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**In Coordination With:
Palestinian Water Authority (PWA)**

**Water and Sanitation, Hygiene (WaSH)
Monitoring Program**
Impact of the Current Crisis in the West Bank and Gaza Strip
Survey Report # 28
May, 2006

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Introduction

This is the third report prepared by the WaSH Monitoring Program during this phase. The first two reports distributed previously included information about 57 communities. The current report includes information about 35 communities that were surveyed during the past two weeks.

In this report, collected data and information, as was done in the previous reports, are presented in different tables where each table reflects at least one of the major problems affecting the WaSH situation in these communities. This report includes summary of the information for communities surveyed during the second half of April 2006; the total number of these communities is 35. The tables include summary of the collected data and major findings and comments on these tables are also provided.

Table 1: Surveyed Communities

This table includes communities that were surveyed during the past period. Its basic data is also presented in this table.

Table 2: Major WaSH situation indicators in the surveyed communities.

Data presented in this table was recently added to the used questionnaires. It includes major important indicators that reflect difficulties and major problems affecting these communities.

These indicators are as follows:

1. **Households with year-round access to improved water source (%) and Households with year-round access to unimproved water source (%):** Where **Improved water source** means Household connection, Public standpipe, Borehole, Protected dug well, protected spring, and **unimproved water sources** include: Unprotected well, unprotected spring, Vendor-provided water (Tanker truck water).
2. **Water supplied per capita per day (liter):** estimated quantity of water supplied per each person per day.
3. **Wastewater Network Coverage (%):** percentage of households connected to wastewater network.
4. **Connection to Cesspits or Septic Tank (%):** percentage of households connected to cesspits or septic tanks.
5. **Availability of Solid waste Collection System (%):** percentage of coverage of the wastewater collection system.
6. **Population Suffer from Water Born Diseases (%):** percentage of population affected by water related diseases.
7. **Water Supply Facilities Operated and Maintained by community (%):** percentage of the water supply facilities operated and maintained by the local council in the community.
8. **Cost Recovery for Water Supply Services (%):** percentage of financial coverage of the water supply services provided by the local council; this is reflected in collection of cost of water supply through payment of water bills by the households.
9. **Unaccounted for Water within Water Supply System (%):** percentage of quantity of water lost before reaching the consumer.
10. **Monthly Household Income Spent on Water Supply (%):** estimated percentage from the household income spent on water supply.
11. **Monthly Household Income Spent on Sanitation (%):** estimated percentage from the household income spent on sanitation services, including cost of wastewater vacuum tankers.
12. **Major Community Problems and Needs:** summarizes major current problems and needs of the community according to the local council.

Table 3: Relative change in tankers water price

This table presents the estimated price of one cubic meter transported through tankers in New Israeli Skekels (NIS), which is about US\$ 0.22. Price paid per cubic meter now (i.e. during the current crisis) and price paid before the current Intifada are presented; relative percentage of change in the price of one cubic meter is estimated in the table.

Table 4: Effects of fixed checkpoints on communities

In this table, name as well as weight of effect (where 2 is for high effect, i.e. complete block of the road; 1 is for intermediate effect, i.e. delays for several hours) of the fixed checkpoints are presented. Effects on tankers water supply, on maintenance team access, and on Public Health Centers (PHC) access are evaluated and presented in the table.

Table 5: Effects of mobile checkpoints, earth mounds, and curfew on communities.

Effects of mobile/ flying checkpoints, earth mounds, curfew, and the Wall on surveyed communities are presented, where and as was presented for the fixed checkpoints: 2 is for high effect, i.e. complete block of the road; 1 is for intermediate effect, i.e. delays for several hours.

Gaza Strip

The WaSH situation in the areas in the northern part of the Gaza Strip specifically, is directly affected and threatened because of the continuous targeting of this area by the Israeli Occupation Forces. Attacks of these areas are almost continuous, and therefore, wastewater pools and basins available in this area (Beit Lahia) are directly threatened. Direct attacks of these pools and basins means that about 3 million cubic meters of wastewater will be flowing and directly affecting nearby residential areas (including Al Manshia and Umm Al Naser areas); this is of course in addition to direct effect on the nearby thousands of dunums of agricultural land in addition to the potential effect on groundwater which is the only and major source of water in the Gaza Strip.

According to the Palestinian Water Authority, the Israeli attacks in the northern part of the Strip is also prohibiting maintenance teams from reaching the area to do needed work to prohibit possible environmental and humanitarian crisis.

Table 1: Surveyed Communities

No.	Community ID	Community Name	Governorate	Population 2006	Survey Date
1	151030	Furush Beit Dajan	Nablus	1253	23/4/2006
2	200905	Falamya	Qalqiliya	764	22/4/2006
3	200925	Kafr Qaddum	Qalqiliya	3776	25/4/2006
4	200945	Jit	Qalqiliya	2508	25/4/2006
5	200970	Hajja	Qalqiliya	2734	23/4/2006
6	201035	Al Funduq	Qalqiliya	712	13/3/2006
7	201040	Qalqiliya	Qalqiliya	48330	24/4/2006
8	201055	An Nabi Elyas	Qalqiliya	1313	25/4/2006
9	201065	Kafr Laqif	Qalqiliya	1063	25/4/2006
10	201075	'Izbat at Tabib	Qalqiliya	228	24/4/2006
11	201085	Jinsafut	Qalqiliya	2464	22/4/2006
12	201105	'Arab ar Ramadin al Janubi	Qalqiliya	210	23/4/2005
13	201130	Ras at Tira	Qalqiliya	429	16/4/2006
14	201155	Ras 'Atiya	Qalqiliya	1728	16/4/2006
15	201210	'Izbat Salman	Qalqiliya	695	16/4/2006
16	201225	'Izbat al Ashqar	Qalqiliya	452	16/4/2006
17	201280	'Azzun 'Atma	Qalqiliya	1806	16/4/2006
18	301485	'Abwein	Ramallah	3715	23/4/2006
19	301490	Turmus'ayya	Ramallah	4809	24/4/2006
20	301500	Sinjil	Ramallah	6011	23/4/2006
21	301595	Shuqba	Ramallah	4686	25/4/2006
22	301605	Qibya	Ramallah	5328	20/4/2006
23	301610	Silwad	Ramallah	7840	23/4/2006
24	301665	Budrus	Ramallah	1635	25/4/2006

No.	Community ID	Community Name	Governorate	Population 2006	Survey Date
25	301670	Abu Shukheidim	Ramallah	2011	29/4/2006
26	301680	Dura al Qar'	Ramallah	2961	23/4/2006
27	301695	Al Mazra'a al Qibliya	Ramallah	4589	29/4/2006
28	301710	Deir Qaddis	Ramallah	2127	22/4/2006
29	301785	Deir Dibwan	Ramallah	7489	24/4/2006
30	301805	Saffa	Ramallah	4369	27/4/2006
31	301820	Beit 'Ur at Tahta	Ramallah	4770	27/4/2006
32	301850	Beit Sira	Ramallah	3071	27/4/2006
33	301855	Kharbatha al Misbah	Ramallah	5670	27/4/2006
34	301895	Beit Liqya	Ramallah	8723	27/4/2006
35	351110	Az Zubeidat	Jericho	1449	23/4/2006

Table 2: Major WaSH situation indicators in the surveyed communities.

No.	Community ID	Community Name	Governorate	Households with year-round access to improved water source %	Households with year-round access to unimproved water source %	Water supplied per capita per day (liter)	Wastewater Network Coverage %	Connection to Cesspits or Septic Tank %	Availability of Solid waste Collection System %	Population Suffer from Water Born Diseases %	Water Supply Facilities Operated and Maintained by Council %	Cost Recovery for Water Supply Services %	Unaccounted for Water within Water Supply System %	Monthly Household Income Spent on Water Supply %	Monthly Household Income Spent on Sanitation %	Community Needs and Comments
1	151030	Furush Beit Dajan	Nablus	20	80	90	0	80	0	30				10	2	The main source of water for most of the community is through cisterns and tankered water; a small percentage of the community is getting water through Mekorot company.
2	200905	Falameya	Qalqiliya	100	0	80	0	100	100	5				11	4	The community was connected recently to a water network; about 140 households were connected to it and the main water source is an agricultural well. About 2100 m ³ /month are provided through the network with a price of about 3.5 NIS/m ³ .
3	200925	Kafr Qaddum	Qalqiliya	100	0	70	0	100	100	4	10	95	20	10	4	Main source of water is Mekorot company; about 400 m ³ / month is provided through tankers and 1700 m ³ /month is provided through cisterns. The available water network is old and is need of rehabilitation.
4	200945	Jit	Qalqiliya	100	0	80	0	100	100	3	100	100	30	8	5	Main source of water is through Mekorot

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																	company that supplies about 3600 m ³ /month; about 600 m ³ / month is provided through cisterns. The available water network is old and in bad need of rehabilitation.
5	200970	Hajja	Qalqiliya	20	80	40	20	80	100	4				10	3	The community has no water network. Main source of water is through tankers that transport water from a Mekorot filling point and other agricultural wells. About 2050 m ³ / month are provided through cisterns. Chlorine tablets are used for chlorination of water; it is provided by the village council that gets it from the Ministry of Health. The community is in bad need of a water network; on the short term they need construction of more cisterns.	
6	201035	Al Funduq	Qalqiliya	100	0	70	0	100	100	6	100	100	18	9	4	The main source of water for the community is Mekorot company; about 400 m ³ of used water is supplied through cisterns. Construction of the Wall is directly	

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																affecting the community; agricultural related structures are threatened to be demolished by the Israeli Occupation Forces
7	201040	Qalqiliya	Qalqiliya	100	0	80	100	0	100	3	100	100	25	8	3	The main source of water is through Qalqiliya municipality.
8	201055	An Nabi Elyas	Qalqiliya	100	0	70	0	100	0	3	100	100	30	9	4	The available water network is old and is need of rehabilitation.
9	201065	Kafr Laqif	Qalqiliya	100	0	70	0	100	100	2	100	95	25	10	3	The main entrance to the community is closed by earth mounds and vehicles are unable to get into or out of the community.
10	201075	'Izbat at Tabib	Qalqiliya	100	0	80	60	40	100	3	100	95	20	12	4	Main source of water supply in the community was through 'Azzon municipality until April 2005 when the community was connected to Mekorot company; about 50 m ³ / month is supplied through cisterns. The community is in need of a water distribution reservoir.
11	201085	Jinsafut	Qalqiliya	100	0	70	0	100	0	4	100	90	20	9	4	About 1000 m ³ /month is provided through cisterns. An agricultural pool is threatened to be demolished in the community by the

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																Israeli forces. The construction of the Wall is going to annex large proportion of the agricultural land in the community in addition to destruction of some structures including agricultural structures.
12	201105	'Arab ar Ramadin al Janubi	Qalqiliya	0	100	50	0	70	0	7	0	0		15	2	Main source of water is through tankers that transport water from agricultural wells. About 50 m ³ /month of water is provided through cisterns. Limited amount of chlorine tablets are provided to the community for chlorination of water because of the difficulty in reaching the community. The community is directly affected by the construction of the Wall since it is isolated behind it; permits are needed for getting in and out of the community.
13	201130	Ras at Tira	Qalqiliya	100	0	40	0	90	100	0	100	80	15	8	5	The community was connected to a water network two years ago and tankers are not used any more in the community. It is

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14	201155	Ras 'Atiya	Qalqiliya			80	0	100	100	0	100	75	20	5	5	<p>in need of a stand-by pump since it is located behind the WALL and any expected stop of the pump will have a direct effect on the community.</p> <p>There is also a need for a main line from the well to the pump to reduce the losses (1100 meters of 6 inches line).</p> <p>Domestic agriculture and livestock consumes a considerable percentage of water.</p> <p>Main source of water is a local groundwater well and the community was connected recently to a water network.</p> <p>There is a clear problem in the water quality since there is rust- like color in the water.</p> <p>Needs in the community include:</p> <p>The community needs to use electricity in pumping of water; there is a need for transformer.</p> <p>2. a new irrigation water network; the old one is under houses and roads (about</p>

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15	201210	'Izbat Salman	Qalqiliya	0	100	70	0	100	100	10	0			2	5	<p>2000 meters and 6 inches).</p> <p>3. There is a need for immediate solution for the water quality problem (rust- like color).</p> <p>Main source of water is a groundwater well. Households are connected through an agricultural network; the main problem is during winter season since the well is not functioning all the time. It is thought the water in the well was contaminated, but there was not enough chlorine in the chlorination unit and people shifted in using another well nearby the first one. No chlorination is being conducted now for domestic water. Water distribution is being managed by wells' owners and not the local council through the agricultural network.</p> <p>Needs include:</p> <ol style="list-style-type: none"> 1. Water network, and license is ready for this purpose. 2. Water distribution reservoir

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16	201225	'Izbat al Ashqar	Qalqiliya	0	100	70	0	100	100	0	100	80	15	8	8	<p>3. Connection of the well with electrical network sine the community is already connected.</p> <p>No public health center is available in the community; the closest one is in Habla / Kafr Thulth.</p> <p>Main source of water is agricultural wells where it supplies water to the main reservoir but with no chlorination or disinfection of the reservoir.</p> <p>The water network was developed in 2004 the available source is not enough for the community. Local cisterns are also a second source of water for the community.</p> <p>Major needs:</p> <ol style="list-style-type: none"> 1. Chlorination unit and disinfection of the reservoir. 2. Water meters and filters for households in addition to a water meter for the community.
17	201280	'Azzun 'Atma	Qalqiliya	0	100	85	0	100	100	0	90	95	25	5	5	The WALL gate closes at 10:00 pm and

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																	reopens at 4:00 am. Residents from 'Azzon 'Atma only are allowed to pass. PHG has been trying to pass to the other side of the WALL for several months now and did not succeed yet. People are not able to pay water bills during the current situation, but water is still provided to them from a ground water well owned by the council. Needs include: 1. Rehabilitation of water network. 2. Maintenance for the distribution reservoir. 3. Maintenance for the pump
18	301485	'Abwein	Ramallah	70	30	100	0	100	90	0	0	60	10	6	3	Main source of water is Ein Samya wells through the Jerusalem Water Undertaking (JWU). Needs: 1- Waste water network 2- Rehabilitation and expansion of water network	
19	301490	Turmus'ayya	Ramallah	100	0	80	0	100	100	0	0	100	30	5	2	Main source of water is Ein Samya wells	

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20	301500	Sinjil	Ramallah	70	30	55	0	100	90	0	0	70	30	8	3	<p>through Jerusalem Water Undertaking (JWU).</p> <p>Major needs in the community:</p> <ol style="list-style-type: none"> 1. Development of a wastewater network 2. Rehabilitation of the water network
21	301595	Shuqba	Ramallah	90	10	60	1	99	70	1	100	10	60	5	6	<p>Main source of water is through Shabteen well.</p> <p>Major needs:</p> <ol style="list-style-type: none"> 1. Extension of the Water network 2. Development of a wastewater network 3. Development of the Public Health Center (PHC).

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22	301605	Qibya	Ramallah	80	20	40	0	100	80	1	100	30	30	15	2	<p>4.Solid Waste Dumping site</p> <p>Percentage of losses in the water network was very high and actual use of water was very small. The community recently got a new water network, therefore. Losses are expected to decrease.</p> <p>Major needs: 1. Household cisterns 2. Support in domestic agricultural projects.</p>
23	301610	Silwad	Ramallah	50	50	70	10	90	100	0	0		25	15	5	<p>Ein Samya is the main source of water through the Jerusalem Water Undertaking (JWU).</p> <p>Major needs in the community: 1. Expansion of the water network 2. Expansion of the wastewater network 3. Cisterns 4. Rehabilitation of local springs</p>
24	301665	Budrus	Ramallah	95	5	50	0	100	80	1	100	20	15	2	1	<p>Major needs in the community: 1. Rehabilitation and extension of the water network</p>

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																2. Dumping site for solid waste 3. Development of a wastewater network 4. Development of the Public Health Center (PHC) 5. Development in the agricultural field (roads and cisterns).
25	301670	Abu Shukheidim	Ramallah	90	10	50	0	100	90	0	0	60	30	8	5	Main source of water is Ein Samya through the Jerusalem Water Undertaking (JWU) that supplies about 3180 m3/month. Major needs of the community: 1. Extension of the water network 2. Development of a wastewater network.
26	301680	Dura al Qar'	Ramallah	100	0	40	25	75	100	0	0	70	25	15	2	Main source of water is from Ein Samya wells through the Jerusalem Water Undertaking (JWU). Major needs: 1. Development of a waste water network 2. Agriculture roads and land reclamation
27	301695	Al Mazra'a al Qibliya	Ramallah	90	10	50	0	100	90	0	0	65	30	10	10	Main source of water is Ein Samya wells through the Jerusalem Water Undertaking

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																(JWU) that supplies about 5400 m ³ /month. Major needs of the community are: 1. Development of a wastewater network 2. Public Health Center (PHC) 3. During the year 2005, 17 cases of Hepatitis A were recorded in the community; it is thought that this is related to used of water from different sources through tankers
28	301710	Deir Qaddis	Ramallah	100	0	89	0	100	100	0	100	35	6	8	4	Main source of water is from Ein Samya wells through the Jerusalem Water Undertaking (JWU) The community recently got a new water network and new types of water meters; this reduced the losses from about 32% to only 5%. Major and direct needs: 1. Development of a wastewater network 2. Distribution reservoir
29	301785	Deir Dibwan	Ramallah	80	20	75	0	100	100	0	0	90	5	8	5	Main source of water is form Ein Samya wells through Jerusalem Water

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																Undertaking (JWU) The community is in need of a wastewater network
30	301805	Saffa	Ramallah	80	20	60	0	100	98	1	100	60	10	7.5	4	Major needs of the community: 1. Cisterns for agricultural and Domestic use. 2. Rehabilitation and extension of the water network 3. Wastewater treatment plants 4. Households water filters.
31	301820	Beit 'Ur at Tahta	Ramallah	98	2	50	0	100	100	0	100	65	35	8	3	The community has a very old water network with high percentage of losses. Major needs in the community: 1. Rehabilitation of the water network 2. Development of a wastewater network. 3. Public Health Center (PHC). 4. Dumping site for solid waste 5. Suitable solution for the wastewater flowing in Wadi Jaryut which is affecting negatively the people and environment.
32	301850	Beit Sira	Ramallah	90	10	50	0	100	5	0	100	50	3	10	3	Main source of water is Ein Samya wells through the Jerusalem Water Undertaking

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																(JWU). In about 10% of the households, the water pressure is week and therefore, supplied quantities are very limited. Major needs in the community: 1. Rehabilitation of the water network 2. Distribution reservoir 3. Development of a wastewater network.
33	301855	Kharbatha al Misbah	Ramallah	40	60	40	0	100	100	0	100	60	15	5	2	
34	301895	Beit Liqya	Ramallah	60	40	65	0	100	90	1	100	65	55	3	1	Major needs in the community: 1. Rehabilitation of the water network 2. Development of a wastewater network 3. Public Health Center (PHC)
35	351110	Az Zubeidat	Jericho	80	20	120	0	100	100		100	0	0	4	8	Major source of supply for domestic use is Mekorot company that supply about 1800 m3/ month. A local groundwater well is being used for agriculture which supplies about 10,000 m3/month of brackish water (most of it is used for air conditioning during summer)

Table 3: Relative change in tankers water price

No.	Community ID	Community Name	Governorate	Population 2006	Tankers Average Price now / NIS per m ³	Tankers Average Price before / NIS per m ³
1	151030	Furush Beit Dajan	Nablus	1253	15.0	10.0
2	200925	Kafr Qaddum	Qalqiliya	3776	15.0	12.0
3	200970	Hajja	Qalqiliya	2734	13.0	13.0
4	201085	Jinsafut	Qalqiliya	2464	14.0	14.0
5	201105	'Arab ar Ramadin al Janubi	Qalqiliya	210	12.0	10.0
6	201225	'Izbat al Ashqar	Qalqiliya	452	7.0	7.0
7	301595	Shuqba	Ramallah	4686	25.0	12.5
8	301605	Qibya	Ramallah	5328	22.5	25.0
9	301665	Budrus	Ramallah	1635	20.0	20.0
10	301670	Abu Shukheidim	Ramallah	2011	25.0	
11	301680	Dura al Qar'	Ramallah	2961	25.0	19.0
12	301695	Al Mazra'a al Qibliya	Ramallah	4589	25.0	0.0
13	301785	Deir Dibwan	Ramallah	7489	25.0	22.0
14	301805	Saffa	Ramallah	4369	15.0	10.0
15	301820	Beit 'Ur at Tahta	Ramallah	4770	17.0	10.0
16	301855	Kharbatha al Misbah	Ramallah	5670	12.5	6.0

Table 4: Effects of fixed checkpoints on communities

No.	Community ID	Community Name	Governorate	FCP Effect on Tankers Supply	FCP Name	FCP Effect on Maintenance Team Access	FCP Name	FCP Effect on PHC Access	FCP Name
1	151030	Furush Beit Dajan	Nablus	1	Al Hamra checkpoint			2	Al Hamra checkpoint
2	200905	Falama	Qalqiliya			1	Qalqiliya gate	1	Qalqiliya gate
3	200925	Kafr Qaddum	Qalqiliya			1	Qalqiliya	1	Qalqiliya
4	200945	Jit	Qalqiliya			1	Beit Iba and Qalqiliya gate	1	Beit Iba
5	200970	Hajja	Qalqiliya	1	Qalqiliya gate			1	Qalqiliya gate
6	201035	Al Funduq	Qalqiliya			1	Qalqiliya	1	Qalqiliya
7	201055	An Nabi Elyas	Qalqiliya			1	Qalqiliya gate	1	Qalqiliya gate
8	201065	Kafr Laqif	Qalqiliya			1	Qalqiliya	1	Qalqiliya
9	201075	'Izbat at Tabib	Qalqiliya			1	Qalqiliya	1	Qalqiliya
10	201085	Jinsafut	Qalqiliya					1	Beit Iba and Qalqiliya.
11	201105	'Arab ar Ramadin al Janubi	Qalqiliya	1	Wall	1	Wall	1	Wall
12	201130	Ras at Tira	Qalqiliya			2	Ras Tira / Ad Dab' / gate, Beit Iba, abd Al Kafriyat (Permits only).	2	Ras Tira / Ad Dab' / gate, Beit Iba, abd Al Kafriyat
13	201155	Ras 'Atiya	Qalqiliya			1	Beit Iba / Nablus	1	Beit Iba / Nablus, Al Kafriyat / Tulkarem
14	201210	'Izbat Salman	Qalqiliya			1	Al Kafriya / Tulkarem, Beit Iba and Howwara / Nablus	1	Al Kafriya / Tulkarem, Beit Iba and Howwara / Nablus
15	201225	'Izbat al Ashqar	Qalqiliya			1	Al Kafriyat, Beit Iba, and	1	Al Kafriyat, Beit Iba, and Howwara

No.	Community ID	Community Name	Governorate	FCP Effect on Tankers Supply	FCP Name	FCP Effect on Maintenance Team Access	FCP Name	FCP Effect on PHC Access	FCP Name
							Howwara		
16	201280	'Azzun 'Atma	Qalqiliya			2	Azun Atma / Wall gate, Al Kafryat/ Tulkarem, and Beit Iba/ Nablus	2	Azun Atma / Wall gate, Al Kafryat/ Tulkarem, and Beit Iba/ Nablus
17	301595	Shuqba	Ramallah					1	'Atata and Ni'lin checkpoints
18	301605	Qibya	Ramallah	1		1		1	
19	301610	Silwad	Ramallah					1	Aufra checkpoint
20	351110	Az Zubeidat	Jericho					2	Al Hamra checkpoint

