wastewater.	Public Health
	High risk of using treated wastewater for household works	Public Health

General Recommendations & Demands of Jordanians & Syrians Stakeholders

The general recommendations and demands of Jordanians and Syrian stakeholders are shown in Table 3 (Jarash consultation sessions for Al Mearad and Al Akaider WWTPs):

Table 3 Jarash consultation sessions for Al Mearad and Al Akaider WWTPs:

Recommendations & Demands of Stakeholders	AF (ESP)
<ul style="list-style-type: none"> ▪ Revising the standard (JS 893/ 2007) that is not as rigid as the original and attach it to each contract the farmers sign with YWC or WAJ. 	Compliance with the Law
<ul style="list-style-type: none"> ▪ To provide lined wastewater storage pond for each farm 	Access and Equity

▪ Provide training courses and awareness-raising workshops that seek cognitive shift among locals in the consumption of water.	Access and Equity
▪ Provide Health care facilities	Public Health
▪ Place filters on the distributing wastewater pipes leaving the station	Pollution Prevention and Resource Efficiency
▪ Equity in distributing wastewater pipes and water provision	Access and Equity
▪ Provide efficient Water pumps	Pollution Prevention and Resource Efficiency
▪ Provide agricultural equipment and machinery (tractors, bailers, compactors, storage)	Access and Equity
▪ Dripping irrigation and subsurface irrigation networks with efficient emitters	Pollution Prevention and Resource Efficiency
▪ Provide Personal Protective clothing and equipment and toilets with wash facilities (personal Protective equipment such as gloves and headwear)	Public Health
▪ Install water gauges and meters at farm inlets	Pollution Prevention and Resource Efficiency
▪ Increase the per capita quantity of wastewater and apply fair distribution policy.	Access and Equity
▪ Provide on farm monitoring and control, to manage misuse and frivolity	Pollution Prevention and Resource Efficiency
▪ Increase pastoral animal numbers	Conservation of Biological Diversity
▪ Protect drainage system pipes.	Pollution Prevention and Resource Efficiency
▪ Provide job opportunities.	Human Rights
▪ Conduct frequent irrigation networks inspections and maintenance	Pollution Prevention and Resource Efficiency

Major Environmental & Social Issues and Concerns

Major environmental & social issues and concerns of Jordanian farmers and Syrian farm workers are shown in Table 4 (Al Ramtha WWTP Consultation Session for Jordanian farmers and Syrian farm workers) and Table 5 (Al Ramtha & Al Mafrq WWTPs and Reuse Consultation Sessions for Syrian Refugees)

Table 4 Al Ramtha WWTP Consultation Session for Jordanian farmers and Syrian farm workers

Project Phases	Main Issue/ Concern	Adaptation Environmental & Social Principles (AF ESP)
(1) Beginning of WWTP Enhancement Activities	Effect of oils and hazardous materials arising from the equipment on the area's adjacent Environment.	Conservation of Biological Diversity
	Spread of dust during operational enhancement activities	Pollution Prevention and Resource Efficiency
	Potential water pollution during the enhancement process	Pollution Prevention and Resource Efficiency
	Labor injuries while maintenance work is under progress	Core Labour Rights and Health and Safety
	Concern about the plastic bags that clog the wastewater effluent pumps	Pollution Prevention and Resource Efficiency
(2) Operation Phase	Risk of climate conditions on the availability of treated wastewater.	Climate Change
	Impacts of pollution in the event of untreated effluent leakage to groundwater	Pollution Prevention and Resource Efficiency
	Impact of increased irrigation wastewater salinity affecting soil	Lands and Soil Conservation.
	Valleys and wells pollution prevalence due to treated wastewater releases or leakage.	Protection of Natural Habitats and pollution prevention
	Release of poor/bad odor from wastewater causing air pollution.	Pollution Prevention and Resource Efficiency

	High content of heavy metals in treated wastewater.	Pollution and Efficiency	Prevention and Resource
	Having microorganisms in the treated water	Public Health	
	High risk of using treated water for household works	Public Health	
	Forcing the farmers to take treated wastewater in the winter season, leading to an increase in soil salinity	Pollution and Efficiency	Prevention and Resource
	Losing crops due to bad wastewater effluent quality	Conservation of Biological Diversity	

Table 5 Al Ramtha & Al Mafraq WWTPs and Reuse Consultation Sessions for Syrian Refugees

Project Phases	Main Issue/ Concern	Adaptation Environmental & Social Principles (AF ESP)	Fund & (AF)
(1) Beginning of WWTP Enhancement Activities	The rehabilitation period will have a major effect on traffic and potential accidents triggered by moving machines and traffic	Public Health	
	Generation of new Job opportunities	Access & Equity	
	The maintenance work carried out at the WWTPs will impact the operation and the wastewater distribution	Pollution Prevention and Resource Efficiency	
	Spread of dust during operational enhancement activities	Pollution and Efficiency	Prevention and Resource

	Labor injuries while maintenance work is under progress	Core Labour Rights and Health and Safety
	Concern about the plastic bags that clog the wastewater effluent pumps	Pollution Prevention and Resource Efficiency
(2)Operational Phase	Risk of climate conditions on the availability of treated wastewater.	Climate Change
	Impacts of pollution in the event of untreated effluent leakage to groundwater	Pollution Prevention and Resource Efficiency
	Impact of increased irrigation wastewater salinity affecting soil	Lands and Soil Conservation.
	Valleys and wells pollution due to treated wastewater releases or leakage.	Protection of Natural Habitats and pollution prevention
	Release of poor/bad odor from wastewater causing air pollution.	Pollution Prevention and Resource Efficiency
	High content of heavy metals in treated wastewater.	Pollution Prevention and Resource Efficiency
	Having microorganisms in the treated water	Public Health
High risk of using treated wastewater for household works	Public Health	
Losing crops due to bad wastewater effluent quality	Conservation of Biological Diversity	

General Recommendations & Demands of Stakeholders

The general recommendations & demands of stakeholders consulted are shown in Table 6 (Al Ramtha & Al Mafraq Consultation Sessions)

Table 6 Al Ramtha & Al Mafraq Consultation Sessions

Recommendations & Demands of Stakeholders	AF (ESP)
▪ Lower the treated wastewater prices	Access and Equity
▪ Establish farmer' association named "Al Ramtha water User Association"	Marginalized and Vulnerable Groups, & Access and Equity
▪ Provision of new machinery for planting	Access and Equity
▪ Farmers requested frequent maintenance of the WWTP & piping system	Pollution Prevention and Resource Efficiency
▪ Place filters ahead of treated effluent pumps to prevent sprinkles clogging and diseases from spreading	Public Health and resource efficiency
▪ Control foreign farmers' illegal access to artesian aquifers.	Access and Equity
▪ Support farmers in marketing their crops	Access and Equity
▪ Equality in treated water distribution	Access and Equity
▪ Conduct regular maintenance works for the water canals linking between the water pumps and farms	Pollution Prevention and Resource Efficiency
▪ Provide agricultural equipment and machinery at low prices. And use solar energy for pumping.	Access and Equity and Resource Efficiency
▪ Provide interest-free loans to farmers.	Access and Equity
▪ Work on lowering treated water prices from 50 cents to 10 cents.	Access and Equity
▪ Install pumps powered by solar energy.	Pollution Prevention and Resource Efficiency
▪ Use Drip irrigation.	Pollution Prevention and Resource Efficiency
▪ Removal and prevention of use of plastic bags disposed of in the canals linking between the treated wastewater pumps and farms.	Pollution Prevention and Resource Efficiency
▪ Provide additional spare electrical generators in the summer season, as the main generators may suddenly shut down.	Pollution Prevention and Resource Efficiency
▪ Install filters ahead of the effluent conveyance pipes pumping from the WWTP to the farms.	Public health

- Provide sand filters.

Pollution Prevention
and Resource
Efficiency

PROJECT ACTIVITIES ACCORDING TO PHASES FOR GREY WATER & RAINWATER HARVESTING SYSTEMS IN MOSQUES AND RAINWATER HARVESTING SYSTEMS AT SCHOOLS

The consultation session with Syrian refugees at Princess Basma Community Development Center JOHUD in Irbid is shown in Figure 1 while the consultation session at Al Quds Mosque, in Ramtha (Figure 2).



Figure 4 Consultation session with Syrian refugees at Princess Basma Community Development Center JOHUD in Irbid



Figure 5 Consultation session at Al Quds Mosque, in Ramtha

Activities discussed through the phases of the project were as follows:

Installation of Grey water & Rainwater harvesting Systems in Selected Mosques:

- Installation of base & floors for equipment.
 - Transportation and Installation of equipment and preparation of other infrastructure.
 - Installing pipes and connecting electricity and water when needed
-
- **Operation Phase**
 - Operating Grey water & Rainwater Harvesting Systems
 - Appoint technicians or guards to supervise the operation of treatment units
 - Routine and emergency maintenance.
-
- **Decommissioning Phase**
 - Disposal and transportation of equipment.
 - Remove any built infrastructure buildings and get rid of any waste material.
 - Rehabilitation of the site.
 - Cessation of activities and services (employment)

Below are all the mentioned issues in the survey, which were further assessed & monitored as part of the ESIA's ESMMP study. Moreover potential interactions of these issues will be specified and evaluated with respect to the 15 AF Environmental & Social Principles (ESP). Natural environment (biodiversity, air, surface water, groundwater, and soil).

- Air quality.
- Public health and safety.
- Occupational health and safety.
- Socio-economic conditions.
- Archeology.

Major Environmental & Social Issues and Concerns

General issues and concerns identified for Grey water treatment project at Greater Irbid Mosque are disputed in table 7.

Table 7 General issues and concerns identified for Grey water treatment project at Greater Irbid Mosque

Project Phases	Main Issue/ Concern	Adaptation Fund Environmental & Social Principles (AF ESP)
Installation	Risk of dust particles and noise generated by the machinery	Public Health
Operation	Impact of the bad odor of water that is released into the environment.	Public Health
Decommissioning	Noise-induced by dismantling of machinery	Public Health

General issues and concerns identified for the installation of rainwater harvesting systems at Greater Irbid Mosques are depicted in Table 8.

Table 8 General issues and concerns identified for the Installation of Rainwater Harvesting Systems at Greater Irbid Mosque

Project Phases	Main Issue/ Concern	Adaptation Fund Environmental & Social Principles (AF ESP)
Operation	Children slipping into rainwater tanks	Public Health
Operation	Contamination of collected Rainwater	Pollution Prevention & Resource Efficiency
Installation	Offering Job opportunities for the community	Marginalized & Vulnerable Groups
Operation	The change in precipitation seasons will affect the availability of water	Climate Change
Operation	Inability to pay workers	Core Labor Rights
Operation	The wage difference between various working nationalities or differences in pay schedules between locals and Syrian refugee worker	Core Labor Rights
Operation	Rise in ambient temperature might affect water availability	Climate Change
Decommissioning	Remaining waste and chemical disinfectants leftover may have a possible impact after the end of the equipment life.	Pollution Prevention & Resource Efficiency

General issues and concerns identified for wastewater reuse project at Ramtha mosques are shown in Table 9.

Table 9 General issues and concerns identified for wastewater reuse project at Ramtha Mosque

Project Phases	Main Issue/ Concern	Adaptation Fund Environmental & Social Principles (AF ESP)
Installation	Risk of dust particles & noise generated by the machinery	Public Health and Pollution Prevention
Operation	Significant danger on the biodiversity in the region from irrigating vegetables and fruits with gray water that do not comply with the Jordanian standards	Pollution Prevention & Resource Efficiency
Operation	Untreated water leakage	Protection of Natural Habitat
Operation	Bad odor of water that is released into nearby environment.	Public Health
	Water salinity on irrigation.	Lands and Soil Conservation.
Decommissioning	Effect of transferring equipment after its dismantling and the destiny of this equipment	Pollution Prevention & Resource Efficiency

General issues and concerns identified for Rainwater Harvesting project at Al Quds Mosque in Ramtha are shown in table 10.

Table 10 General issues and concerns identified for Rainwater Harvesting project at Al Quds Mosque in Ramtha

Project Phases	Main Issue/ Concern	Adaptation Fund Environmental & Social Principles (AF ESP)
Operation	Children slipping into rainwater tanks	Public Health
Operation	Contamination of collected Rainwater	Pollution Prevention & Resource Efficiency
Installation	Offering Job opportunities for the community	Marginalized & Vulnerable Groups
Operation	The change in precipitation seasons will affect the availability of water	Climate Change
Operation	Inability to pay workers	Core Labor Rights
Operation	The wage difference between various working nationalities or differences in pay schedules between locals and Syrian refugee worker	Core Labor Rights
Operation	Rise in ambient temperature might affect water availability	Climate Change
Decommissioning	Remaining waste and chemical disinfectants leftover may have a possible impact after the end of the equipment life.	Pollution Prevention & Resource Efficiency

General Recommendations & Demands of Jordanians and Syrian Refugees Attending Mosques:

Table 11 shows the general recommendations & demands of Jordanians and Syrian refugees attending the mosques in the area.

Table 11 general recommendations & demands of Jordanians and Syrian refugees attending the mosques in the area

Recommendations & Demands of Stakeholders	AF (ESP)
<ul style="list-style-type: none"> ▪ This program is crucial for all social groups focusing on vulnerable, displaced persons and low income groups. With the need for employment opportunities in the area. 	Vulnerable & Marginalized Groups
<ul style="list-style-type: none"> ▪ There are social, cultural and economic barriers preventing gender equality, it is highly recommended to implement awareness workshops that seek behavioral and attitude change among the participants. 	Gender equality and women's empowerment
<ul style="list-style-type: none"> ▪ Workers should be treated fairly; justice should be applied between them, and have documented contracts for the workers. 	Core labor rights
<ul style="list-style-type: none"> ▪ The creation and execution of a local commission, as stated by the refugees, would assist maintain and monitor the proposed project. 	Access & Equity
<ul style="list-style-type: none"> ▪ All those responsible parties must take the Committee into the grips and take accountability. 	Human Rights

Schools Rain Water Harvesting Systems

General issues and concerns identified for the Installation of Rainwater Harvesting Systems at (1) Aydoun Basic School for boys, Irbid; (2) Asmaa Bint Amais mixed School in Ramtha; (3) Hay Al-Element High School for Girls, in Mafraq (Table 12) (Figures 6,7, and 8) are posted below, which were held at the following dates

Dates:

(1) Wednesday, 11th of September 2019

(2) Wednesday, 25th of September 2019

(3) Thursday, 26th of September 2019

Attendees (mix of Jordanian and Syrian refugee students :

(1) UN-Habitat, Students; both locals and Majority Syrian refugees

(2) UN-Habitat, Students; both locals and Majority Syrian refugees

(3) UN-Habitat, 12th Grade (Scientific and Literary Stream) mix of Jordanian and Syrian students

Students listed in the attached attendees' form.

Table 12 General issues and concerns identified for the Installation of Rainwater Harvesting Systems at (1) Aydoun Basic School for boys, Irbid; (2) Asmaa Bint Amais mixed School in Ramtha; (3) Hay Al-Elamat High School for Girls, in Mafraq

Project Phases	Main Issue/ Concern	Adaptation Fund Environmental & Social Principles (AF ESP)
Operation	Children slipping into rainwater tanks	Public Health
Operation	Contamination of collected Rainwater	Pollution Prevention & Resource Efficiency
Operation	Availability of fresh water	Access & Equity
	Offering Job opportunities for the community	Marginalized & Vulnerable Groups
	The change in precipitation seasons will affect the availability of water	Climate Change
	Inability to pay workers	Core Labor Rights
	The wage difference between various working nationalities	Core Labor Rights
	Rise in Temperature might affect water availability	Climate Change

<i>Decommissioning</i>	Remaining waste and chemical leftover may have a possible impact after the end of the equipment life.	Pollution Prevention & Resource Efficiency
<i>Decommissioning</i>	Noise from the demolition of the equipment may have an enormous effect.	Public Health



Figure 6 Consultation session at Aydoun Basic School for boys, Irbid



Figure 7 Consultation session at Asmaa Bint Amais mixed School in Ramtha.



Figure 8 Consultation session at Hay Al-Elamat High School for Girls, in Mafraq

CONSULTATION ON PERMACULTURE AT JORDAN UNIVERSITY OF SCIENCE AND TECHNOLOGY PROCESS:

The activities undertaken in the Consultation session and the findings are described below.



Figure 9 Consultation session on Permaculture at Jordan University of Science and Technology, in Irbid

Consultation Session: At the beginning of the session, each participant was provided with information package consisted of a project summary and an overview of the project activities for all phases of the project in Arabic. Some comments and clarifications from UN-Habitat study team were made during the presentation.

Furthermore each participant was handed a survey which included tables for them to fill on their concerns and possible environmental & social impacts they believe might arise. Below are all the mentioned issues in the survey which will be further assessed & monitored as part of the ESMMP study. Moreover potential interactions of these issues will be specified and evaluated with respect to the 15 AF Environmental & Social

Principles (ESP). Natural environment (biodiversity, air, surface water, groundwater, and soil).

- Air quality.
- Public health and safety.
- Occupational health and safety.
- Socio-economic conditions.
- Archeology.

Major Environmental & Social Issues and Concerns for the implementation of Permaculture project

General issues and concerns identified for the implementation of Permaculture project are depicted in Table 13 while general recommendations and demands are shown Table 14.:

Table 13 General issues and concerns identified for the implementation of Permaculture project

Main Issue/ Concern	Adaptation Fund Environmental & Social Principles (AF ESP)
Significant effect of dust particles on the adjacent surroundings during excavations work.	Public Health
The use of chemical fertilizers on the land	Lands and Soil Conservation
Effect of irrigation with untreated water on plants	Conservation of Biological Diversity
Effects of using genetically modified seeds	Conservation of Biological Diversity
Accumulation of animal dung	Lands and Soil Conservation
Inequality and favoritism of benefit-sharing among beneficiaries.	Access & Equity
Presence of social, cultural and economic barriers to gender equality.	Gender Equity and Women's Empowerment

Main Issue/ Concern	Adaptation Fund Environmental & Social Principles (AF ESP)
Long working hours	Core Labor Rights
Inability to pay workers.	Core Labor Rights
The wage difference between various working nationalities.	Core Labor Rights
The proposed interventions/measures will have a beneficial effect on the surrounding environment.	Conservation of Biological Diversity
High air temperature.	Climate Change
Natural resources scarcity; water and soil	Climate Change

Table 14 general recommendations and demands with regard to for the implementation of Permaculture project

Recommendations & Demands of Stakeholders	AF (ESP)
<ul style="list-style-type: none"> ▪ To ensure equal access to benefits it is recommended to raise the awareness and disseminate information through social media and daily newspapers within a large segment of the university society. 	Access & Equity
<ul style="list-style-type: none"> ▪ There is a need for adequate transport system, employment opportunities, and better wage for the workers in the area. 	Core Labor Rights
<ul style="list-style-type: none"> ▪ This program is crucial for all social groups focusing on vulnerable, displaced persons, farmers and agricultural laborers, and low-income groups. 	Marginalized and Vulnerable Groups
<ul style="list-style-type: none"> ▪ Workers should be treated fairly, and that justice be applied between them and considering Jordanian Labor Law. 	Core Labor Rights
<ul style="list-style-type: none"> ▪ The development and implementation of a local committee would help the proposal to be maintained and monitored 	Access & Equity
<ul style="list-style-type: none"> ▪ What is expected from the interventions is to reduce emitted gases, increase vegetation coverage, enhance soil type, and adapt to climate change. 	Conservation of Biological Diversity
<ul style="list-style-type: none"> ▪ Types of soil found in the area are; Silty Loam Soil, Sandy Loam Soil, and Red Clay Soil. No legitimate impact has been recognized that could lead to the loss of soil. 	Lands and Soil Conservation

Annex (1) show the list of attendants for all consultation sessions

(A)

Attendees Sheet for Jordanian Farmers at Jarash

الصدوق الاردني الهاشمي للتنمية البشرية جهد

كشف حضور جلسة حوارية

التاريخ: ٢٠١٩ - ٩ - ٢٠
 المركز: /
 ميسر الجلسة:
 الموقع:

عبد السيد

#	الاسم	رقم الهاتف	الجهة	التوقيع
1	عبد الرحمن العوضي	٠٧٧٧٧٩٦٤٩٠	مركز ١٥٠٠٠٠٠٠٠٠٠٠٠٠	
2	مبارك الفهمي	٠٧٧٧٧٩٦٤٩٠	مركز ١٥٠٠٠٠٠٠٠٠٠٠٠٠٠	
3	مبارك الفهمي	٠٧٧٧٧٩٦٤٩٠	مركز ١٥٠٠٠٠٠٠٠٠٠٠٠٠٠	
4	محمد وائل	٠٧٧٧٧٩٦٤٩٠	مركز ١٥٠٠٠٠٠٠٠٠٠٠٠٠٠	
5	محمد وائل	٠٧٧٧٧٩٦٤٩٠	مركز ١٥٠٠٠٠٠٠٠٠٠٠٠٠٠	
6	عبد الرحمن العوضي	٠٧٧٧٧٩٦٤٩٠	مركز ١٥٠٠٠٠٠٠٠٠٠٠٠٠٠	
7	عبد الرحمن العوضي	٠٧٧٧٧٩٦٤٩٠	مركز ١٥٠٠٠٠٠٠٠٠٠٠٠٠٠	
8	عبد الرحمن العوضي	٠٧٧٧٧٩٦٤٩٠	مركز ١٥٠٠٠٠٠٠٠٠٠٠٠٠٠	

عبد السيد

9	محمد بويوب بن خنيان	٠٧٧٤٤٥٦٧٠٧	قلمون ٢٠١٦/٣/١٥
10	صبرية بطلانة العبدان	٠٧٧٤٤٥٦٧٠٧	قلمون ٢٠١٦/٣/١٥
11	عبد صباغ نسيه	٠٧٧٤٤٥٦٧٠٧	قلمون ٢٠١٦/٣/١٥
12	الأم أحمد القندور	٠٧٧٤٤٥٦٧٠٧	قلمون ٢٠١٦/٣/١٥
13	أعلام إبراهيم الشريف	٠٧٧٤٤٥٦٧٠٧	قلمون ٢٠١٦/٣/١٥
14	احمد علي حمار قلمون	٠٧٧٤٤٥٦٧٠٧	قلمون ٢٠١٦/٣/١٥
15	عصية عنتان علي الحد	٠٧٧٤٤٥٦٧٠٧	قلمون ٢٠١٦/٣/١٥
16	امير المدم من الرطبة	٠٧٧٤٤٥٦٧٠٧	قلمون ٢٠١٦/٣/١٥
17	م. كرواه عياض	٠٧٧٤٤٥٦٧٠٧	قلمون ٢٠١٦/٣/١٥
18	م. محمد مارة	٠٧٧٤٤٥٦٧٠٧	قلمون ٢٠١٦/٣/١٥
19	محمد عينا عينا الزعارة	٠٧٧٤٤٥٦٧٠٧	قلمون ٢٠١٦/٣/١٥
20	محمد محمد شوب الرطبة	٠٧٧٤٤٥٦٧٠٧	قلمون ٢٠١٦/٣/١٥
21	ابراهيم محمد شوب الرطبة	٠٧٧٤٤٥٦٧٠٧	قلمون ٢٠١٦/٣/١٥
22	علي دار عينا رماض	٠٧٧٤٤٥٦٧٠٧	قلمون ٢٠١٦/٣/١٥
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Attendees Sheet for Syrians at Jarash



برنامج الأمم المتحدة للمستوطنات البشرية
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قائمة بأسماء المشاركين في الجلسة الحوارية: "إعادة استخدام المياه العادمة"، خلال الفترة من 10 - 12 أيلول (سبتمبر) 2019 في جرش و الرمثا و اربد والمفرق

مكان عقد الجلسة النقاشية: مركز الأثرية جادوم تاريخ عقد الجلسة النقاشية: ٢٠١٩ ١٩ ١٠

الرقم	الاسم	الوظيفة الحالة الاجتماعية	التوقيع	التاريخ	المبلغ عدد ا/
1	أصله أسعيل الام	متزوجة			0
2	رطب رضوان ابوسنوت	متزوجة			0
3	سرى خالد حمو	ارملة			5
4	الهام أحمد القندور	متزوجة			5
5	خبر صياح نفاة	متزوجة			5
6	منع محورا خندان الشريف	متزوجة			5
7	احمد ابراهيم الشريف	متزوجة			5
8	مخاضة صفيان حمو	ارملة			5
9	حنان نعيم الدرة	متزوجة			5
10	فهيبة احمد عبد الله	متزوجة			5
11	رقية نعيم الدرة الجاسم	متزوجة			5
12	صباح احمد العيسن	متزوجة			5

قائمة بأسماء المشاركين في الجلسة الحوارية: "إعادة استخدام المياه العادمة"، خلال الفترة من 10 - 12 أيلول (سبتمبر) 2019 في جرش و الرمثا وإربد والمفرق
مكان عقد الجلسة النقاشية: تاريخ عقد الجلسة النقاشية:

الرقم	الاسم	الوظيفة المالكة المستعمرة	التوقيع	التاريخ	عدد الحاضرين أخرى
٩	خديجة عواد ترموني	مترجمة			٥
١٤	خضر كيار رحل	مترجمة			٥
١٥	ارتناج موصل عويص	مترجمة			٥

(B)

Attendance sheet for Jordanians at Ramtha



الصندوق الاردني الهاشمي للتنمية البشرية جهد

كشف حضور جلسة حوارية

التاريخ: ٢٠١٩-٩-٢٠
المركز: مركز تنمية الشباب
ميسر الجلسة: د. طارق د. م. م. م. م.
الموقع: نارية مسير مسير

#	الاسم / ماله ام مساهم	رقم الهاتف	عدد المستفيدين في الجلسة التي	التوقيع
1	عبدالقناع الوردية / مساهم	٠٧٧٢٨١٣٧٠٢	واحد	[Signature]
2	احمد الوردية / مساهم	٠٧٧٢٤٩٨٦٩٥	أخوتي	[Signature]
3	عدي سليم عبي الزعبي	٠٧٧٨٩٧٨٤٩١	اولاده	[Signature]
4	محمد سليم عبي الزعبي	٠٧٨٦١٦٢١٢٦	اولاده	[Signature]
5	سليم عبي حنن الزعبي	١٧٧٨٤٠٨٦٦٣	اولاده	[Signature]
6	عماد سليم عبي الزعبي	١٧٧٨٧٦٣٦٤١	اولاده	[Signature]
7	الحمدة محمد غنيمه اله الزعبي	٠٧٨٥٧٩٠٦٥١	الاولاد	[Signature]
9	محمد محمد العوي	١٧٩٦٤٠٥٦١٤	الاولاد	[Signature]
10	ياسر احمد الدياب	٠٧٩٦٤٠٦٧٨٤	أنا واولاده	[Signature]



الرقم	الاسم فالد اسماء	الهاتف	الجنس / عدد المستفيدين	الجنسية
9	فاد من احمد الكركي	٠٧٩٦٦١٩٤١٦	ارلام	اردني
10	محمد كرم فضل الكركي / وكيل حمزة	٠٧٨٧٤٥٥٥٠	٦	سوري
11	محمد كرم العنبر	٠٧٨٥٨٥٣٧٩	٤	سوري
12	نور عبد القرم	٠٧٩٧٤٥٦٨٨٩	انثى / ٧	سوري
13				
14				
15				

Attendance sheet for Syrians at Ramtha

UNO HABITAT
نحو مستقبل حضري أفضل

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قائمة بأسماء المشاركين في الجلسة الحوارية: "إعادة استخدام المياه العامة"، خلال الفترة من 10 - 12 أيلول (سبتمبر) 2019 في جرش و الرمثا وإربد والمفرق

مكان عقد الجلسة النقاشية: مركز جامعة البتراء - الرمثا... تاريخ عقد الجلسة النقاشية: 10-11-12 أيلول 2019... الجلسات: جرش و الرمثا وإربد والمفرق

الرقم	الاسم	الوظيفة	التوقيع	عدد ساعات المشاركة	البلد
١	ها ابو زريق	متزوجة		٥	سوري
٢	متصل عواد حوارة	متزوجة		٥	سوري
٣	نعام احمد المصري	متزوجة		٥	سوري
٤	محمد اديب جابر الراعي	متزوج		٥	سوري
٥	سجن علي الزبيدي	متزوجة		٥	سوري
٦	محمد احمد الراعي	متزوج		٥	سوري
٧	موظف احمد المصري	متزوجة		٥	سوري
٨	ياسمين جابر الراعي	متزوجة		٥	سوري
٩	علاء محمد الراعي	متزوج		٥	سوري
١٠	خير محمد الراعي	متزوجة		٥	سوري
١١	احمد جابر الراعي	متزوج		٥	سوري
١٢	جابر دويج	متزوجة		٥	سوري

(C)

Attendance sheet for Syrian Refugees at Mafraq

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نحو مستقبل حضري أفضل

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قائمة بأسماء المشاركين في الجلسة الحوارية: "إعادة استخدام المياه العادمة"، خلال الفترة من 10 - 12 أيلول (سبتمبر) 2019 في جرش و الرمثا وإربد والمفرق

مكان عقد الجلسة النقاشية: جرش تاريخ عقد الجلسة النقاشية: 2019/9/10

الرقم	الاسم	الوظيفة	التوقيع	التاريخ	المبلغ
1	رائد الراعي	سوري		16 افراد	50 دينار
2	ياسين عيسى	سوري		16 افراد	50 دينار
3	زعل مكيون	سوري		16 افراد	50 دينار
4	فارس قنبله هادي	سوري		17 افراد	50 دينار
5	ابراهيم احمد عبد الهادي	سوري		14 افراد	50 دينار
6	محمد قاسم	سوري		15 افراد	50 دينار
7	فارس مرزوق	سوري		15 افراد	50 دينار
8	كايد الصلح	سوري		15 افراد	50 دينار
9	محمد تامر	سوري		15 افراد	50 دينار
10	موفق طيب	سوري		14 افراد	50 دينار
11	دله أحمد	سوري		13 افراد	50 دينار
12	اربع محمد	سوري		14 افراد	50 دينار

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قائمة بأسماء المشاركين في الجلسة الحوارية: "إعادة استخدام المياه العادمة"، خلال الفترة من 10 - 12 أيلول (سبتمبر) 2019 في جرش و الرمثا وإربد والمفرق

مكان عقد الجلسة النقاشية: تاريخ عقد الجلسة النقاشية:

الرقم	الاسم	الوظيفة	التوقيع	التاريخ	المبلغ
13	كفيا البيودي	سوري		15 افراد	50 دينار
14	عصم دحيم	سوري		15 افراد	50 دينار
15	رائد احمد ابو عمار	سوري		15 افراد	50 دينار
16	عصية الزعبي	سوري		14 افراد	50 دينار
17	رجدة البري	سوري		15 افراد	50 دينار
18	نخلة الموحات	سوري		14 افراد	50 دينار
19	عليه ابو عمار	سوري		11 افراد	50 دينار
20	محمد سراج	سوري		18 افراد	50 دينار
21					

(D)

Attendants at Al Quds Mosque in Irbid

UN HABITAT
نحو مستقبل حضري أفضل

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قائمة بأسماء الحاضرين في الجلسة الحوارية: 'إعادة استخدام المياه العادمة'، خلال الفترة من 10 - 14 أيلول (سبتمبر) 2019 في جرش و الرمثا وإربد والمفرق

مكان عقد الجلسة النقاشية: مركز الجزيرة للدراسات تاريخ عقد الجلسة النقاشية: 18/9/2019

الرقم	الاسم	الوظيفة	التوقيع	عدد أفراد العائلة	المبلغ المستلم
١	مسيرة عادل حماد	سورية		٢	٥
٢	عفاف محمد الزعبي	سورية		٥	٥
٣	سليمان محمد الصبح	سورية		٢	٥
٤	رعدة عامر محمد	سورية		٥	٥
٥	راما عامر محمد	سورية		٥	٥
٦	سيدة احمد ابو قبايصة	سورية		١	٥
٧	عدوى الحاج عكا	سورية		١	٥
٨	نصيفة اسماعيل المريوي	سورية		١	٥
٩	اسرارها الصبيح	سورية		١	٥
١٠	صباح قاسم	سورية		١	٥
١١	مروة قاسم	سورية		١	٥
١٢	ريجة خليل كناكزي	سورية		١	٥

Attendants at Al Quds Mosque in Ramtha

UN HABITAT
نحو مستقبل حضري أفضل

برنامج الأمم المتحدة للمستوطنات البشرية
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قائمة بأسماء المهتمين المشاركين في الجلسة الحوارية: "إعادة استخدام المياه العادمة"، خلال الفترة من 10 - 19 أيلول (سبتمبر) 2019 في جرش و الرمثا وإربد والمفرق

مكان عقد الجلسة النقاشية: مركز البثيرة بدمشق - تاريخ عقد الجلسة النقاشية: 18.9.2019. الدرجة

الرقم	الاسم	الجنسية	التوقيع	حذاء نساء العائلة	اطلغ المستلم
13	مرهم محمد المصري	سورية		✓	○
14	رماء ابراهيم عبيد	سورية		○	○
15	آيات مسينة مطفاق	سورية		ع	○
16	سرين انور خريبة	سورية		○	○
17	دلال صالح العاسمي	سورية		ع	○
18	حنان الحوي	سورية		ع	○
19	ياسمين رزق العاسمي	سورية		○	○
20	صباح محمد الزبيدي	سورية		✓	○

شعار

UN HABITAT

نحو مستقبل حضري أفضل

برنامج الأمم المتحدة للمستوطنات البشرية
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قائمة بأسماء المشاركين في الجلسة الحوارية: "إعادة استخدام المياه العادمة" خلال الفترة من 10 - 12 أيلول (سبتمبر) 2019 في جرش و الرمثا وإربد والمفرق

مكان عقد الجلسة النقاشية: جرش... التوقيت: 10:00... 12:00... التاريخ: 10/9/2019

أعداد المشاركين

الرقم	الاسم	الوظيفة	التوقيع	عدد المحاضرات
1	بلقيس سالم عبدالقناع قنقو	طالبة		1
2	هياة عرفات موسى محمدان	ربة منزل		1
3	هيام غازي علي الموراني	ربة منزل		0
4	حناء موسى المناسير	ربة منزل		1
5	هاوية خالد طلوع	ربة منزل		7
6	مريم مصطفى محمد الغوانجه	ربة منزل		11
7	نزيره عبد الادي الحانوي	ربة منزل		7
8	ساميه حاكم محمد البينا	ربة منزل		7
9	مريم أحمد صبيح	ربة منزل		7
10				
11				
12				

أحياء

قائمة بأسماء المشاركين في الجلسة الحوارية: "إعادة استخدام المياه العادمة"، خلال الفترة من 10 - 12 أيلول (سبتمبر) 2019 في جرش و الزمنا وإريد والمفرق

مكان عقد الجلسة النقاشية: جامع القديس... البرجت... تاريخ عقد الجلسة النقاشية: 11-9-2019 الأربعاء

الرقم	الاسم	الوظيفة / كينونة	التوقيع	التاريخ
1	فهد حياين محمد الجولان	اردن		2019/9/11
2	محمد البراهيم محمد القزاز	الاردن		2019/9/11
3	محمد ذياب	الاردن		2019/9/11
4	موفقة كعبر محمد	مبتعثات		2019/9/11
5	محمد صبا	معلم / أستاذة		2019/9/11
6	يوسف ساريمانس النواره	معلم بناء		2019/9/11
7	مراد عبدالله ضيف الله ابو عاقول	متقاعد		2019/9/11
8	البراهيم سالم القزاز	معلم		2019/9/11
9	عاشم ذياب القاضى القاضى	متقاعد		2019/9/11
10	محمد ذياب عاصم القاضى	متقاعد		2019/9/11
11	علاء حسين صالح الحمرا	معلم		2019/9/11

Syrian Refugees Attendants Sheet

UN HABITAT
نحو مستقبل حضري أفضل

برنامج الأمم المتحدة للمستوطنات البشرية
63 شارع تيسير لطاعة - عدون الجنوبي، عمان، الأردن
هاتف: +962-6-5924889 فاكس: +962-6-5931448

قائمة بأسماء الحاضرين في الجلسة الحوارية: "إعادة استخدام المياه العادمة" خلال الفترة من 10 - 19 أيلول (سبتمبر) 2019 في جرش و الزمنا و اردن والمغربي

مكان عقد الجلسة النقاشية: مركز الجزيرة بعمان
تاريخ عقد الجلسة النقاشية: 15/9/19

الرقم	الاسم	الجنسية	التوقيع	عدد أفراد العائلة	المبلغ المستلم
1	سميرة عدل حماد	سورية		2	0
2	عماد محمد الزعبي	سورية		0	0
3	سماح محمد الفرج	سورية		4	0
4	رعدة ناصر محمد	سورية		0	0
5	راما عام محمد	سورية		0	0
6	سيرة احمد ابو قياص	سورية		1	0
7	فردى الحاج عواد	سورية		1	0
8	بصمة اسماعيل الميروي	سورية		1	0
9	امبارها الصلح	سورية		1	0
10	سماح قاسم	سورية		1	0
11	مروى قاسم	سورية		2	0
12	ربيعه خليل تشاركي	سورية		1	0

Attendants Sheet at JUST University in Irbid

UN HABITAT
نحو مستقبل حضري أفضل

برنامج الأمم المتحدة للمستوطنات البشرية
63 شارع تمير لطاعة - عتود الجنوبي، عمان، الأردن
هاتف: +962-6-5924889 فاكس: +962-6-5931448

قائمة بأسماء المشاركين في الجلسة الحوارية: "إعادة استخدام المياه العادمة"، خلال الفترة من 10 - 11 أيلول (سبتمبر) 2019 في جرش و الرمثا وإربد والمفرق
مكان عقد الجلسة النقاشية: JUST تاريخ عقد الجلسة النقاشية: 18-9-2019

الرقم	الاسم	الوظيفة	التوقيع	التاريخ
1	د. بشير نصيرات	قسم الإنتاج الحيواني / استاذ مساعد		18-9-2019
2	د. ابراهيم بن عمار	قسم الإنتاج الحيواني / استاذ مشارك		18-9-2019
3	د. سهام القحطين	قسم الإنتاج الحيواني / استاذ مشارك		18-9-2019
4	د. بركة عبيدات	استاذ		18-9-2019
5	م. قيس محمد أحمد عبدالله	قسم الإنتاج الحيواني / طالب ماجستير		18-9-2019
6	ركان أحمد الميران	قسم الزراعة والبيئة		18-9-2019
7	عبدالله المصلحي	مساعد مدير / قسم الزراعة والبيئة		18-9-2019
8	ابراهيم بن عمار	طالب ماجستير / قسم المياه والبيئة		18-9-2019
9	د. عمار علي البلامه	رئيس قسم المياه والبيئة والبيئة		18/9/2019
10	د. زكريا إبراهيم العولقي	رئيس قسم الإنتاج الحيواني		18/9/2019
11	د. محمد الفريسي	الإنتاج الحيواني / ماستر في الزراعة		18/9/2019
12	د. حاتم تادرسا	الموارد المائية / ماستر في الزراعة		18/9/2019

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نحو مستقبل حضري أفضل

برنامج الأمم المتحدة للمستوطنات البشرية
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قائمة بأسماء المشاركين في الجلسة الحوارية: "إعادة استخدام المياه العادمة"، خلال الفترة من 10 - 12 أيلول (سبتمبر) 2019 في جرش و الرمثا وإربد والمفرق
مكان عقد الجلسة النقاشية: تاريخ عقد الجلسة النقاشية:

الرقم	الاسم	الوظيفة	التوقيع	التاريخ
13	مروة عزام حسين زهر اللطيف	طالبة		2019/9/18
14	محمد ابراهيم يوسف شحاته	مهندس م / قسم الموارد المائية		2019/9/18
15	د. خالد زهدي محمد محمود	قسم الإنتاج الحيواني / عميد كلية الزراعة		2019/9/18
16				

