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**In Coordination With:
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**Water and Sanitation, Hygiene (WaSH)
Monitoring Project:
Impact of the Current Crisis in the West Bank and Gaza Strip
Survey Report # 19
1 – 15 December / 2004**

For more information, please call:
Eng. Basema Bashir/ PHG
Tel. 02/6565887 or 02/6565890
E-mail: bashir@phg.org
Website: <http://www.phg.org/campaign>

Introduction

The **first section** of this report presents a summary of urgent needs in some of the Palestinian communities in the West Bank and Gaza Strip.

The **second section** includes summary of results of the information and update for communities surveyed during the previous two weeks. The section includes five major tables with brief comments on the data presented in these tables.

Section one: Urgent needs in Palestinian communities

Khan Younis and Rafah

Preliminary results of incursion in Khan Younis and Rafah during the period of 12 to 17 of December 2004 could be summarized as follows:

- Division of the Gaza Strip in to three parts through the well known Abu Holy checkpoint in addition to closing the coastal road.
- Destruction of rainwater harvesting ponds and agricultural well near Morag settlement. This includes 8 green houses and 24 dunums that was damaged and owned by Al Masri and Hijazi Families.
 - The well that supplies water to Al Fukhkhari and Al Bayuk communities is sill closed since September 23rd 2004. During this incursion four wells located near Gosh Katif settlement compound were maintained with difficulties by the maintenance team in order to supply the needed water for Kan Younis and Eastern communities that include Abasan and Bani Suhila municipalities. The maintenance team were risking there lives since the Israeli forces were prohibiting any one from reaching the area.
- Destruction of more than 12 houses in Khan Younis refugee camp and shelling of Nemsawi buildings near Gosh Qatif settlements that caused new homeless families which need emergency respond for shelters, water and sanitation services.

Closure of a domestic well that supplies water to Al Bayuk and Al Fukhkhary communities / Gaza Strip

The Israeli forces have closed and prohibited access to Al Naser (Al Bayuk and Al Fukhkhari) municipal well since 23-9-2004; the well provides both Al Bayuk and Al Fukhkhari councils with the needed water for the communities and by closing it, the communities are forced to buy water from the nearby private agricultural wells. The communities are forced to limit the quantity used to the minimum and therefore, affecting directly the WaSH situation in these two communities. Total population of these two communities is about 13,000 capita.

The Well is very close to Morag settlement and used to pump about 70 cubic meters per hour and for at least 12 hour daily. The municipality maintenance team and after arranging with the Israelis tried to reach the well to maintain it to provide the needed water for the communities, but the Israeli forces forced them to go back after firing on them.

On the other hand, Al Qarara municipality faces difficulties in operating the two wells that supply the community with water since they are very close to Gush Katif settlements.

Damage of main reservoir in Wadi al Far'a/ Tubas governorate and roof tanks in Talluza / Nablus

On November 14th 2004, the Israeli Forces shot on the main spring reservoir in Wadi al Far'a in Tubas Governorate and caused damage of the reservoir in addition to damaging the electrical engine. On the other hand, seven roof tanks were damaged in Talluza / Nablus Governorate after Israeli forces shot on them.

Deir al Ghusun / Tulkarem Governorate

Deir al Ghusun is a community with about 9000 capita. Since 1985 when the groundwater well owned by the municipality started to work and until now, the Turbin and the Pump were not functioning well for more than 8 times, causing a financial problem to the council in addition to suffering of the whole community in getting the needed water. The last time the well was not functioning was during September 2004 when the community had to wait for several months to import the needed submersible pump from out side the West Bank since this pump is not available here.

The head of Deir al Ghusun municipality is looking for support to buy a standby pump so as to minimize suffering of people when the current pump is not functioning or needs maintenance.

For further details and information, please contact Jamil Abu Ali / Head of Deir al Ghusun municipality.

Section two: Summary of information and update for the surveyed communities during 1 -15 December 2004.

The WaSH MP has been updating the data collected during the past two years. The new survey focuses upon rapidly or significantly changed or changing data and collects and analyzes Mekorot Company supply during year 2003 and 2004

34 communities of the WB and GS have been surveyed during the past two weeks. A new questionnaire has been prepared to illustrate significant changes and elements of interest to key stakeholders.

Collected data is presented in the following tables at the end of this section.

General comments:

Table 1: Water Supply by Tankers for Communities Surveyed during 1-15 December / 2004.

Comparisons of prices of tankers water before and during the current Intifada are presented. Most of the communities suffered from the noticeable increase in the price of water, reflecting the effect of closures and curfews on water transport. On the other hand, in some communities where tanker water is brought from unlicensed wells, per cubic water price decreased (Siris / Jenin governorate). Water quality of these sources is not monitored and therefore, it is possible that these sources could affect population health negatively.

Effect of checkpoints, fixed and mobile, earth mounds and curfew is estimated in this table, 2 indicates a “severe” effect on water transport and the location is completely blocked, 1 indicates an “intermediate” effect i.e. delays between 1 and 6 hours, and 0 indicates no effect on the water transport.

A comparison of supplied quantities now and before the Intifada is also presented.

- In general, it is noticed that prices in Hebron and Bethlehem Governorates are higher than prices in other governorates. In the Gaza Strip, tanker water is usually used on emergency situations and it costs about 35 NIS per cubic meter.
- The effects of fixed and mobile checkpoints, earth mounds and curfews on water transport are presented in the table, with the numbers indicating the extent of closures as above.
- Supplies of tanker water before and after Intifada are also presented in the same table. Communities that do not have defined quantities in the table do not rely on tankers as a source of water supply for the community.

Table 2: Water supply by Mekorot Company for communities surveyed during 1-15 December / 2004.

In Table 2, total water quantities supplied to the communities are collected, and more specifically, quantities supplied by Mekorot Company now and before the Intifada are collected from local councils of these communities. In this table, “water supplies from all sources” include all water supplied from all sources in that community including supply from Mekorot Company. 22 out of the 34 surveyed communities get all or a considerable part of their supplied quantities from Mekorot Company as a main source of domestic water.

Supplies are reduced in 20 of the communities that get water from Mekorot Company, and 2 communities are not affected by reduction.

Table 3: Effect of checkpoints, earth mounds, and curfews on access to services in the Wet Bank and Gaza Strip.

In this table, summary of effects of fixed and/or mobile checkpoints, earth mounds, and curfews on access to services including access of water tankers, access of maintenance teams, and access to Public Health Centers (PHC) are presented. Most of the surveyed communities are affected by more than one of these effects, but those affected with fixed check points are those which are suffering the most (Qusra and Talfit / Nablus, Jit, Hajja, 'Izbat at Tabib, Jinsafut / Qalqiliya, Al Jiftlik/ Jericho, Dhahrat an Nada and Za'tara /Bethlehem, and Al Fukkhari / Khan Younis).

Table 4: Damages in water infrastructure during the past two weeks.

This table summarizes damages in water infrastructure in the surveyed communities during the past two weeks. Jit in Qalqiliya Governorate was affected directly by the damage in its waternetwork which affected supply of water to 20% of the population. Roof tanks remain a major target for Israeli soldiers in many Palestinian Governorates especially in the Nablus, Qalqiliya and Khan Younis Governorates. Details are available in the table below.

Table 5: Water supply for the surveyed communities and its major problems.

Table 5 summarizes major problems in selected surveyed communities.

Table 1: Water Supply by Tankers for Communities Surveyed during 1-15 December / 2004.

No.	Comm. ID	Community Name	District	Date	Tanker W. price (NIS / m ³)		Check Points (CP) effect on tankers					W.Tankers Supply (m3/month)		
					During Intifada	Before Intifada	Fixed CP	Fixed CP name	Mobile CP	Earth mounds effect	Curfew effect	Current	Regular	
1	10600	Siris	Jenin	09/12/2004	6.0	12.0							1000	1000
2	151365	Qusra	Nablus	15/12/2004	13.0	13.0			1			1	4000	4000
3	151375	Talfit	Nablus	15/12/2004	10.0	10.0			1			1	2000	2000
4	200970	Hajja	Qalqiliya	15/12/2004	13.0	15.0	1	Qalqiliya (Wall Gate)	1			1	2000	2000
5	201075	'Izbat at Tabib	Qalqiliya	15/12/2004	10.0	10.0			1	2		1	100	100
6	301605	Qibya	Ramallah	07/12/2004	18.0	12.0			1				800	800
7	351140	Al Jiftlik	Jericho	04/12/2004	12.0	8.0	2	Jericho	2				1000	800
8	402025	Beit Iksa	Jerusalem	06/12/2004	8.0	6.0							300	300
9	452250	Umm al Qasseis	Betlehem	27/11/2004	15.0	10.0			1	1			100	50
10	452300	Artas	Betlehem	14/12/2004	15.0	10.0							200	100
11	452305	Dhahrat an Nada	Betlehem	04/12/2004	15.0	8.0	1	Za'tara	1				100	50
12	452330	Al Khushna	Betlehem	28/11/2004	15.0	10.0			1	1			30	20
13	452335	Beit Ta'mir	Betlehem	04/12/2004	15.0	10.0			1	1			300	200
14	452360	Za'tara	Betlehem	05/12/2004	15.0	10.0	1	Za'tara	1	1			600	300
15	452365	Al 'Asakira	Betlehem	29/11/2004	15.0	10.0				1			200	100
16	452500	Marah Rabah	Betlehem	05/12/2004	20.0	10.0			1	2			300	100
17	502625	Khirbet Jamrura	Hebron	06/12/2004	10.0	6.0				1			20	25
18	502635	Ash Shuyukh	Hebron	06/12/2004	15.0	10.0			1	1			1000	500

No.	Comm. ID	Community Name	District	Date	Tanker W. price (NIS / m ³)		Check Points (CP) effect on tankers					W.Tankers Supply (m3/month)		
					During Intifada	Before Intifada	Fixed CP	Fixed CP name	Mobile CP	Earth mounds effect	Curfew effect	Current	Regular	
19	502795	Al Muwarraq	Hebron	07/12/2004	15.0	10.0					1		120	50
20	502805	Kureise	Hebron	08/12/2004	17.0	10.0					1		500	300
21	502840	Dura	Hebron	30/11/2004	20.0	10.0			1		1		3000	1000
22	502860	As Sikka	Hebron	01/12/2004	20.0	10.0			1		2		200	100
23	502880	Birin	Hebron	24/11/2004	20.0	10.0					2		50	50
24	502900	Turrama	Hebron	09/12/2004	10.0	10.0					1		100	50
25	502920	Hadab al Fawwar	Hebron	02/12/2004	10.0	5.0							300	100
26	502975	Khallet al 'Aqed	Hebron	25/11/2004	15.0	10.0			1		1		150	200
27	703450	Qizan an Najjar	Khan Yunis	09/12/2004	35.0	35.0								
28	703475	Umm Kameil	Khan Yunis	09/12/2004	35.0	35.0								
29	703485	Al Fukkhari	Khan Yunis	09/12/2004	35.0	35.0								

Table 2: Water supply by Mekorot Company for communities surveyed during 1 – 15 December /2004.

No.	Community ID	Community Name	District	Date	Water supply (m3/month)		
					From all sources	Mekorot Supply (current)	Mekorot Supply (regular)
1	10600	Siris	Jenin	09/12/2004	11250		
2	151365	Qusra	Nablus	15/12/2004	9000		
3	151375	Talfit	Nablus	15/12/2004	5500		
4	200945	Jit	Qalqiliya	15/12/2004	4000	3500	3500
5	200970	Hajja	Qalqiliya	15/12/2004	4000		
6	201075	Izbat at Tabib	Qalqiliya	15/12/2004	500		
7	201085	Jinsafut	Qalqiliya	15/12/2004	5000	4000	4000
8	301605	Qibya	Ramallah	07/12/2004	9000	7000	8000
9	301615	Yabrud	Ramallah	07/12/2004	1600		
10	301710	Deir Qaddis	Ramallah	12/12/2004	2800	2500	2700
11	351110	Az Zubeidat	Jericho	12/12/2004		2500	5000
12	351140	Al Jiftlik	Jericho	04/12/2004	5000	3900	4000
13	402025	Beit Ikka	Jerusalem	06/12/2004	3000	2500	2800
14	452250	Umm al Qasseis	Betlehem	27/11/2004	400	300	400
15	452300	Artas	Betlehem	14/12/2004	4500	4000	5000
16	452305	Dhahrat an Nada	Betlehem	04/12/2004	450	300	400
17	452330	Al Khushna	Betlehem	28/11/2004	80	50	80
18	452335	Beit Ta'mir	Betlehem	04/12/2004	1500	1000	1500
19	452360	Za'tara	Betlehem	05/12/2004	6000	5000	6000
20	452365	Al 'Asakira	Betlehem	29/11/2004	1200	800	1000
21	452500	Marah Rabah	Betlehem	05/12/2004	1500	1000	1500
22	502625	Khirbet Jamrura	Hebron	06/12/2004	20		
23	502635	Ash Shuyukh	Hebron	06/12/2004	8000	6000	9000
24	502795	Al Muwarraq	Hebron	07/12/2004	600	400	700
25	502805	Kureise	Hebron	08/12/2004	2000	1000	2000
26	502840	Dura	Hebron	30/11/2004	20000	15000	25000
27	502860	As Sikka	Hebron	01/12/2004	1000	600	1000
28	502880	Birin	Hebron	24/11/2004	120		
29	502900	Turrama	Hebron	09/12/2004	550	300	500
30	502920	Hadab al Fawwar	Hebron	02/12/2004	2000	1500	2500
31	502975	Khallet al 'Aqed	Hebron	25/11/2004	200		
32	703450	Qizan an Najjar	Khan Yunis	09/12/2004	30000		
33	703475	Umm Kameil	Khan Yunis	09/12/2004	15000		
34	703485	Al Fukkhari	Khan Yunis	09/12/2004	15000		

Table 3: Effect of checkpoints, earth mounds, and curfews on access to services in the surveyed communities (1 – 15 December 2004).

No.	Comm. ID	Community Name	District	Date	Fixed check point effect on					Mobile check point effect on			Earth mounds effect on			Curfew effect on			
					Tankers	Ch. Point name	Maintenance teams	Ch. Point name	PHC access	Ch. Point name	Tankers	Maintenance teams	PHC access	Tankers	Maintenance teams	PHC access	Tankers	Maintenance teams	PHC access
1	151365	Qusra	Nablus	15/12/2004			1	Howwara and Za'tara	1	Howwara and Za'tara	1	1	1				1	1	1
2	151375	Talfit	Nablus	15/12/2004			1	Howwara and Za'tara	1	Howwara and Za'tara	1	1	1				1	1	1
3	200945	Jit	Qalqiliya	15/12/2004			1	Beit Iba	1	Beit Iba		1	1					1	1
4	200970	Hajja	Qalqiliya	15/12/2004	1	Qalqiliya (Wall Gate)	1	Qalqiliya (Wall Gate)	1	Qalqiliya (Wall Gate)	1	1	1				1	1	1
5	201075	'Izbat at Tabib	Qalqiliya	15/12/2004			1	Qalqiliya	1	Qalqiliya	1	1	1	2	2	2	1	1	1
6	201085	Jinsafut	Qalqiliya	15/12/2004			1	Qalqiliya	1	Qalqiliya		1	1					1	1
7	301605	Qibya	Ramallah	07/12/2004							1								
8	301710	Deir Qaddis	Ramallah	12/12/2004					2	Ne'lin			1						
9	351110	Az Zubeidat	Jericho	12/12/2004									2						2
10	351140	Al Jiftlik	Jericho	04/12/2004	2	Jericho	1	Jericho	1	Jericho	2								
11	452250	Umm al Qasseis	Betlehem	27/11/2004							1	1	1	1	1	1			
12	452305	Dhahrat an Nada	Betlehem	04/12/2004	1	Za'tara	1	Za'tara	1	Za'tara	1	1	1						
13	452330	Al Khushna	Betlehem	28/11/2004							1	1	1	1	1	1			
14	452335	Beit Ta'mir	Betlehem	04/12/2004							1	1	1	1	1	1			
15	452360	Za'tara	Betlehem	05/12/2004	1	Za'tara			1	Za'tara	1	1	1	1	1	1			
16	452365	Al 'Asakira	Betlehem	29/11/2004										1	1	1			

No.	Comm. ID	Community Name	District	Date	Fixed check point effect on					Mobile check point effect on			Earth mounds effect on			Curfew effect on			
					Tankers	Ch. Point name	Maintenance teams	Ch. Point name	PHC access	Ch. Point name	Tankers	Maintenance teams	PHC access	Tankers	Maintenance teams	PHC access	Tankers	Maintenance teams	PHC access
17	452500	Marah Rabah	Betlehem	05/12/2004							1	1		2	2	2			
18	502625	Khirbet Jamrura	Hebron	06/12/2004										1		1			
19	502635	Ash Shuyukh	Hebron	06/12/2004							1	1	1	1	1	1			
20	502795	Al Muwarraq	Hebron	07/12/2004										1	1	1			
21	502805	Kureise	Hebron	08/12/2004										1	1	1			
22	502840	Dura	Hebron	30/11/2004							1	1	1	1	1				
23	502860	As Sikka	Hebron	01/12/2004							1	1	1	2	2	2			
24	502880	Birin	Hebron	24/11/2004										2		2			
25	502900	Turrama	Hebron	09/12/2004										1	1	1			
26	502975	Khallet al 'Aqed	Hebron	25/11/2004							1		1	1		1			
27	703485	Al Fukkhari	Khan Yunis	09/12/2004			2	Morag settlement				2			2			2	

Table 4: Damages in water infrastructure during 1 – 15 December 2004.

No.	Comm. ID	Community Name	District	Date	Wells		Springs		Tankers		Roof Tanks	Cisterns	Water Network Destruction		
					Comp.	Part.	Comp.	Part.	Comp.	Part.			Main Lines	Secondary Lines	% of affected population
1	151365	Qusra	Nablus	15/12/2004							5		No	No	
2	151375	Talfit	Nablus	15/12/2004							20		No	No	
3	200945	Jit	Qalqiliya	15/12/2004									No	Yes	20
4	201075	'Izbat at Tabib	Qalqiliya	15/12/2004							5	2	No	No	
5	703450	Qizan an Najjar	Khan Yunis	09/12/2004							10		No	No	
6	703485	Al Fukkhari	Khan Yunis	09/12/2004							5		No	No	

Table 5: Water supply for selected surveyed communities and its major problems.

No.	Comm. ID	Community Name	District	Date	Supply from all sources (m ³ / month)	General Comments for the community
1	10600	Siris	Jenin	09/12/2004	11250	The main sources of water are tankers and cisterns. The new unlicensed ground water wells caused reduction in the price of water transported through tankers.
2	151365	Qusra	Nablus	15/12/2004	9000	Main sources of water for the community are: Mekorot Company through the nearby Migdalim settlement (4000 m ³ / month), Qusra springs (1000 m ³ / month), and the available cisterns in the community (4000 m ³ / month). Water supplied by Mekorot is chlorinated through the water network and cisterns are chlorinated through the local council in coordination with Ministry of Health (MoH).
3	151375	Talfit	Nablus	15/12/2004	5500	No water network in the community. Water is transported through tankers (2000 m ³ / month), springs (1500 m ³ / month) and cisterns (2000 m ³ / month). Water transported through tankers is chlorinated by Mekorot Company, and cisterns are chlorinated in coordination with local councils).
4	200945	Jit	Qalqiliya	15/12/2004	4000	Supplied water is also used for agricultural purposes. It is chlorinated by Mekorot Company.
5	200970	Hajja	Qalqiliya	15/12/2004	4000	Water supply is through tankers from agricultural ground water well (Abu Maryam well / Al Nabi Elyas), total supplied quantity is 2000 m ³ / month and with a price of 13 NIS / m ³ . Price of water through the local council tanker is 10 NIS / m ³ . Chlorination of water is through the local council in coordination with the Ministry of Health (MoH) for the cisterns and tankers.
6	201075	'Izbat at Tabib	Qalqiliya	15/12/2004	500	Main source of water is from 'Azzoun well in addition to tankers and cisterns. Chlorination is through the local council.
7	201085	Jinsafut	Qalqiliya	15/12/2004	5000	Chlorination is through Mekorot Company.
9	301615	Yabrud	Ramallah	07/12/2004	1600	Water is supplied to the community through the Jerusalem Water Undertaking (JWU) with an average of 1400 m ³ per month.

No.	Comm. ID	Community Name	District	Date	Supply from all sources (m ³ / month)	General Comments for the community
10	351110	Az Zubeidat	Jericho	12/12/2004		There are two water sources for the community: the first from Mekorot Company which supplies about 2500 m ³ per month, the second is a ground water well owned by the community which is used both for agriculture and domestic use. In winter they pump 400 m ³ per day for domestic use, whereas in summer time 800 m ³ per day are pumped for domestic use; it is worth mentioning that its water is salty.
11	351140	Al Jiftlik	Jericho	04/12/2004	5000	No records of the supplied quantities are available for 2004. Water supply by Mekorot Company is fixed since long time ago despite the increase in the population of the community and despite the fact that people rely on livestock for living and therefore, they need more water than the supplied quantity. The community relies on tankers water to provide the extra needed quantities of water for daily use.
12	502625	Khirbet Jamrura	Hebron	06/12/2004	20	The community buys the needed chlorine tablets for chlorination. The source of water is Bir Musallam
13	502860	As Sikka	Hebron	01/12/2004	1000	The community lost some of its land for the construction of the Apartheid Wall.
14	502880	Birin	Hebron	24/11/2004	120	This is a Bedouin community that lives between Bani Na'im and Yatta communities. They have an old well which is supplied by a natural spring and the well supplies 70% of the community need of water.
15	502920	Hadab al Fawwar	Hebron	02/12/2004	2000	The tanker water is relatively cheap since they get it from a water source in Al Fawwar Camp which is very close to the community.
16	502975	Khallet al 'Aqed	Hebron	25/11/2004	200	This community do not have water network and depends on cisterns and tankers for water supply.
17	703450	Qizan an Najjar	Khan Yunis	09/12/2004	30000	This community is located between Gush Katif and Morag settlements. Roof tanks of the households and residents of this community are continuously affected by shooting from settlers living in these settlements.
18	703475	Umm Kameil	Khan Yunis	09/12/2004	15000	This community is very close to Morag settlement and it suffers from continuous shooting by settlers on houses and roof tanks.

No.	Comm. ID	Community Name	District	Date	Supply from all sources (m ³ / month)	General Comments for the community
19	703485	Al Fukhkhari	Khan Yunis	09/12/2004	15000	The main source of water that supply water to the community and which is near Morag settlement was closed by Israeli forces since 23-09-2004.