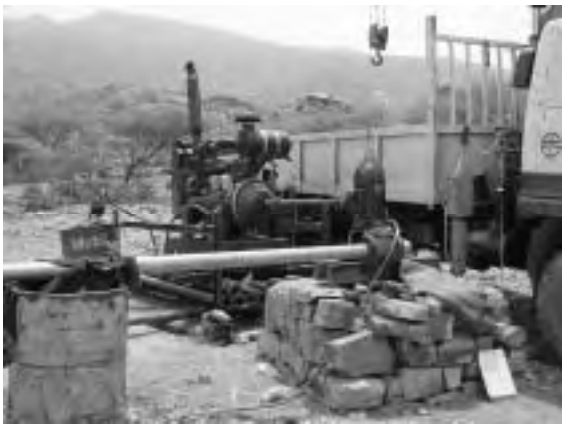
12.2 Inventory of Water Sources – Al Mahweet

Site Code	Site Name	District	Governorate
A-01	*Al Sha'afel Al Olyah & Sufla*	*Al Khabt*	*Al Mahweet*
Research Item	*1 pumping test, 2 water samplings for quality analysis*		

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
A-01	*New projected deep well*	**Code:**	*A-01*	**Code:**	*A-01*



Latitude N	Longitude E	Altitude (m)	Present Condition
15° 27' 27.0"	*43° 17' 58.1"*	*357*	*Capped*

Year Const.	Depth (m)	Casing Dia. (inch)	Screen
2005	*192*	*8*	

Aquifer / Geological description	Static Water Level (G.L.-m)	Drawdown (m)	Discharge (L/sec)	Specific Capacity (L/s/m)
	20.12	*46.09*	*4.4*	*0.096*

EC (mS/m)	pH	Temp. (°C)	Remarks
180.9	*6.61*	*34.7*	

12.2 Inventory of Water Sources – Al Mahweet

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
A-01/2	*Other Water Source*	**Code:**	---	**Code:**	*A-01/2*

Latitude N	Longitude E	Altitude (m)	Source Type
15° 27' 00.0"	*43° 17' 21.1"*	*295*	*Dug Well*
EC (mS/m)	**pH**	**Temp. (°C)**	**Remarks**
85.2	*7.26*	*32.9*	*Lower Sha'afel*

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
A-01/3	*Other Water Source*	**Code:**	---	**Code:**	*A-01/3*

Latitude N	Longitude E	Altitude (m)	Source Type
15° 28' 36.0"	*43° 19' 00.0"*	*1,042*	*Rain Water*
EC (mS/m)	**pH**	**Temp. (°C)**	**Remarks**
25.7	*8.10*	*30.0*	*Upper Sha'afel*

12.2 Inventory of Water Sources – Al Mahweet

Site Code	Site Name	District	Governorate
A-02	*Jabal Al Taraf*	*Al Mahweet*	*Al Mahweet*
Research Item	*1 pumping test, 1 water sampling for quality analysis*		

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
A-02	*Existing projected deep well*	**Code:**	*A-02*	**Code:**	*A-02*

Latitude N	Longitude E	Altitude (m)	Present Condition
15° 26' 20.4"	*43° 30' 26.1"*	*1,111*	*Working vertical pump*

Year Const.	Depth (m)	Casing Dia. (inch)	Screen
1997	*165*	*8-5/8*	

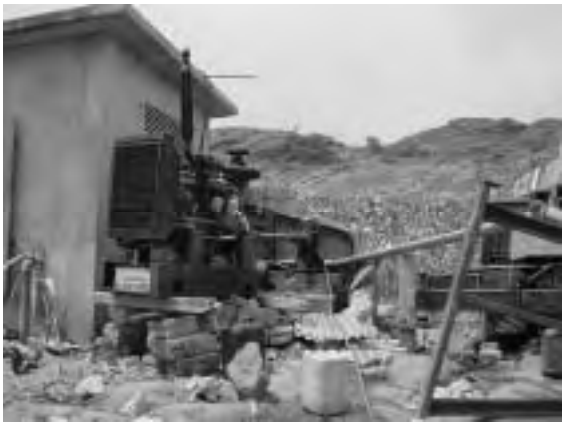
Aquifer / Geological description	Static Water Level (G.L.-m)	Drawdown (m)	Discharge (L/sec)	Specific Capacity (L/s/m)

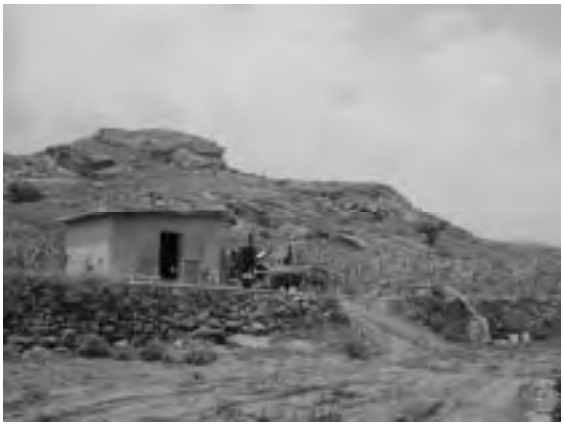
EC (mS/m)	pH	Temp. (°C)	Remarks
71.0	*7.27*	*29.1*	

12.2 Inventory of Water Sources – Al Mahweet

Site Code	Site Name	District	Governorate
A-03	*Ozlat Al Jaradi*	*Al Rujum*	*Al Mahweet*
Research Item	*1 pumping test, 1 water sampling for quality analysis*		

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
A-03	*Existing projected deep well*	**Code:**	*A-03*	**Code:**	*A-03*





Latitude N	Longitude E	Altitude (m)	Present Condition
15° 27' 53.0"	*43° 37' 41.9"*	*1,986*	*Working submersible pump*

Year Const.	Depth (m)	Casing Dia. (inch)	Screen
1990	*150*	*10*	

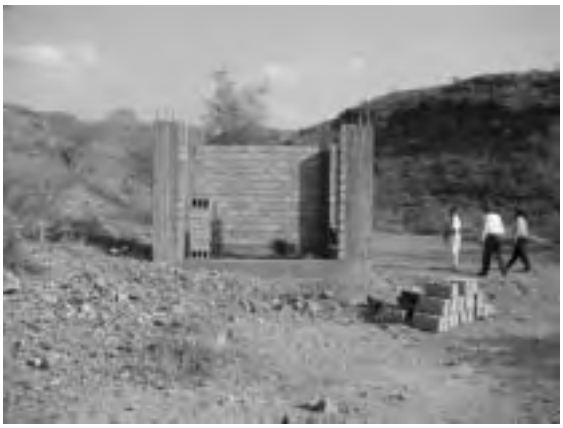
Aquifer / Geological description	Static Water Level (G.L.-m)	Drawdown (m)	Discharge (L/sec)	Specific Capacity (L/s/m)

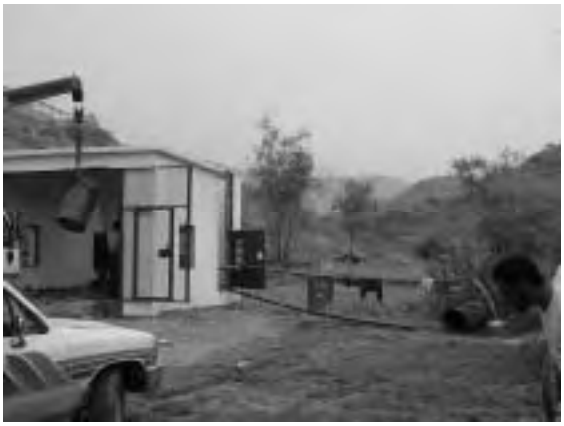
EC (mS/m)	pH	Temp. (°C)	Remarks
31.2	*6.70*	*24.7*	

12.2 Inventory of Water Sources – Al Mahweet

Site Code	Site Name	District	Governorate
A-04	*Al Khamis-Bani Ali*	*Bani Sa'ad*	*Al Mahweet*
Research Item	*1 pumping test, 2 water samplings for quality analysis*		

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
A-04	*New projected deep well*	**Code:**	*A-04*	**Code:**	*A-04*





Latitude N	Longitude E	Altitude (m)	Present Condition
15° 10' 54.4"	*43° 29' 56.4"*	*458*	*Capped*

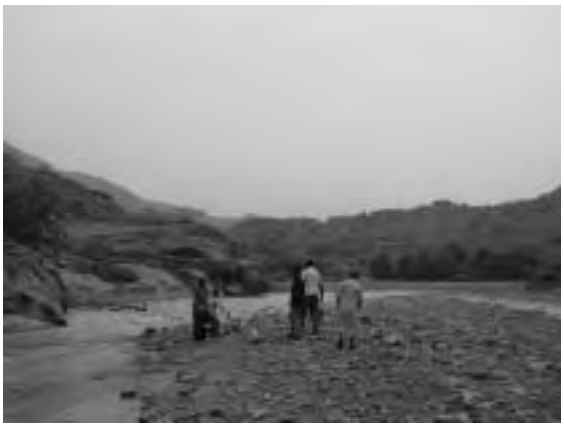
Year Const.	Depth (m)	Casing Dia. (inch)	Screen
2001	*92*	*10*	*32-92*

Aquifer / Geological description	Static Water Level (G.L.-m)	Drawdown (m)	Discharge (L/sec)	Specific Capacity (L/s/m)
	6.66	*35.48*	*4.4*	*0.124*

EC (mS/m)	pH	Temp. (°C)	Remarks
283.0	*6.99*	*33.4*	

12.2 Inventory of Water Sources – Al Mahweet

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
A-04/2	*Other Water Source*	**Code:**	---	**Code:**	*A-04/2*



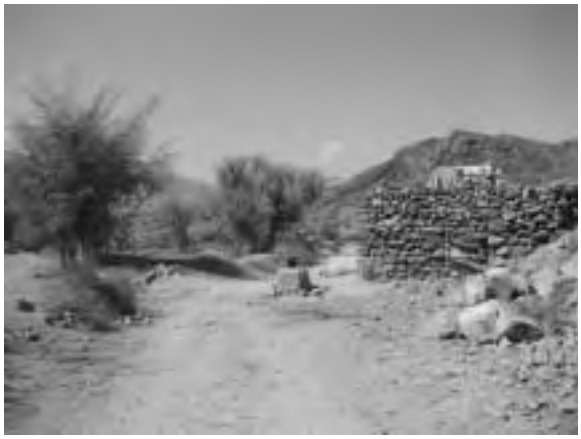
Latitude N	Longitude E	Altitude (m)	Source Type
15° 11' 03.7"	*43° 29' 56.5"*	*457*	*River*

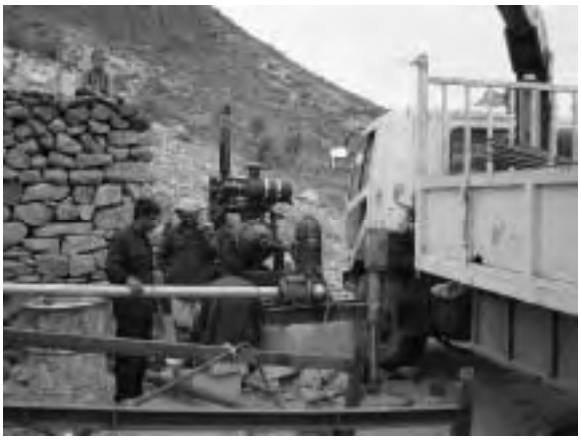
EC (mS/m)	pH	Temp. (°C)	Remarks
63.9	*7.60*	*29.3*	

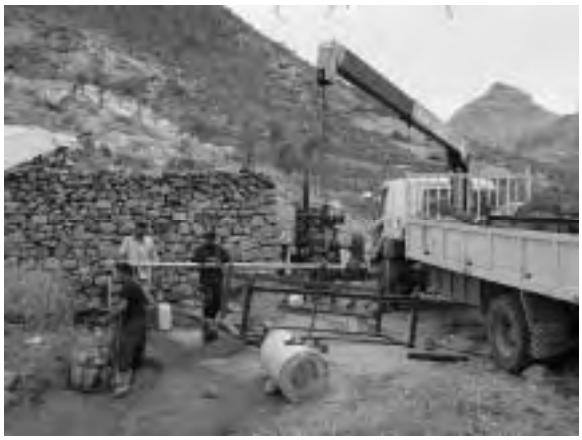
12.2 Inventory of Water Sources – Sana'a

Site Code	Site Name	District	Governorate
S-01	*Bani Waleed - Al Asboor*	*Al Haymah Al Kharijiyah*	*Sana'a*
Research Item	*2 pumping test, 3 water samplings for quality analysis*		

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
S-01/1	*New projected deep well (Bani Waleed)*	**Code:**	*S-01/1*	**Code:**	*S-01/1*







Latitude N	Longitude E	Altitude (m)	Present Condition
15° 00' 33.1"	*43° 53' 10.1"*	*1,664*	*Capped*

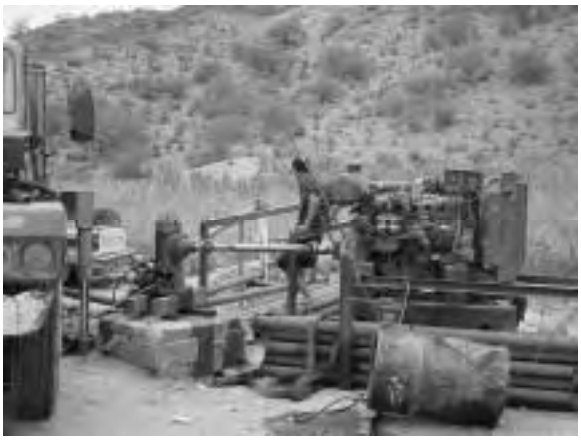
Year Const.	Depth (m)	Casing Dia. (inch)	Screen
2005	*348*	*8*	

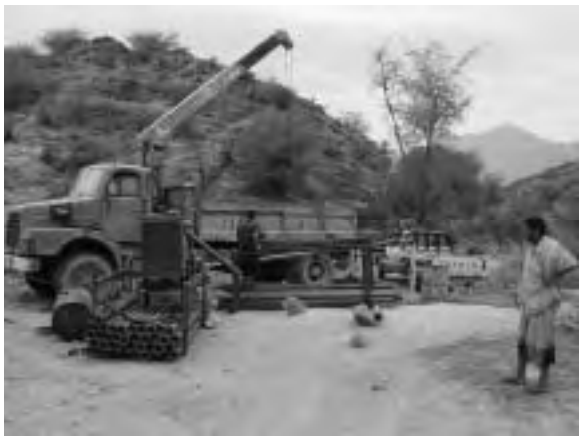
Aquifer / Geological description	Static Water Level (G.L.-m)	Drawdown (m)	Discharge (L/sec)	Specific Capacity (L/s/m)

EC (mS/m)	pH	Temp. (°C)	Remarks
120.8	*7.04*	*30.7*	

12.2 Inventory of Water Sources – Sana'a

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
S-01/2	*New projected deep well (Al Asboor)*	**Code:**	*S-01/2*	**Code:**	*S-01/2*





Latitude N	Longitude E	Altitude (m)	Present Condition
15° 00' 32.8"	*43° 52' 49.4"*	*1,654*	*Capped*

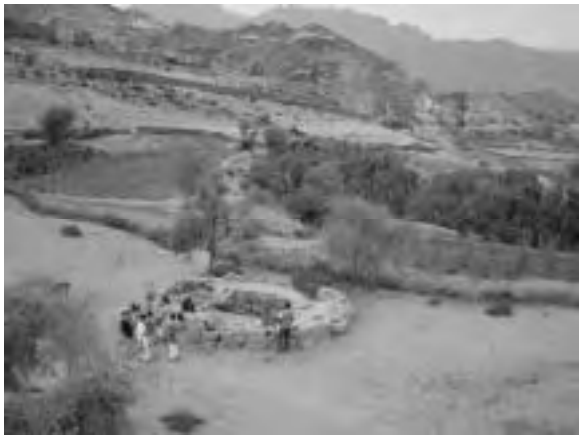
Year Const.	Depth (m)	Casing Dia. (inch)	Screen
2005	*300*	*8*	

Aquifer / Geological description	Static Water Level (G.L.-m)	Drawdown (m)	Discharge (L/sec)	Specific Capacity (L/s/m)

EC (mS/m)	pH	Temp. (°C)	Remarks
113.9	*6.70*	*29.4*	

12.2 Inventory of Water Sources – Sana'a

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
S-01/3	*Other Water Source*	**Code:**	---	**Code:**	*S-01/3*



Latitude N	Longitude E	Altitude (m)	Source Type
15° 00' 24.0"	*43° 55' 34.4"*	*1,692*	*Dug Well*

EC (mS/m)	pH	Temp. (°C)	Remarks
54.6	*7.40*	*23.9*	

12.2 Inventory of Water Sources – Sana'a

Site Code	Site Name	District	Governorate
S-02	*Jarban*	*Hamdan*	*Sana'a*
Research Item	*1 pumping test, 2 water samplings for quality analysis*		

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
S-02	*Existing projected deep well*	**Code:**	*S-02*	**Code:**	*S-02*




Latitude N	Longitude E	Altitude (m)	Present Condition
15° 34' 49.2"	*44° 03' 01.1"*	*2,642*	*Capped*

Year Const.	Depth (m)	Casing Dia. (inch)	Screen
2005	*450*	*10*	

Aquifer / Geological description	Static Water Level (G.L.-m)	Drawdown (m)	Discharge (L/sec)	Specific Capacity (L/s/m)
	346.04		*2.0*	

EC (mS/m)	pH	Temp. (°C)	Remarks
28.8	*8.08*	*25.4*	*Constant discharge test only*

12.2 Inventory of Water Sources – Sana'a

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
S-02/2	*Other Water Source*	**Code:**	---	**Code:**	*S-02/2*

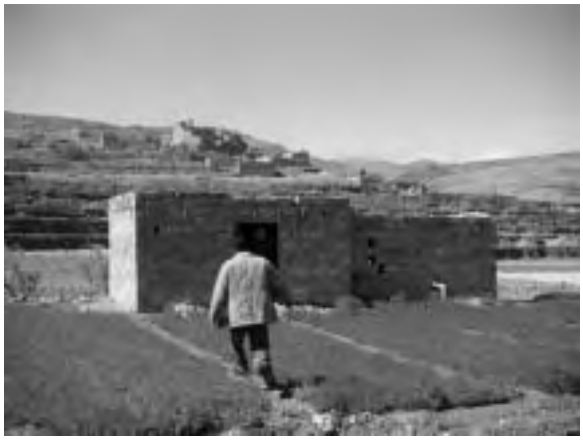
Latitude N	Longitude E	Altitude (m)	Source Type
15^{o} 34' 58.7"	*44^{o} 03' 47.3"*	*2,607*	*Rain Water (cistern)*

EC (mS/m)	pH	Temp. (^{o}C)	Remarks
13.5	*9.09*	*18.3*	

12.2 Inventory of Water Sources – Sana'a

Site Code	Site Name	District	Governorate
S-03	*Al Kharaba*	*Bani Matar*	*Sana'a*
Research Item	*1 pumping test, 2 water samplings for quality analysis*		

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
S-03	*Existing projected deep well*	**Code:**	*S-03*	**Code:**	*S-03*



Latitude N	Longitude E	Altitude (m)	Present Condition
15° 18' 47.2"	*43° 58' 56.4"*	*2,935*	*Unused vertical pump*

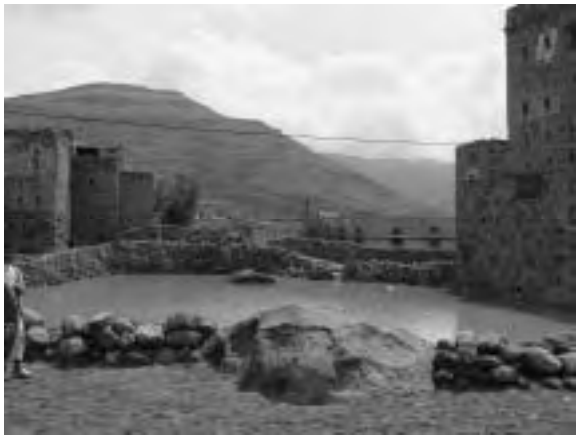
Year Const.	Depth (m)	Casing Dia. (inch)	Screen
1982	*150*	*8-5/8*	

Aquifer / Geological description	Static Water Level (G.L.-m)	Drawdown (m)	Discharge (L/sec)	Specific Capacity (L/s/m)
	44.93	*35.89*	*3.5*	*0.097*

EC (mS/m)	pH	Temp. (°C)	Remarks
61.5	*7.64*	*18.1*	

12.2 Inventory of Water Sources – Sana'a

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
S-03/2	*Other Water Source*	**Code:**	---	**Code:**	*S-03/2*

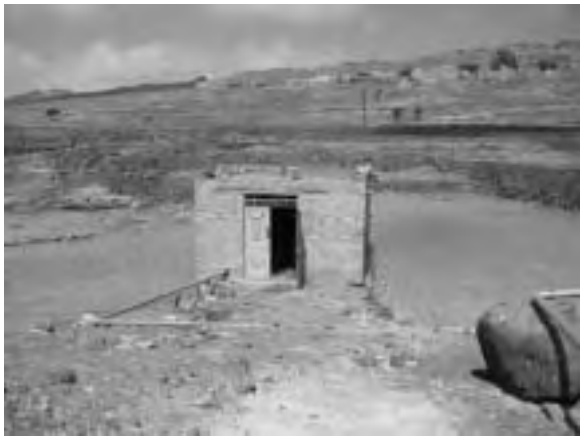


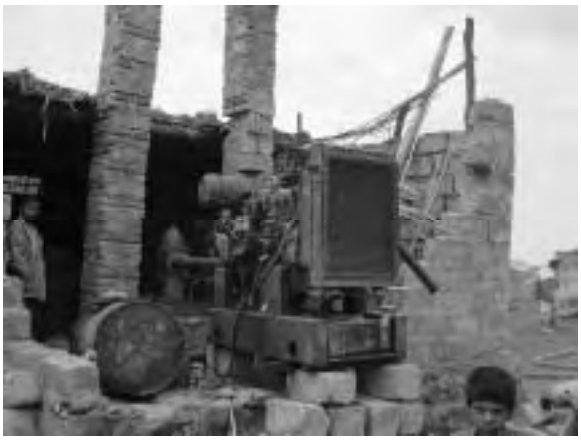
Latitude N	Longitude E	Altitude (m)	Source Type
15^{o} 18' 34.6"	*44^{o} 59' 02.2"*	*2,967*	*Rain Water (cistern)*
EC (mS/m)	**pH**	**Temp. (^{o}C)**	**Remarks**
20.4	*8.14*	*18.8*	

12.2 Inventory of Water Sources – Sana'a

Site Code	Site Name	District	Governorate
S-04	*Qamlan-Bait Al Najrani*	*Bani Matar*	*Sana'a*
Research Item	*1 pumping test, 1 water sampling for quality analysis*		

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
S-04	*Existing projected deep well*	**Code:**	*S-04*	**Code:**	*S-04*





Latitude N	Longitude E	Altitude (m)	Present Condition
15° 10' 31.1"	*43° 58' 27.4"*	*2,748*	*Working vertical pump*

Year Const.	Depth (m)	Casing Dia. (inch)	Screen
1975	*145*	*8*	

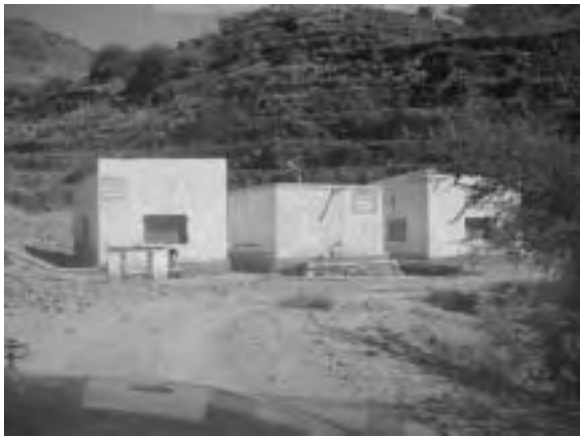
Aquifer / Geological description	Static Water Level (G.L.-m)	Drawdown (m)	Discharge (L/sec)	Specific Capacity (L/s/m)
	10.01	*0.91*	*5.6*	*6.154*

EC (mS/m)	pH	Temp. (°C)	Remarks
33.8	*7.36*	*19.9*	

12.2 Inventory of Water Sources – Sana'a

Site Code	Site Name	District	Governorate
S-05	*Afesh*	*Belad Al Rous*	*Sana'a*
Research Item	*1 pumping test, 2 water samplings for quality analysis*		

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
S-05	*Existing projected deep well*	**Code:**	*S-05*	**Code:**	*S-05*



Latitude N	Longitude E	Altitude (m)	Present Condition
15° 04' 23.5"	*44° 13' 31.2"*	*2,006*	*Unused (open)*

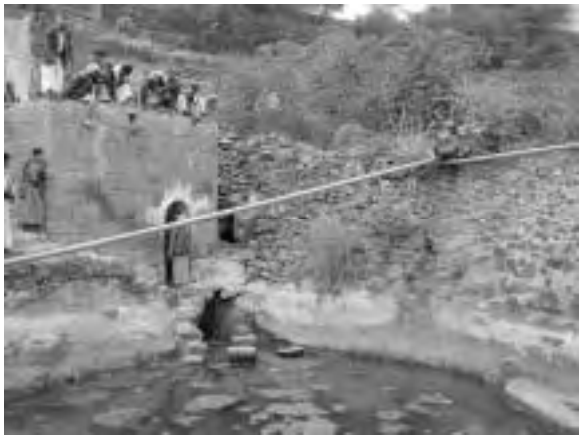
Year Const.	Depth (m)	Casing Dia. (inch)	Screen
1996	*300*	*8*	

Aquifer / Geological description	Static Water Level (G.L.-m)	Drawdown (m)	Discharge (L/sec)	Specific Capacity (L/s/m)
	212.97	*18.24*	*3.2*	*0.17*

EC (mS/m)	pH	Temp. (°C)	Remarks
125.6	*7.48*	*32.7*	

12.2 Inventory of Water Sources – Sana'a

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
S-05/2	*Other Water Source*	**Code:**	---	**Code:**	*S-05/2*

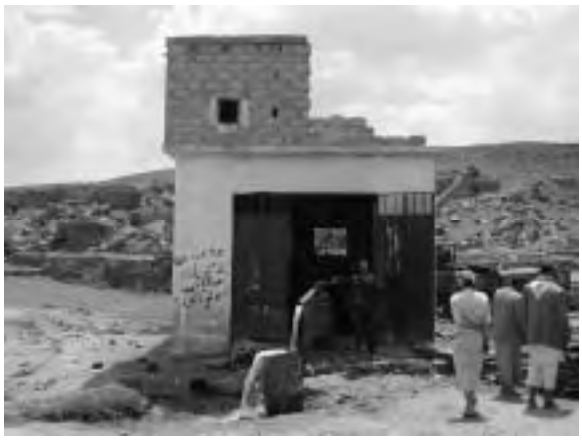


Latitude N	Longitude E	Altitude (m)	Source Type
15^{o} 04' 24.1"	*44^{o} 13' 31.2"*	*2,967*	*Spring (canal beside mosque)*
EC (mS/m)	**pH**	**Temp. (^{o}C)**	**Remarks**
68.2	*7.83*	*23.2*	

12.2 Inventory of Water Sources – Sana'a

Site Code	Site Name	District	Governorate
S-06	*Al Lejam*	*Sanhan & Bany Bahlool*	*Sana'a*
Research Item	*1 pumping test, 1 water sampling for quality analysis*		

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
S-06	*Existing projected deep well*	**Code:**	*S-06*	**Code:**	*S-06*



Latitude N	Longitude E	Altitude (m)	Present Condition
15° 16' 56.6"	*44° 21' 38.7"*	*2,435*	*Working vertical pump*

Year Const.	Depth (m)	Casing Dia. (inch)	Screen
1993	*300*	*8*	

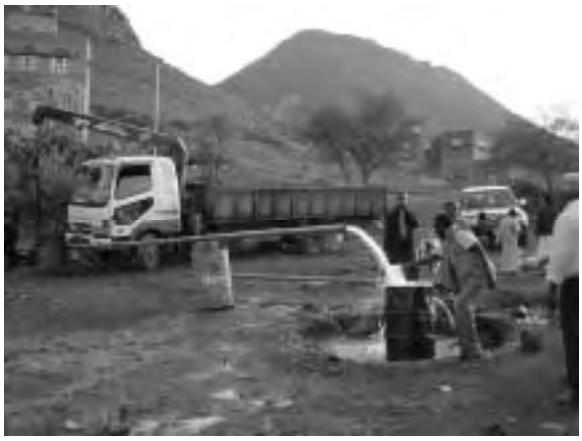
Aquifer / Geological description	Static Water Level (G.L.-m)	Drawdown (m)	Discharge (L/sec)	Specific Capacity (L/s/m)
	148.66		*4.2*	

EC (mS/m)	pH	Temp. (°C)	Remarks
57.7	*9.27*	*31.9*	

12.2 Inventory of Water Sources – Sana'a

Site Code	Site Name	District	Governorate
S-07	*Bait Al Hadrami*	*Sanhan & Bany Bahlool*	*Sana'a*
Research Item	*1 pumping test, 2 water samplings for quality analysis*		

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
S-07	*New projected deep well*	**Code:**	*S-07*	**Code:**	*S-07*



Latitude N	Longitude E	Altitude (m)	Present Condition
15° 14' 44.0"	*44° 17' 23.6"*	*2,374*	*Capped*

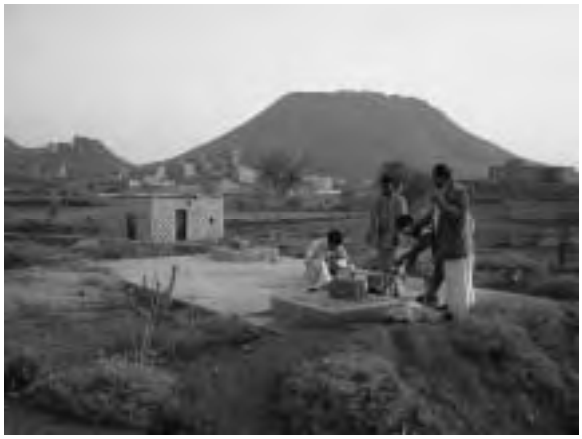
Year Const.	Depth (m)	Casing Dia. (inch)	Screen
2005	*410*	*8*	

Aquifer / Geological description	Static Water Level (G.L.-m)	Drawdown (m)	Discharge (L/sec)	Specific Capacity (L/s/m)
	193.22	*3.90*	*3.2*	*0.82*

EC (mS/m)	pH	Temp. (°C)	Remarks
38.5	*8.54*	*31.3*	

12.2 Inventory of Water Sources – Sana'a

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
S-07/2	*Other Water Source*	**Code:**	---	**Code:**	*S-07/2*



Latitude N	Longitude E	Altitude (m)	Source Type
15^{o} 15' 04.5"	*44^{o} 17' 30.6"*	*2,365*	*Private well*

EC (mS/m)	pH	Temp. (^{o}C)	Remarks
42.6	*9.23*	*24.2*	

12.2 Inventory of Water Sources – Sana'a

Site Code	Site Name	District	Governorate
S-08	*Dajah & Sarfah*	*Sanhan & Bany Bahlool*	*Sana'a*
Research Item	*1 pumping test, 2 water samplings for quality analysis*		

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
S-08	*New projected deep well*	**Code:**	*S-08*	**Code:**	*S-08*

Latitude N	Longitude E	Altitude (m)	Present Condition
15° 21' 20.4"	*44° 25' 25.3"*	*2,567*	*Capped*

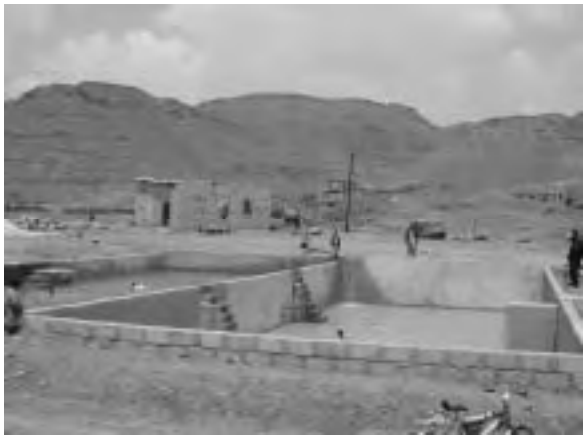
Year Const.	Depth (m)	Casing Dia. (inch)	Screen
2006	*672*	*10*	

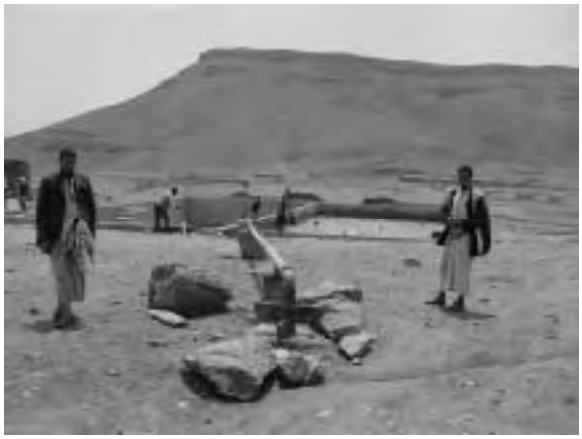
Aquifer / Geological description	Static Water Level (G.L.-m)	Drawdown (m)	Discharge (L/sec)	Specific Capacity (L/s/m)
	468.33			

EC (mS/m)	pH	Temp. (°C)	Remarks
143.9	*8.69*	*48.5*	*Pumping test carried by GARWSP*

12.2 Inventory of Water Sources – Sana'a

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
S-08/2	*Other Water Source*	**Code:**	---	**Code:**	*S-08/2*





Latitude N	Longitude E	Altitude (m)	Source Type
15° 21' 58.0"	*44° 26' 26.5"*	*2,604*	*Private well*

EC (mS/m)	pH	Temp. (°C)	Remarks
94.5	*7.92*	*45.5*	

12.2 Inventory of Water Sources – Sana'a

Site Code	Site Name	District	Governorate
S-09	*Ruhm*	*Sanhan & Bany Bahlool*	*Sana'a*
Research Item	*1 pumping test, 2 water samplings for quality analysis*		

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
S-09	*New projected deep well*	**Code:**	*S-09*	**Code:**	*S-09*

Latitude N	Longitude E	Altitude (m)	Present Condition
15° 11' 04.1"	*44° 14' 34.0"*	*2,395*	*Capped*

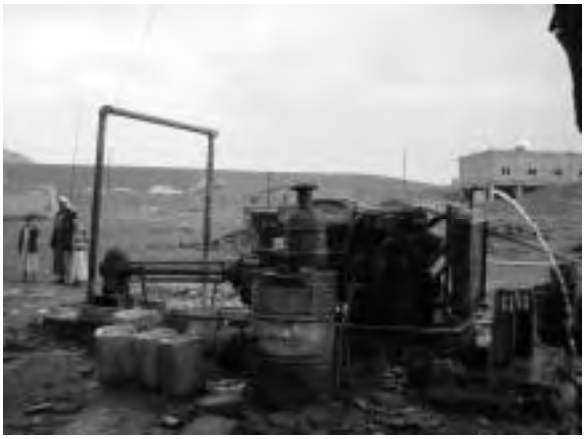
Year Const.	Depth (m)	Casing Dia. (inch)	Screen
2003	*470*	*8*	

Aquifer / Geological description	Static Water Level (G.L.-m)	Drawdown (m)	Discharge (L/sec)	Specific Capacity (L/s/m)
	192.5		*3.0*	

EC (mS/m)	pH	Temp. (°C)	Remarks
38.5	*7.94*	*28.3*	

12.2 Inventory of Water Sources – Sana'a

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
S-09/2	*Other Water Source*	**Code:**	---	**Code:**	*S-09/2*



Latitude N	Longitude E	Altitude (m)	Source Type
15° 11' 46.4"	*44° 14' 43.8"*	*2,378*	*Vendor*

EC (mS/m)	pH	Temp. (°C)	Remarks
51.0	*7.60*	*24.1*	

12.2 Inventory of Water Sources – Sana'a

Site Code	Site Name	District	Governorate
S-10	*Tawa'ar*	*Al Hesn*	*Sana'a*
Research Item	*2 pumping test, 2 water samplings for quality analysis*		

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
S-10/1	*Existing projected deep well*	**Code:**	*S-10/1*	**Code:**	*S-10/1*

No photo

Latitude N	Longitude E	Altitude (m)	Present Condition
15° 03' 19.1"	*44° 29' 18.2"*	*2,230*	*Working submersible pump*

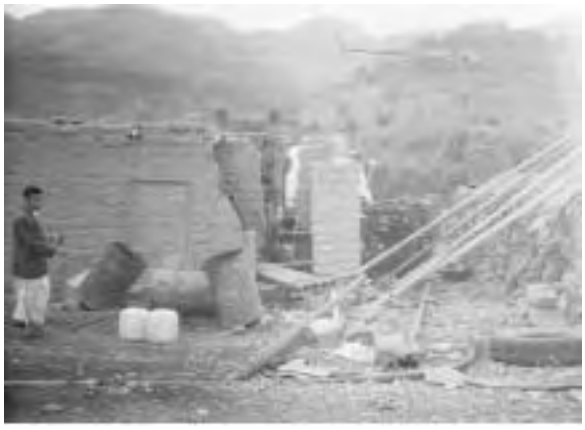
Year Const.	Depth (m)	Casing Dia. (inch)	Screen
1994	*280*		

Aquifer / Geological description	Static Water Level (G.L.-m)	Drawdown (m)	Discharge (L/sec)	Specific Capacity (L/s/m)
	135.35		*2.1*	

EC (mS/m)	pH	Temp. (°C)	Remarks
112.7	*9.45*	*28.8*	

12.2 Inventory of Water Sources – Sana'a

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
S-10/2	*Existing projected deep well*	**Code:**	*S-10/2*	**Code:**	*S-10/2*



No photo

Latitude N	Longitude E	Altitude (m)	Present Condition
15° 00' 13.8"	*44° 28' 54.4"*	*2,259*	*Working vertical pump*

Year Const.	Depth (m)	Casing Dia. (inch)	Screen
2004	*310*	*8*	

Aquifer / Geological description	Static Water Level (G.L.-m)	Drawdown (m)	Discharge (L/sec)	Specific Capacity (L/s/m)
	145.27		*5.1*	

EC (mS/m)	pH	Temp. (°C)	Remarks
103.3	*8.91*	*30.4*	

12.2 Inventory of Water Sources – Sana'a

Site Code	Site Name	District	Governorate
S-11	*Al Hesn-Al Abyad*	*Jehana*	*Sana'a*
Research Item	*2 pumping test, 2 water samplings for quality analysis*		

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
S-11/1	*New projected deep well*	**Code:**	*S-11/1*	**Code:**	*S-11/1*

Latitude N	Longitude E	Altitude (m)	Present Condition
15° 11' 33.3"	*44° 27' 49.8"*	*2,310*	*Capped*

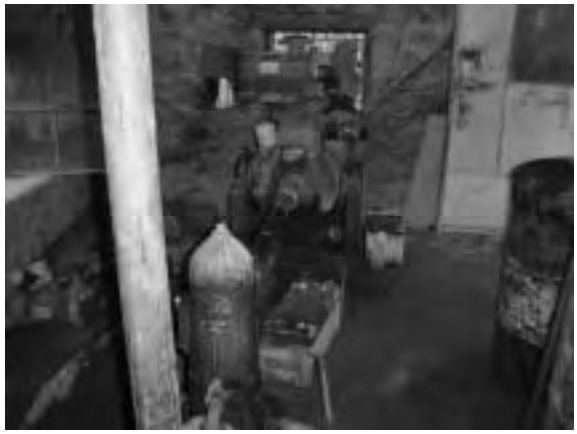
Year Const.	Depth (m)	Casing Dia. (inch)	Screen
2005	*350*	*8*	

Aquifer / Geological description	Static Water Level (G.L.-m)	Drawdown (m)	Discharge (L/sec)	Specific Capacity (L/s/m)
	153.49		*3.8*	

EC (mS/m)	pH	Temp. (°C)	Remarks
119.5	*8.37*	*32.9*	

12.2 Inventory of Water Sources – Sana'a

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
S-11/2	*Existing projected deep well*	**Code:**	*S-11/2*	**Code:**	*S-11/2*



Latitude N	Longitude E	Altitude (m)	Present Condition
15° 11' 43.1"	*44° 27' 44.9"*	*2,300*	*Working vertical pump*

Year Const.	Depth (m)	Casing Dia. (inch)	Screen
1980	*180*	*6*	

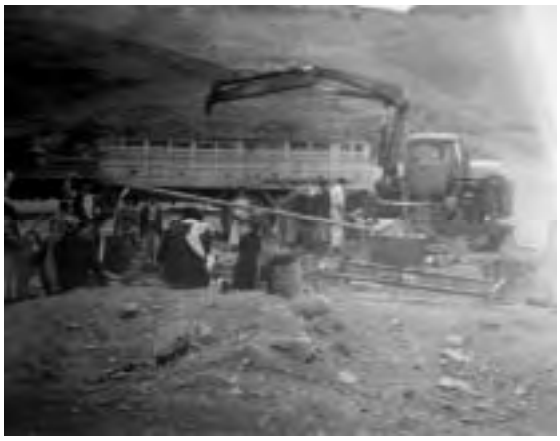
Aquifer / Geological description	Static Water Level (G.L.-m)	Drawdown (m)	Discharge (L/sec)	Specific Capacity (L/s/m)

EC (mS/m)	pH	Temp. (°C)	Remarks
101.8	*8.09*	*31.5*	*Pumping tests canceled (cannot set equipments)*

12.2 Inventory of Water Sources – Sana'a

Site Code	Site Name	District	Governorate
S-12	*Mahdah*	*Jehana*	*Sana'a*
Research Item	*1 pumping test, 2 water samplings for quality analysis*		

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
S-12	*New projected deep well*	**Code:**	*S-12*	**Code:**	*S-12*



Latitude N	Longitude E	Altitude (m)	Present Condition
15° 09' 06.7"	*44° 28' 16.0"*	*2,315*	*Capped*

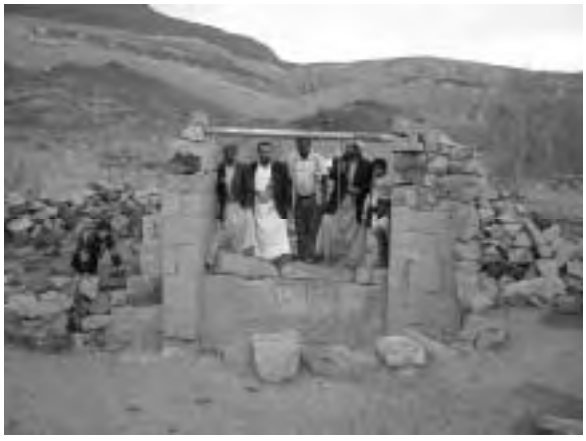
Year Const.	Depth (m)	Casing Dia. (inch)	Screen
2005	*350*	*8*	

Aquifer / Geological description	Static Water Level (G.L.-m)	Drawdown (m)	Discharge (L/sec)	Specific Capacity (L/s/m)
	58.60		*2.1*	

EC (mS/m)	pH	Temp. (°C)	Remarks
39.7	*9.66*	*24.6*	

12.2 Inventory of Water Sources – Sana'a

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
S-12/2	*Other Water Source*	**Code:**	---	**Code:**	*S-12/2*



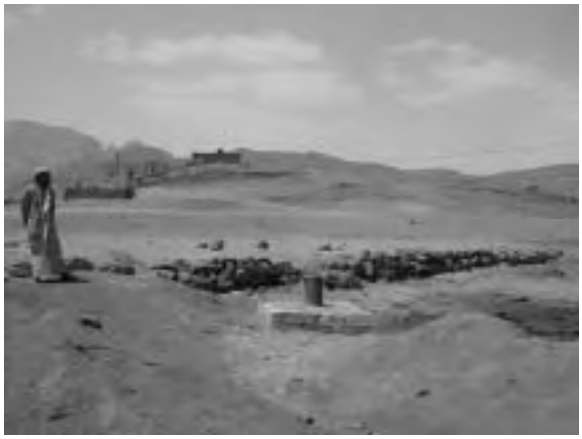
Latitude N	Longitude E	Altitude (m)	Source Type
15^{o} 09' 01.8"	*44^{o} 28' 10.9"*	*2,313*	*Dug well*

EC (mS/m)	pH	Temp. (^{o}C)	Remarks
73.1	*7.95*	*20.6*	

12.2 Inventory of Water Sources – Sana'a

Site Code	Site Name	District	Governorate
S-13	*Al Ga'ra*	*Alteyal*	*Sana'a*
Research Item	*1 pumping test, 2 water samplings for quality analysis*		

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
S-13	*New projected deep well*	**Code:**	*S-13*	**Code:**	*S-13*



Latitude N	Longitude E	Altitude (m)	Present Condition
15° 19' 54.9"	*44° 27' 48.4"*	*2,603*	*Capped*

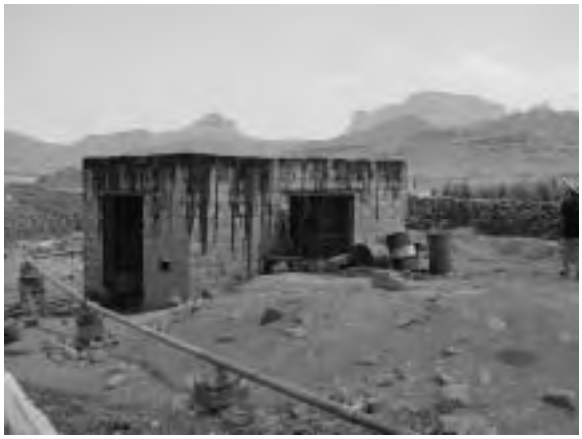
Year Const.	Depth (m)	Casing Dia. (inch)	Screen
2006	*840*		

Aquifer / Geological description	Static Water Level (G.L.-m)	Drawdown (m)	Discharge (L/sec)	Specific Capacity (L/s/m)
			2.1	

EC (mS/m)	pH	Temp. (°C)	Remarks
80.6	*8.20*	*54.3*	*Pumping test carried by GARWSP*

12.2 Inventory of Water Sources – Sana'a

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
S-13/2	*Other Water Source*	**Code:**	---	**Code:**	*S-13/2*



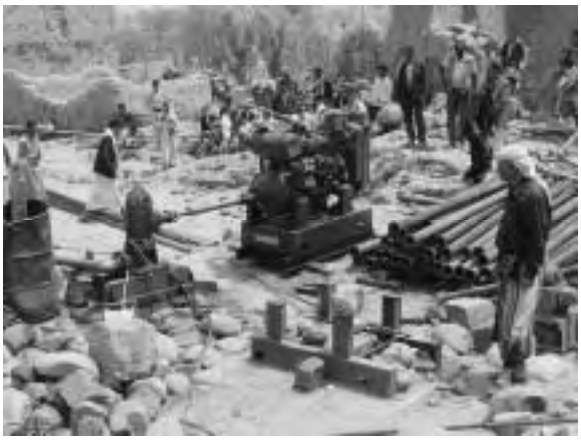
Latitude N	Longitude E	Altitude (m)	Source Type
15^{o} 19' 44.3"	*44^{o} 28' 01.7"*	*2,619*	*Private well*

EC (mS/m)	pH	Temp. (^{o}C)	Remarks
50.9	*9.30*	*42.7*	

12.2 Inventory of Water Sources – Sana'a

Site Code	Site Name	District	Governorate
S-14	*Al Ghail*	*Nehm*	*Sana'a*
Research Item	*1 pumping test, 2 water samplings for quality analysis*		

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
S-14	*Existing projected deep well*	**Code:**	*S-14*	**Code:**	*S-14*



Latitude N	Longitude E	Altitude (m)	Present Condition
15° 38' 46.4"	*44° 29' 21.4"*	*2,117*	*Unused*

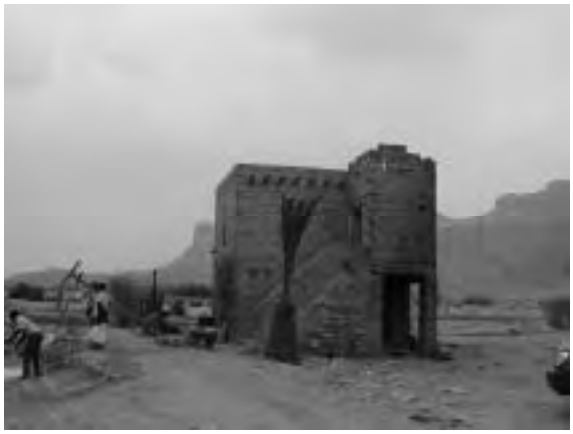
Year Const.	Depth (m)	Casing Dia. (inch)	Screen
1985	*185 (177)*	*8*	

Aquifer / Geological description	Static Water Level (G.L.-m)	Drawdown (m)	Discharge (L/sec)	Specific Capacity (L/s/m)
		---	---	---

EC (mS/m)	pH	Temp. (°C)	Remarks
133.2	*7.79*	*28.3*	*Pumping test canceled (well collapsed?)*

12.2 Inventory of Water Sources – Sana'a

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
S-14/2	*Other Water Source*	**Code:**	---	**Code:**	*S-14/2*



Latitude N	Longitude E	Altitude (m)	Source Type
15^{o} 38' 00.8"	*44^{o} 25' 22.3"*	*2,034*	*Vendor*
EC (mS/m)	**pH**	**Temp. (^{o}C)**	**Remarks**
252.0	*7.31*	*27.7*	

12.2 Inventory of Water Sources - Dahmar

Site Code	Site Name	District	Governorate
D-01	*Elow Al Mikhlaf*	*Jabal Al Sharq*	*Dahmar*
Research Item	*1 pumping test, 2 water samplings for quality analysis*		

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
D-01	*New projected deep well*	**Code:**	*D-01*	**Code:**	*D-01*

Latitude N	Longitude E	Altitude (m)	Present Condition
14° 48' 11.0"	*43° 51' 28.9"*	*1,799*	*Capped*

Year Const.	Depth (m)	Casing Dia. (inch)	Screen
2000	*273*	*8*	

Aquifer / Geological description	Static Water Level (G.L.-m)	Drawdown (m)	Discharge (L/sec)	Specific Capacity (L/s/m)
	184.13	*1.70*	*2.4*	*1.411*

EC (mS/m)	pH	Temp. (°C)	Remarks
89.4	*7.48*	*30.2*	

12.2 Inventory of Water Sources - Dahmar

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
D-01/2	*Other Water Source*	**Code:**	---	**Code:**	*D-01/2*

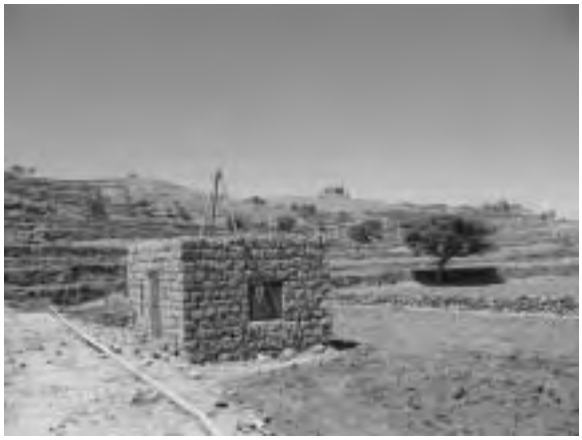
Latitude N	Longitude E	Altitude (m)	Source Type
14° 48' 05.0"	*43° 51' 30.2"*	*1,910*	*Rain water (cistern)*

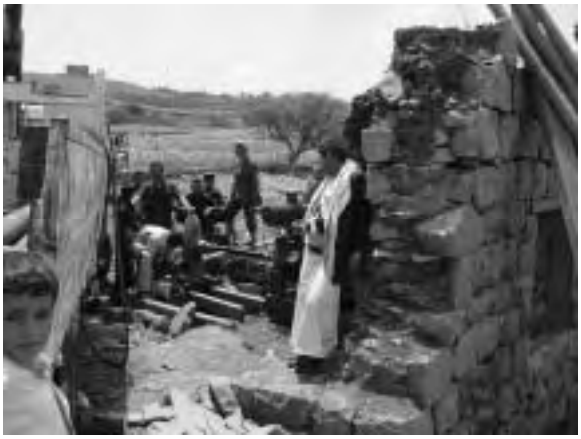
EC (mS/m)	pH	Temp. (°C)	Remarks
11.4	*9.68*	*22.4*	

12.2 Inventory of Water Sources - Dahmar

Site Code	Site Name	District	Governorate
D-02	*Hamal Bait Al Jabar*	*Jabal Al Sharq*	*Dahmar*
Research Item	*1 pumping test, 2 water samplings for quality analysis*		

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
D-02	*Existing projected deep well*	**Code:**	*D-02*	**Code:**	*D-02*





Latitude N	Longitude E	Altitude (m)	Present Condition
14° 44' 38.6"	*43° 56' 45.2"*	*2,205*	*Working vertical pump*

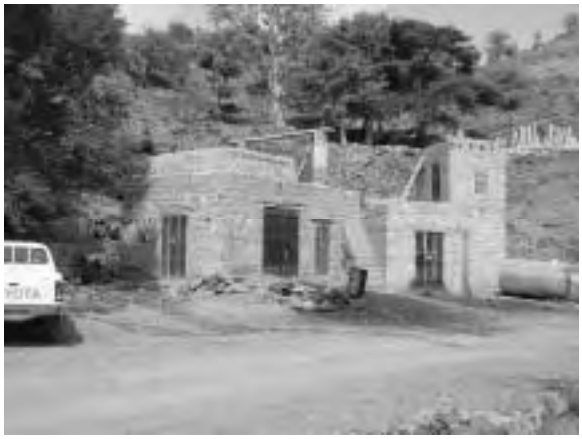
Year Const.	Depth (m)	Casing Dia. (inch)	Screen
1985	*310*	*8*	

Aquifer / Geological description	Static Water Level (G.L.-m)	Drawdown (m)	Discharge (L/sec)	Specific Capacity (L/s/m)
	185.80	*23.50*	*3.5*	*0.149*

EC (mS/m)	pH	Temp. (°C)	Remarks
50.3	*7.83*	*31.7*	

12.2 Inventory of Water Sources - Dahmar

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
D-02/2	*Other Water Source*	**Code:**	---	**Code:**	*D-02/2*



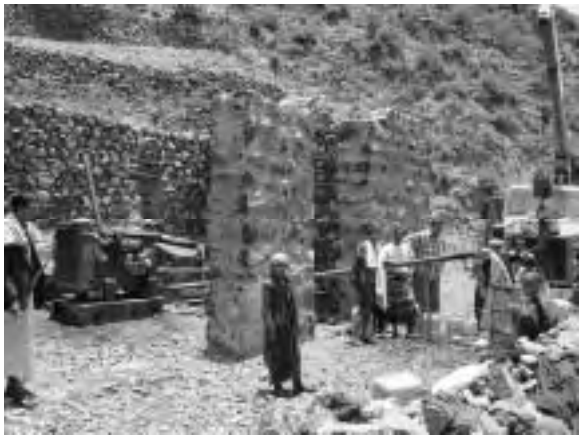
Latitude N	Longitude E	Altitude (m)	Source Type
14° 42' 02.1"	*43° 58' 18.2"*	*2,014*	*Vendor*

EC (mS/m)	pH	Temp. (°C)	Remarks
45.9	*7.68*	*28.1*	

12.2 Inventory of Water Sources - Dahmar

Site Code	Site Name	District	Governorate
D-03	*Hegrat Al A'asham*	*Jabal Al Sharq*	*Dahmar*
Research Item	*1 pumping test, 2 water samplings for quality analysis*		

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
D-03	*New projected deep well*	**Code:**	*D-03*	**Code:**	*D-03*



Latitude N	Longitude E	Altitude (m)	Present Condition
14° 42' 51.6"	*43° 59' 53.7"*	*2,041*	*Capped*

Year Const.	Depth (m)	Casing Dia. (inch)	Screen
1999	*320*	*8*	

Aquifer / Geological description	Static Water Level (G.L.-m)	Drawdown (m)	Discharge (L/sec)	Specific Capacity (L/s/m)
	163.05	*20.90*	*5.0*	*0.239*

EC (mS/m)	pH	Temp. (°C)	Remarks
44.5	*7.12*	*29.2*	

12.2 Inventory of Water Sources - Dahmar

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
D-03/2	*Other Water Source*	**Code:**	---	**Code:**	*D-03/2*

Latitude N	Longitude E	Altitude (m)	Source Type
14° 42' 59.7"	*43° 59' 57.2"*	*2,047*	*Spring*

EC (mS/m)	pH	Temp. (°C)	Remarks
41.4	*7.48*	*21.7*	*Some times use D-02/2*

12.2 Inventory of Water Sources - Dahmar

Site Code	Site Name	District	Governorate
D-04	*Al Kuob*	*Duran*	*Dahmar*
Research Item	*1 pumping test, 2 water samplings for quality analysis*		

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
D-04	*New projected deep well*	**Code:**	*D-04*	**Code:**	*D-04*

Latitude N	Longitude E	Altitude (m)	Present Condition
14° 45' 25.7"	*44° 10' 53.3"*	*2,237*	*Capped*

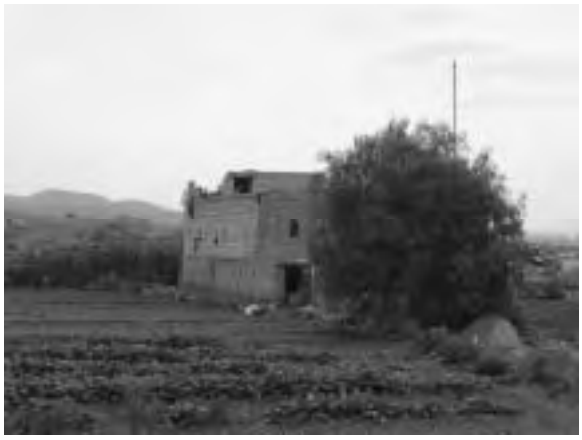
Year Const.	Depth (m)	Casing Dia. (inch)	Screen
1999	*152*	*8*	

Aquifer / Geological description	Static Water Level (G.L.-m)	Drawdown (m)	Discharge (L/sec)	Specific Capacity (L/s/m)

EC (mS/m)	pH	Temp. (°C)	Remarks
45.5	*7.23*	*28.6*	

12.2 Inventory of Water Sources - Dahmar

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
D-04/2	*Other Water Source*	**Code:**	---	**Code:**	*D-04/2*



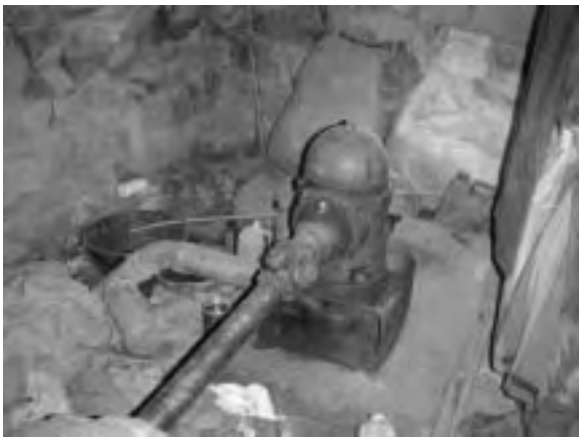
Latitude N	Longitude E	Altitude (m)	Source Type
14° 46' 07.2"	*44° 11' 34.0"*	*2,149*	*Vendor*

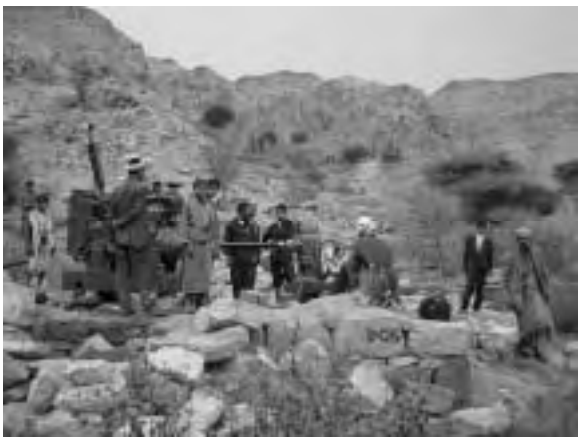
EC (mS/m)	pH	Temp. (°C)	Remarks
48.6	*7.99*	*27.8*	

12.2 Inventory of Water Sources - Dahmar

Site Code	Site Name	District	Governorate
D-05	*Mayfa'at Yaer*	*Ans*	*Dahmar*
Research Item	*1 pumping test, 1 water sampling for quality analysis*		

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
D-05	*Existing projected deep well*	**Code:**	*D-05*	**Code:**	*D-05*





Latitude N	Longitude E	Altitude (m)	Present Condition
14° 33' 39.9"	*44° 14' 12.3"*	*2,176*	*Working vertical pump*

Year Const.	Depth (m)	Casing Dia. (inch)	Screen
1984	*127*	*8*	

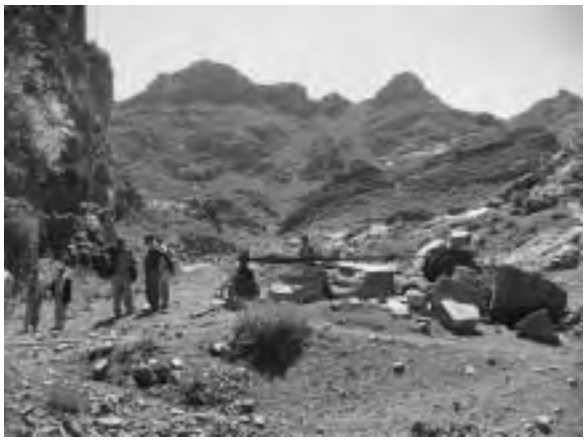
Aquifer / Geological description	Static Water Level (G.L.-m)	Drawdown (m)	Discharge (L/sec)	Specific Capacity (L/s/m)
	59.56	*3.22*	*2.6*	*0.807*

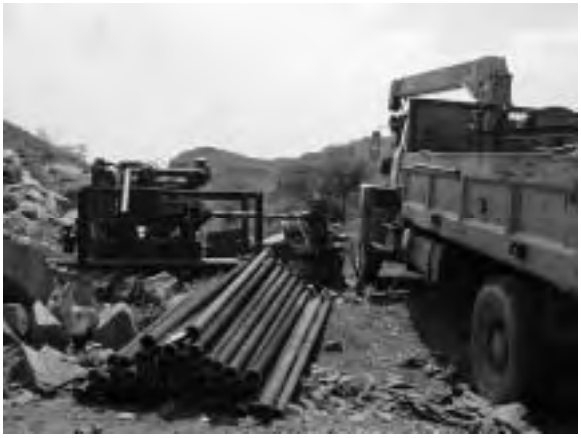
EC (mS/m)	pH	Temp. (°C)	Remarks
53.2	*7.28*	*30.4*	

12.2 Inventory of Water Sources - Dahmar

Site Code	Site Name	District	Governorate
D-06	*Wardasan*	*Ans*	*Dahmar*
Research Item	*1 pumping test, 2 water samplings for quality analysis*		

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
D-06	*Existing projected deep well*	**Code:**	*D-06*	**Code:**	*D-06*





Latitude N	Longitude E	Altitude (m)	Present Condition
14° 24' 32.5"	*44° 20' 36.4"*	*2,118*	*Working vertical pump*

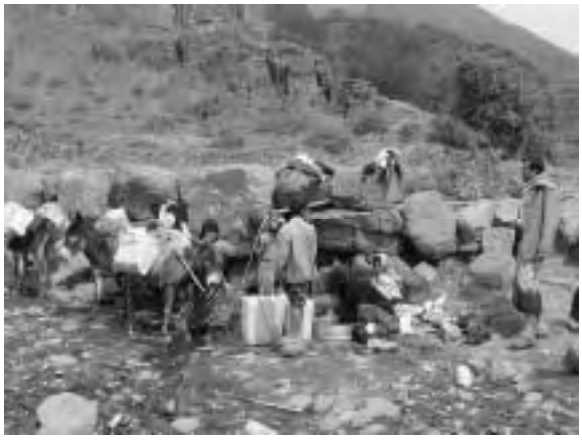
Year Const.	Depth (m)	Casing Dia. (inch)	Screen
1998	*220*	*8*	

Aquifer / Geological description	Static Water Level (G.L.-m)	Drawdown (m)	Discharge (L/sec)	Specific Capacity (L/s/m)
	89.65	*42.25*	*0.5*	*0.012*

EC (mS/m)	pH	Temp. (°C)	Remarks
143.1	*8.18*	*32.5*	

12.2 Inventory of Water Sources - Dahmar

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
D-06/2	*Other Water Source*	**Code:**	---	**Code:**	*D-06/2*



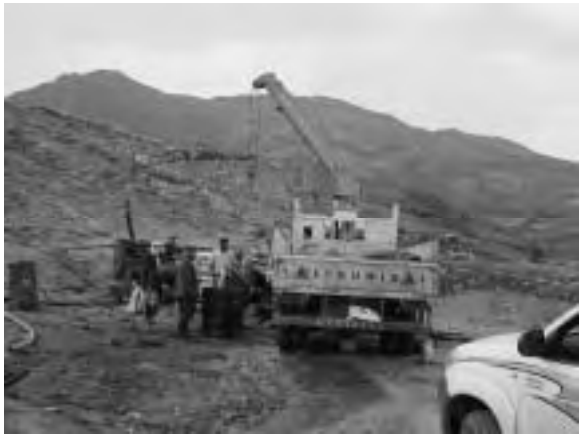
Latitude N	Longitude E	Altitude (m)	Source Type
14° 24' 29.9"	*44° 20' 59.7"*	*2,122*	*Private well*

EC (mS/m)	pH	Temp. (°C)	Remarks
183.0	*8.30*	*42.1*	

12.2 Inventory of Water Sources - Dahmar

Site Code	Site Name	District	Governorate
D-07	*Al Asakera*	*Mayfa'a*	*Dahmar*
Research Item	*1 pumping test, 2 water samplings for quality analysis*		

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
D-07	*New projected deep well*	**Code:**	*D-07*	**Code:**	*D-07*



Latitude N	Longitude E	Altitude (m)	Present Condition
14° 32' 24.8"	*44° 40' 01.7"*	*2,589*	*Capped*

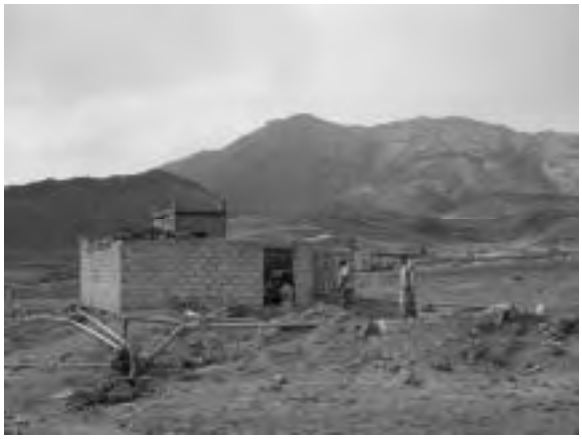
Year Const.	Depth (m)	Casing Dia. (inch)	Screen
1999	*304*	*8*	

Aquifer / Geological description	Static Water Level (G.L.-m)	Drawdown (m)	Discharge (L/sec)	Specific Capacity (L/s/m)
	193.58	*1.55*	*4.5*	*2.903*

EC (mS/m)	pH	Temp. (°C)	Remarks
100.4	*7.07*	*37.7*	

12.2 Inventory of Water Sources - Dahmar

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
D-07/2	*Other Water Source*	**Code:**	---	**Code:**	*D-07/2*



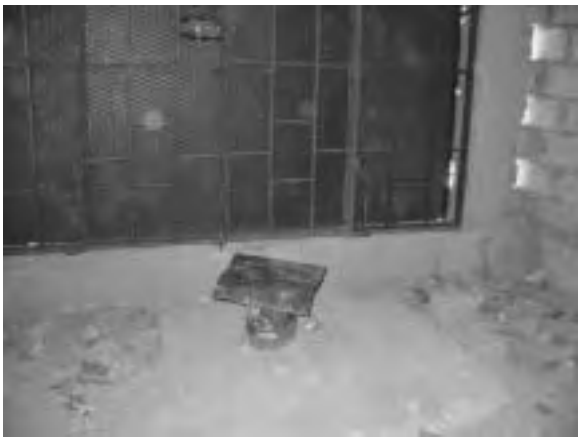
Latitude N	Longitude E	Altitude (m)	Source Type
14° 32' 18.3"	*44° 40' 02.9"*	*2,582*	*Private well*

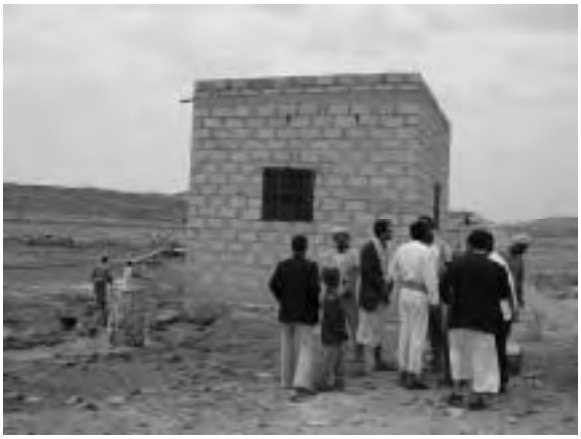
EC (mS/m)	pH	Temp. (°C)	Remarks
95.9	*7.07*	*34.1*	*Sample from booster tank*

12.2 Inventory of Water Sources - Dahmar

Site Code	Site Name	District	Governorate
D-08	*Masneat Abdul Aziz*	*Mayfa'a*	*Dahmar*
Research Item	*1 pumping test, 2 water samplings for quality analysis*		

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
D-08	*New projected deep well*	**Code:**	*D-08*	**Code:**	*D-08*





Latitude N	Longitude E	Altitude (m)	Present Condition
14° 26' 49.2"	*44° 31' 51.8"*	*2,508*	*Capped*

Year Const.	Depth (m)	Casing Dia. (inch)	Screen
2004	*268*	*8*	

Aquifer / Geological description	Static Water Level (G.L.-m)	Drawdown (m)	Discharge (L/sec)	Specific Capacity (L/s/m)
	61.98	*61.70*	*4.5*	*0.073*

EC (mS/m)	pH	Temp. (°C)	Remarks
34.2	*8.25*	*33.5*	

12.2 Inventory of Water Sources - Dahmar

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
D-08/2	*Other Water Source*	**Code:**	---	**Code:**	*D-08/2*

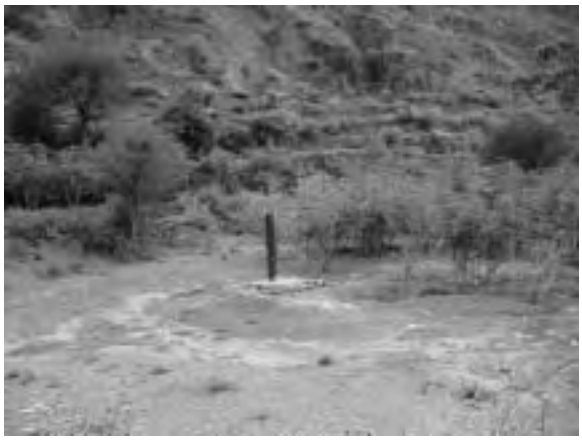
No photo	No photo

Latitude N	Longitude E	Altitude (m)	Source Type
14° 27' 56.1"	*44° 32' 13.6"*	*2,468*	*Vendor*
EC (mS/m)	**pH**	**Temp. (°C)**	**Remarks**
39.8	*8.21*	*30.6*	

12.2 Inventory of Water Sources - Ibb

Site Code	Site Name	District	Governorate
I-01	*Asfal Bani Saba*	*Al Qafr*	*Ibb*
Research Item	*1 pumping test, 2 water samplings for quality analysis*		

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
I-01	*New projected deep well*	**Code:**	*I-01*	**Code:**	*I-01*



Latitude N	Longitude E	Altitude (m)	Present Condition
14° 13' 43.8"	*44° 14' 41.8"*	*1,812*	*Capped*

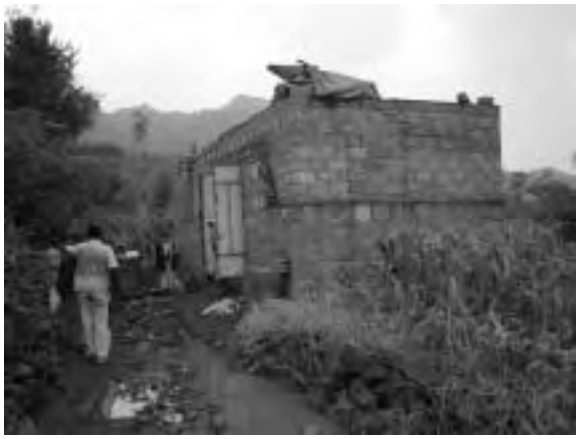
Year Const.	Depth (m)	Casing Dia. (inch)	Screen
2005	*305*	*8-5/8*	

Aquifer / Geological description	Static Water Level (G.L.-m)	Drawdown (m)	Discharge (L/sec)	Specific Capacity (L/s/m)
	107.40		*4.5*	

EC (mS/m)	pH	Temp. (°C)	Remarks
43.4	*8.40*	*30.1*	

12.2 Inventory of Water Sources - Ibb

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
I-01/2	*Other Water Source*	**Code:**	---	**Code:**	*I-01/2*



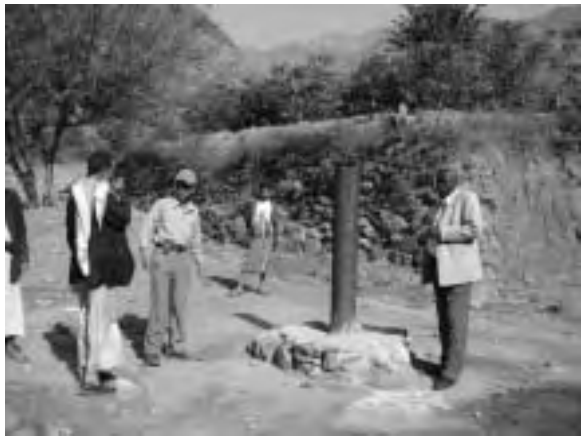
Latitude N	Longitude E	Altitude (m)	Source Type
14° 13' 36.5"	*44° 14' 22.5"*	*1,768*	*Private well*

EC (mS/m)	pH	Temp. (°C)	Remarks
38.4	*9.41*	*32.0*	*Same 「other water source」 for site I-02*

12.2 Inventory of Water Sources - Ibb

Site Code	Site Name	District	Governorate
I-02	*Al Sana*	*Al Makhader*	*Ibb*
Research Item	*1 pumping test, 1 water sampling for quality analysis*		

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
I-02	*New projected deep well*	**Code:**	*I-02*	**Code:**	*I-02*



Latitude N	Longitude E	Altitude (m)	Present Condition
14° 13' 36.9"	*44° 14' 01.5"*	*1,741*	*Capped*

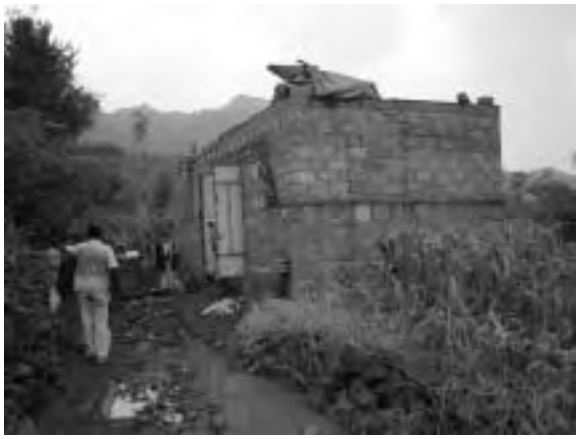
Year Const.	Depth (m)	Casing Dia. (inch)	Screen
2005	*272*	*8-5/8*	

Aquifer / Geological description	Static Water Level (G.L.-m)	Drawdown (m)	Discharge (L/sec)	Specific Capacity (L/s/m)
	36.10		*3.9*	

EC (mS/m)	pH	Temp. (°C)	Remarks
49.6	*7.99*	*31.2*	

12.2 Inventory of Water Sources - Ibb

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
I-02/2	*Other Water Source*	**Code:**	---	**Code:**	*I-02/2*



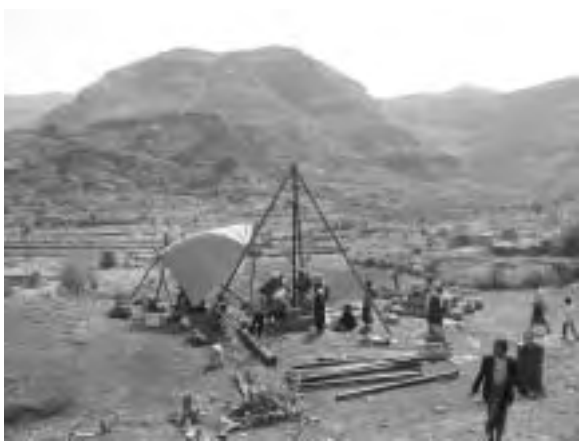
Latitude N	Longitude E	Altitude (m)	Source Type
14° 13' 36.5"	*44° 14' 22.5"*	*1,768*	*Private well*

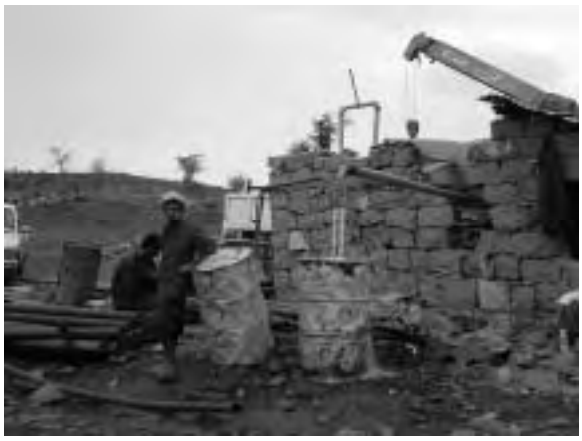
EC (mS/m)	pH	Temp. (°C)	Remarks
38.4	*9.41*	*32.0*	*Same「other water source」 for site I-01*

12.2 Inventory of Water Sources - Ibb

Site Code	Site Name	District	Governorate
I-03	*Mamasa Al Marqab*	*Al Makhader*	*Ibb*
Research Item	*1 pumping test, 1 water sampling for quality analysis*		

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
I-03	*New projected deep well*	**Code:**	*I-03*	**Code:**	*I-03*





Latitude N	Longitude E	Altitude (m)	Present Condition
14° 11' 15.3"	*44° 12' 09.1"*	*1,648*	*Working vertical pump (private, temporary)*

Year Const.	Depth (m)	Casing Dia. (inch)	Screen
2005	*78*	*8*	

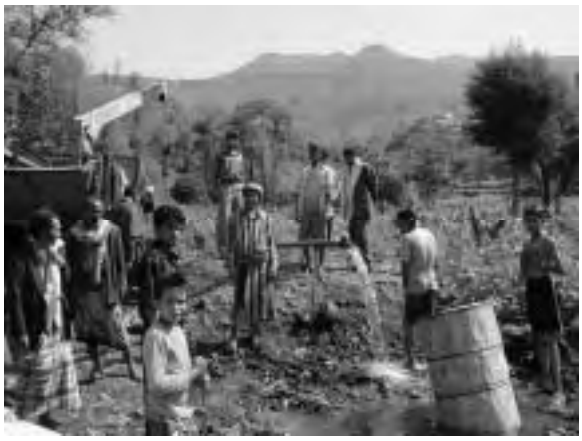
Aquifer / Geological description	Static Water Level (G.L.-m)	Drawdown (m)	Discharge (L/sec)	Specific Capacity (L/s/m)
	47.78	*6.57*	*1.6*	*0.243*

EC (mS/m)	pH	Temp. (°C)	Remarks
69.4	*7.12*	*30.6*	

12.2 Inventory of Water Sources - Ibb

Site Code	Site Name	District	Governorate
I-04	*Al Jahlah & Al Meshraq*	*Ibb*	*Ibb*
Research Item	*1 pumping test, 2 water samplings for quality analysis*		

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
I-04	*New projected deep well*	**Code:**	*I-04*	**Code:**	*I-04*



Latitude N	Longitude E	Altitude (m)	Present Condition
13° 55' 44.8"	*44° 14' 53.4"*	*1,803*	*Capped*

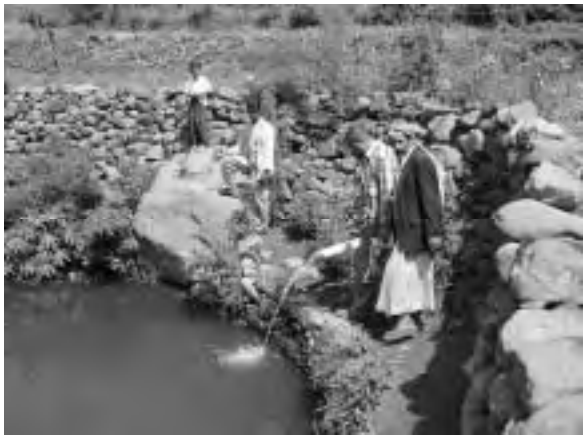
Year Const.	Depth (m)	Casing Dia. (inch)	Screen
2005	*305*	*8-5/8*	

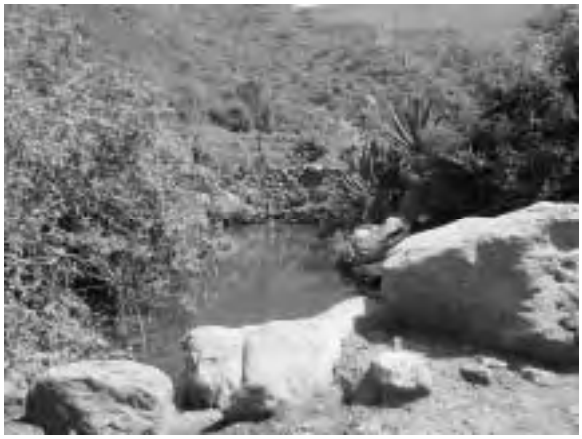
Aquifer / Geological description	Static Water Level (G.L.-m)	Drawdown (m)	Discharge (L/sec)	Specific Capacity (L/s/m)
	14.85	*95.30*	*4.1*	*0.043*

EC (mS/m)	pH	Temp. (°C)	Remarks
64.6	*8.32*	*27.0*	

12.2 Inventory of Water Sources - Ibb

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
I-04/2	*Other Water Source*	**Code:**	---	**Code:**	*I-04/2*





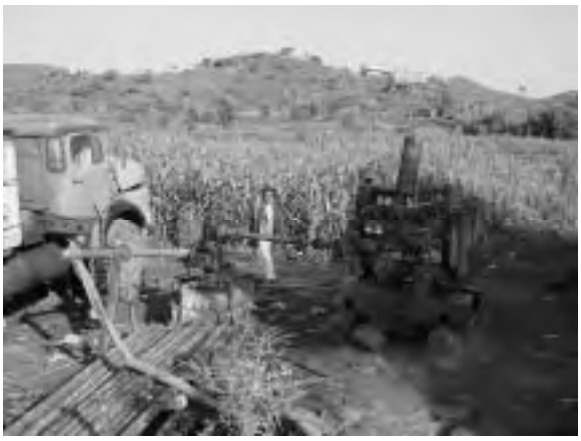
Latitude N	Longitude E	Altitude (m)	Source Type
13^{o} 56' 07.5"	*44^{o} 14' 55.5"*	*1,843*	*Spring*

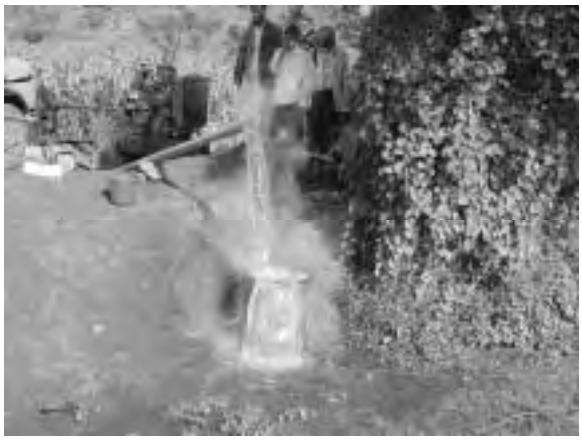
EC (mS/m)	pH	Temp. (^{o}C)	Remarks
83.6	*7.39*	*21.4*	

12.2 Inventory of Water Sources - Taiz

Site Code	Site Name	District	Governorate
T-01	*Al Muayteeb*	*Mawiyah*	*Taiz*
Research Item	*1 pumping test, 2 water samplings for quality analysis*		

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
T-01	*New projected deep well*	**Code:**	*T-01*	**Code:**	*T-01*





Latitude N	Longitude E	Altitude (m)	Present Condition
13° 39' 32.5"	*44° 13' 12.6"*	*1,291*	*Capped*

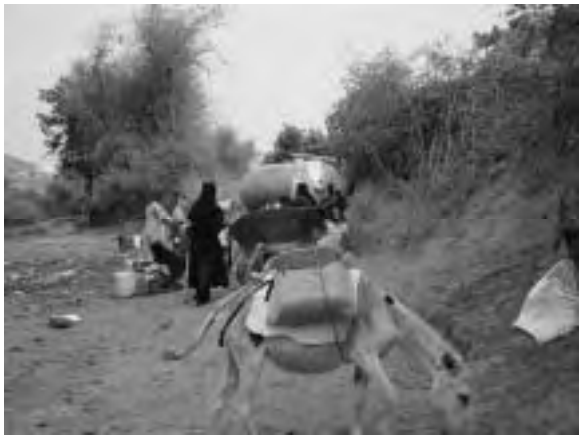
Year Const.	Depth (m)	Casing Dia. (inch)	Screen
2005	*300*	*8*	*56-68, 164-?,194-248*

Aquifer / Geological description	Static Water Level (G.L.-m)	Drawdown (m)	Discharge (L/sec)	Specific Capacity (L/s/m)

EC (mS/m)	pH	Temp. (°C)	Remarks
252.0	*7.22*	*61.1*	

12.2 Inventory of Water Sources - Taiz

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
T-01/3	*Other Water Source*	**Code:**	---	**Code:**	*T-01/3*



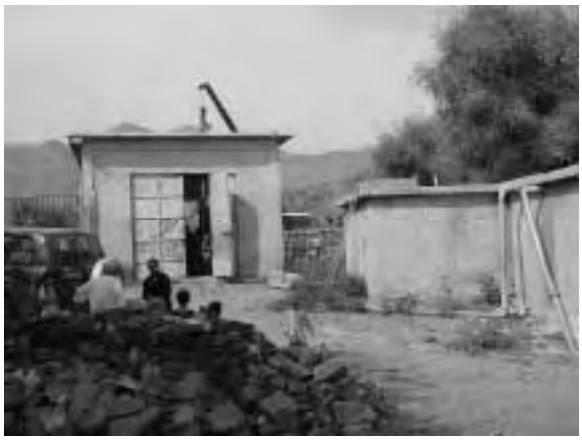
Latitude N	Longitude E	Altitude (m)	Source Type
13^{o} 39' 47.5"	*44^{o} 13' 04.1"*	*1,300*	*Private well*

EC (mS/m)	pH	Temp. (^{o}C)	Remarks
235	*7.30*	*55.0*	

12.2 Inventory of Water Sources - Taiz

Site Code	Site Name	District	Governorate
T-02	*Bani Al Suror*	*Al Ma'afer*	*Taiz*
Research Item	*3 pumping tests, 4 water samplings for quality analysis*		

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
T-02/1	*Existing projected deep well (Bir 1)*	**Code:**	*T-02/1*	**Code:**	*T-02/1*



Latitude N	Longitude E	Altitude (m)	Present Condition
13° 22' 51.9"	*43° 58' 00.7"*	*1,271*	*Working submersible pump*

Year Const.	Depth (m)	Casing Dia. (inch)	Screen
1982	*230*		

Aquifer / Geological description	Static Water Level (G.L.-m)	Drawdown (m)	Discharge (L/sec)	Specific Capacity (L/s/m)
	183.88	*21.11*	*2.6*	*0.123*

EC (mS/m)	pH	Temp. (°C)	Remarks
113.3	*7.05*	*37.5*	

12.2 Inventory of Water Sources - Taiz

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
T-02/2	*Existing projected deep well (Bir 2)*	**Code:**	---	**Code:**	*T-02/2*

Latitude N	Longitude E	Altitude (m)	Source Type
13^{o} 22' 34.8"	*43^{o} 57' 39.2"*	*1,250*	*Deep well*
EC (mS/m)	**pH**	**Temp. (^{o}C)**	**Remarks**
100.2	*7.19*	*28.8*	*Seasonal*

12.2 Inventory of Water Sources - Taiz

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
T-02/3	*Existing projected deep well (Bir 3)*	**Code:**	*T-02/3*	**Code:**	*T-02/3*

Latitude N	Longitude E	Altitude (m)	Present Condition
13° 23' 52.6"	*43° 58' 25.6"*	*1,209*	*Working submersible pump*

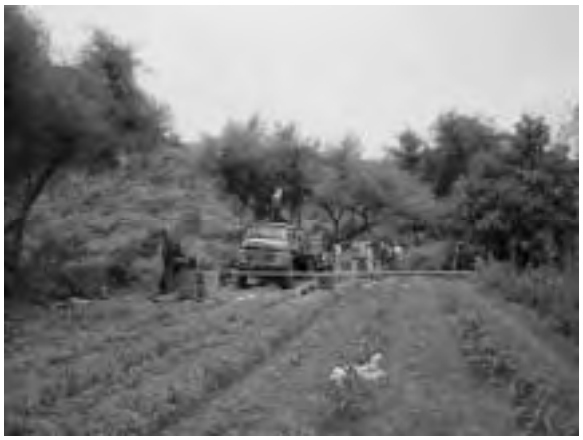
Year Const.	Depth (m)	Casing Dia. (inch)	Screen
2001	*251*		

Aquifer / Geological description	Static Water Level (G.L.-m)	Drawdown (m)	Discharge (L/sec)	Specific Capacity (L/s/m)
	117.62	*21.11*	*2.6*	*0.123*

EC (mS/m)	pH	Temp. (°C)	Remarks
122.4	*7.42*	*39.2*	

12.2 Inventory of Water Sources - Taiz

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
T-02/4	*New projected deep well (Bir 4)*	**Code:**	*T-02/4*	**Code:**	*T-02/4*



Latitude N	Longitude E	Altitude (m)	Present Condition
13° 21' 52.2"	*43° 58' 24.2"*	*1,226*	*Capped*

Year Const.	Depth (m)	Casing Dia. (inch)	Screen
1998	*190*	*8*	

Aquifer / Geological description	Static Water Level (G.L.-m)	Drawdown (m)	Discharge (L/sec)	Specific Capacity (L/s/m)

EC (mS/m)	pH	Temp. (°C)	Remarks
98.8	*6.96*	*29.5*	

12.2 Inventory of Water Sources - Taiz

Site Code	Site Name	District	Governorate
T-03	*Sheb Humran*	*Al Ma'afer*	*Taiz*
Research Item	*2 pumping tests, 3 water samplings for quality analysis*		

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
T-03/1	*New projected deep well (Al Jah (1))*	**Code:**	*T-03/1*	**Code:**	*T-03/1*

Latitude N	Longitude E	Altitude (m)	Present Condition
13° 20' 50.1"	*44° 02' 55.2"*	*1,257*	*Capped*

Year Const.	Depth (m)	Casing Dia. (inch)	Screen
2005	*400*	*12*	

Aquifer / Geological description	Static Water Level (G.L.-m)	Drawdown (m)	Discharge (L/sec)	Specific Capacity (L/s/m)
	22.22	*22.29*	*4.0*	*0.179*

EC (mS/m)	pH	Temp. (°C)	Remarks
102.5	*6.97*	*27.0*	

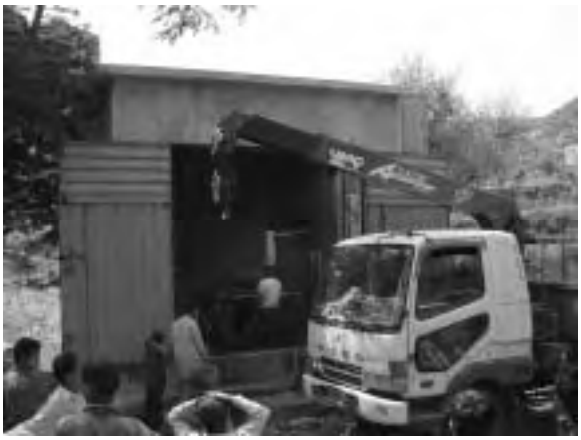
12.2 Inventory of Water Sources - Taiz

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
T-03/2	*Existing projected deep well (Al Mahas (2))*	**Code:**	---	**Code:**	*T-03/2*

Latitude N	Longitude E	Altitude (m)	Source Type
13^{o} 20' 56.7"	*44^{o} 02' 53.6"*	*1,274*	*Deep well*
EC (mS/m)	**pH**	**Temp. (^{o}C)**	**Remarks**
112.1	*7.14*	*28.5*	*Seasonal*

12.2 Inventory of Water Sources - Taiz

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
T-03/4	*Existing projected deep well (Al Meashaar(4))*	**Code:**	*T-03/4*	**Code:**	*T-03/4*



Latitude N	Longitude E	Altitude (m)	Present Condition
13° 23' 54.8"	*44° 01' 07.0"*	*1,366*	*Working submersible pump*

Year Const.	Depth (m)	Casing Dia. (inch)	Screen
1998	*260*		

Aquifer / Geological description	Static Water Level (G.L.-m)	Drawdown (m)	Discharge (L/sec)	Specific Capacity (L/s/m)
	24.19	*4.02*	*4.2*	*1.045*

EC (mS/m)	pH	Temp. (°C)	Remarks
93.9	*7.37*	*26.3*	

12.2 Inventory of Water Sources - Taiz

Site Code	Site Name	District	Governorate
T-04	*Yafoq Bani Hamad*	*Al Mawaset*	*Taiz*
Research Item	*1 pumping test, 1 water sampling for quality analysis*		

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
T-04	*Existing projected deep well*	**Code:**	*T-04*	**Code:**	*T-04*

Latitude N	Longitude E	Altitude (m)	Present Condition
13° 18' 46.5"	*44° 05' 46.8"*	*1,381*	*Working submersible pump*

Year Const.	Depth (m)	Casing Dia. (inch)	Screen
1982	*220*	*8*	

Aquifer / Geological description	Static Water Level (G.L.-m)	Drawdown (m)	Discharge (L/sec)	Specific Capacity (L/s/m)
	124.10	*1.91*	*3.0*	*1.571*

EC (mS/m)	pH	Temp. (°C)	Remarks
87.7	*7.27*	*28.1*	

12.2 Inventory of Water Sources - Taiz

Site Code	Site Name	District	Governorate
T-05	*Al Azaez*	*Al Shamayaten*	*Taiz*
Research Item	*1 pumping test, 3 water samplings for quality analysis*		

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
T-05/1	*Existing projected deep well (Marda'a Alhomary(1))*	**Code:**	*T-05/1*	**Code:**	*T-05/1*

No photo

Latitude N	Longitude E	Altitude (m)	Present Condition
13° 13' 34.5"	*44° 02' 17.8"*	*1,377*	*Unused*

Year Const.	Depth (m)	Casing Dia. (inch)	Screen
1985	*120*	*8-5/8*	

Aquifer / Geological description	Static Water Level (G.L.-m)	Drawdown (m)	Discharge (L/sec)	Specific Capacity (L/s/m)
	8.20	*45.19*	*2.0*	*0.044*

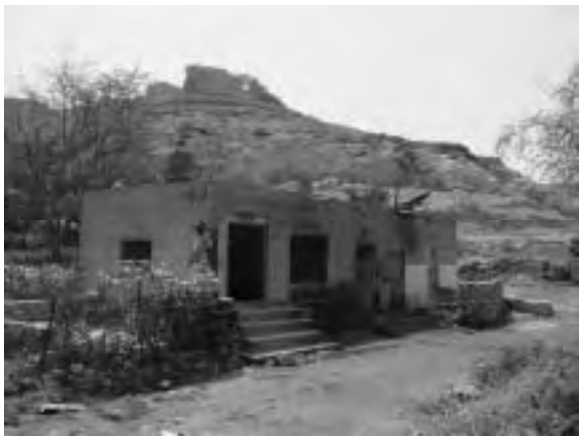
EC (mS/m)	pH	Temp. (°C)	Remarks
167.5	*7.03*	*27.0*	

12.2 Inventory of Water Sources - Taiz

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
T-05/2	*Existing projected deep well (Sohyab (2))*	**Code:**	---	**Code:**	*T-05/2*

Latitude N	Longitude E	Altitude (m)	Source Type
13° 13' 27.2"	*44° 02' 28.4"*	*1,379*	*Deep well*
EC (mS/m)	**pH**	**Temp. (°C)**	**Remarks**
82.0	*6.90*	*28.1*	

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
T-05/4	*Spring (Al Hagareen)*	**Code:**	---	**Code:**	*T-05/4*

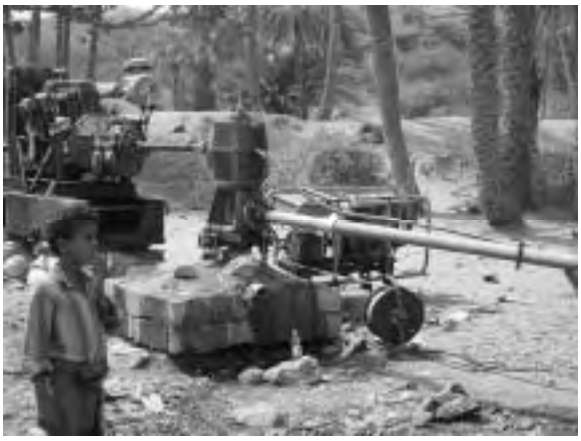


Latitude N	Longitude E	Altitude (m)	Source Type
13° 13' 28.9"	*44° 04' 42.7"*	*1,575*	*Spring*
EC (mS/m)	**pH**	**Temp. (°C)**	**Remarks**
109.3	*7.12*	*24.3*	*Tank: W=3.8xL=14xH=4-7m=327m^3. Q=18.2m^3/h =5.04l/s (July)*

12.2 Inventory of Water Sources - Taiz

Site Code	Site Name	District	Governorate
T-06	*Al Khunha*	*Al Wazieyah*	*Taiz*
Research Item	*1 pumping test, 2 water samplings for quality analysis*		

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
T-06	*New projected deep well*	**Code:**	*T-06*	**Code:**	*T-06*



Latitude N	Longitude E	Altitude (m)	Present Condition
13° 06' 21.0"	*43° 45' 03.9"*	*539*	*Capped*

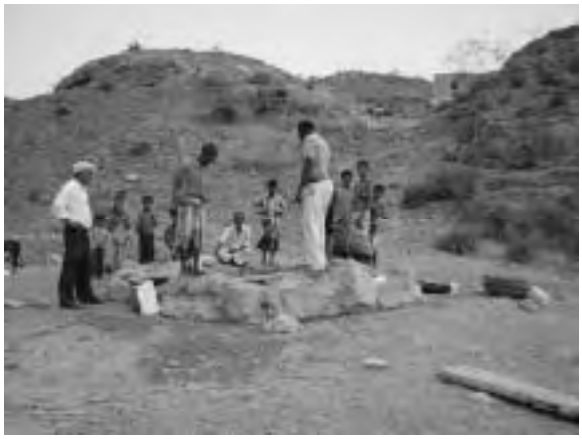
Year Const.	Depth (m)	Casing Dia. (inch)	Screen
2004	*200*	*8*	*50-56, 83-98, 116-188*

Aquifer / Geological description	Static Water Level (G.L.-m)	Drawdown (m)	Discharge (L/sec)	Specific Capacity (L/s/m)
	-0.53	*5.67*	*8.8*	*1.552*

EC (mS/m)	pH	Temp. (°C)	Remarks
123.3	*7.21*	*39.5*	

12.2 Inventory of Water Sources - Taiz

Source Code	Target Water Source	Research Item			
		Pumping Test		Water Sampling	
T-06/2	*Other Water Source*	**Code:**	---	**Code:**	*T-06/2*



Latitude N	Longitude E	Altitude (m)	Source Type
13^{o} 04' 46.8"	*43^{o} 44' 48.5"*	*492*	*Dug well*

EC (mS/m)	pH	Temp. (^{o}C)	Remarks
140.0	*7.74*	*28.7*	

12.3 Village Profile of Sites in Al Mahweet Governorate

SITE IDENTIFICATION PANEL

No.	Item	Description				
	Code No.	A-01				
	Site Name	Al Sha'afel Al Olyah & Al Sufla				
	Sub-District (Uzlat)	Al Sha'afel				
	District	Al Khabt				
	Governorate	Al Mahweet				
	Coordinates	Latitude	Longitude			
	Coordinates (Measured Location)					
	Annual precipitation (rainfall)	380 mm				
	Population (2006)	9,405				
	Population Forecast(2016)	12,481				
	No. of Village (Qariah) in Total	22				
	No. of Village (Qariah) to be served	22				
	Village (Qariah) in the Community	Name	Population	Household	Coordinate (Lat / Lon)	
		Suda	1,500	280		
		Al Galia	350	75		
		Al Theara'h	600	90		
		Al Khumash	850	110		
		Al Luhuf Al Ala	1,400	275		
		Al Aukash	350	70		
		Shahyiah	300	60		
		Deer Al Sabeq	900	150		
		Al Aurgain	355	73		
		Al Khumeeri	320	60		
		Bab Al Sha'ab	200	40		
		Wadi Al Mudeerah	250	55		
		Al Madraj	100	25		
		Al Khatmah	280	55		
		Al Dahla	30	5		
		Dhabian	210	35		
		Habeel Al Jone	260	55		
		Al Elaq	150	30		
		Al Areedh	250	55		
		Al Howyiah	200	50		
		Al Madafen	300	50		
		Maqsaab	250	40		

EXISTING WATER SUPPLY SCHEME PANEL

No.	Item	Description				
	Functioning	No existing				
	Components of Existing Water Supply Scheme	Component	Specification	Condition	Year	Fund
		Pump for Deep Well				
		Eng./Gen. for Deep Well				
		Pump House for Deep We				
		Pump for Booster				
		Eng./Gen. for Booster				
		Pump House for Booster				
		Booster Tank				
		Distribution Tank				
		Pumping Main				
		Distribution Main				
		Public Tapstand				
		House Connection				
	Observations					

WATER SOURCE PANEL

No.	Item	Description		
	【Borehole Code】			
	Grid (UTM)	North 1709668	East 317540	
	Grid (Lat/Lon)	Lat. N 15°27' 27.0"	Lon. E 43°17' 58.1"	
	Present Condition (Pump Type)	Capped		
	Elevation (m)	355 m		
	Aquifer/Geological Description			
	Year of Construction	2005		
	Fund	Local Council		
	Depth (m)	192 m		
	Casing Diameter (inch)	8 inch		
	Screen			
	Static Water Level (G.L.-m)	27 m		
	Dynamic Water Level (G.L.-m)	177 m		
	Drawdown (m)	150 m		
	Discharge	70 g/min	4.4 L/sec	
	Specific Capacity	0.035 L/s/m		
	EC (mS/m)	180.9 mS/m		
	pH	6.61		
	Temperature ('C)	34.7		
	Remarks			

12.3 Village Profile of Sites in Al Mahweet Governorate

WATER SUPPLY PLANNING PANEL				
No.	Item	Description		
	【Design Parameter】			
	No. of Villages in Total	22		
	No. of Villages to be Covered	22		
	Current Population (2005)	9,405		
	Design Population (2025)	12,481		
	Design Water Supply Rate	40 L/c/d	499 m^3/day	
	Type of Work Required	New construction		
	Required Facilities	Component	To be Constructed by	Notes
		Pump for Deep Well	Donor	New
		Eng./Gen. for Deep Well	Donor	New
		Pump House for Deep We	Donor/Village	New
		Pump for Booster	Donor	New x 2
		Eng./Gen. for Booster	Donor	New x 2
		Pump House for Booster	Donor/Village	New x 2
		Booster Tank	Donor	New x 2
		Distribution Tank	Donor	New
		Pumping Main	Donor	New
		Distribution Main	Donor	New
		Public Tapstand	Donor	New (for mosque, school and clinic only
		House Connection	Village	
	Accessibility	End of lower village accessible through paved road. Upper village accessiblity is possible through dirt track.		
	Security	No problem		
	Observation			

OPERATION AND MAINTENANCE PANEL		
No.	Item	Description
	No. of Village Head (Sheikh)	
	No. of Tribe	
	Observation in Current Supply Scheme	
	Mode of Ownership	
	Mode of Management Entity	
	Organizational Management	
	Technical Operation and Maintenance	
	Financial Management and Transparency	
	Stakeholder Involvement / Responsibility Sharing	
	Community Contribution	
	Community Contracting-Out	
	Conflict Resolution	
	Pro-Gender and Pro-Poor	
	Remarks	

12.3 Village Profile of Sites in Al Mahweet Governorate

SITE IDENTIFICATION PANEL						
No.	Item	Description				
	Code No.	A-02				
	Site Name	Jabal Al Taraf				
	Sub-District (Uzlat)	Jabal Al Taraf				
	District	Al Mahweet				
	Governorate	Al Mahweet				
	Coordinates	Latitude	Longitude			
	Coordinates (Measured Location)					
	Annual precipitation (rainfall)	470 mm				
	Population (2006)	2,727				
	Population Forecast (2016)	3,619				
	No. of Village (Qariah) in Total	24				
	No. of Village (Qariah) to be served	9				
	Village (Qariah) in the Community	Name	Population	Household	Coordinate (Lat / Lon)	
		Al Namer	512	90		
		Al Hisn	314	51		
		Al Fayesh	152	27		
		Al Manakh	418	82		
		Al Shaqa	138	21		
		Al Souq	102	19		
		Al Mahajir	201	39		
		Mahla	514	92		
		Al Midfanah	376	65		

EXISTING WATER SUPPLY SCHEME PANEL							
No.	Item	Description					
	Functioning	Functional					
	Components of Existing Water Supply Scheme	Component	Specification		Condition	Year	Fund
		Pump for Deep Well	Vertical	CAPRARI		1999	GAREW
		Engine for Deep Well		Technodrive		1999	GAREW
		Pump House for Deep We	RC			1999	GAREW
		Pump for Booster	Horizontal	JET		1999	GAREW
		Engine for Booster		IVECO		1999	GAREW
		Pump House for Booster	RC			1999	GAREW
		Booster Tank	RC	25m3		1999	GAREW
		Distribution Tank	RC	100m3		1999	GAREW
		Pumping Main	SGP			1999	GAREW
		Distribution Main	SGP			1999	GAREW
		Public Tapstand					
		House Connection					
	Observations						

WATER SOURCE PANEL				
No.	Item	Description		
	【Borehole Code】			
	Grid (UTM)	North	East	
		1707431	339834	
	Grid (Lat/Lon)	Lat. N	Lon. E	
		15°26' 20.4"	43°30' 26.1"	
	Present Condition (Pump Type)	Working vertical pump		
	Elevation (m)	1111 m		
	Aquifer/Geological Description			
	Year of Construction	1997		
	Fund	GAREW		
	Depth (m)	165 m		
	Casing Diameter (inch)	8-5/8 inch		
	Screen			
	Static Water Level (G.L.-m)	26 m		
	Dynamic Water Level (G.L.-m)	54 m		
	Drawdown (m)	28 m		
	Discharge	70 g/min	4.4 L/sec	
	Specific Capacity	0.1577 L/s/m		
	EC (mS/m)	71 mS/m		
	pH	7.27		
	Temperature (°C)	29.1		
	Remarks			

12.3 Village Profile of Sites in Al Mahweet Governorate

WATER SUPPLY PLANNING PANEL				
No.	Item	Description		
	【Design Parameter】			
	No. of Villages in Total	24		
	No. of Villages to be Covered	9		
	Current Population (2005)	2,727		
	Design Population (2025)	3,619		
	Design Water Supply Rate	40 L/c/d	145 m^3/day	
	Type of Work Required	Rehabilitation		
	Required Facilities	Component		Notes
		Pump for Deep Well		Replace
		Eng./Gen. for Deep Well		Replace
		Pump House for Deep We		
		Pump for Booster		Replace
		Eng./Gen. for Booster		Replace
		Pump House for Booster		
		Booster Tank		Expansion
		Distribution Tank		
		Pumping Main		
		Distribution Main		Replace with larger diam., and extensic
		Public Tapstand		
		House Connections		
	Accessibility	Good, along paved road		
	Security			
	Observation			

OPERATION AND MAINTENANCE PANEL		
No.	Item	Description
	No. of Village Head (Sheikh)	?
	No. of Tribe	1
	Observation in Current Supply Scheme	Problem with pump unit is observed, changing pump head frequently because of overuse.
		Frequent replacement of pump head increases expense.
		Leakages in pipelines are observed.
		In the scheme construction, 20% of project costs are contributed by the community in the forms of labor and material (sands and stones) provision, while 80% of costs are borne by
	Mode of Ownership	Legal Ownership is vested to the community in traditional manner (Document for legal ownership is not prepared).
		Scheme was handed over to the community, but no minutes of understanding are prepared.
		Management Board is registered under Ministry of Social Affairs.
	Mode of Management Entity	General Assembly for Water management is ultimately responsible for the scheme management, while Management Board is responsible daily management of the scheme.
		General Assembly for Water management is formed by all users registered and paid for.
		Twenty eight (28) members are selected as consulting committee.
		Among Consulting Committee members, four (4) members are elected as Management
		Management Board membership is consisted of; a) Chairperson (1), b) Manager (1), c) Financial Manager (1), d) Treasurer (1).
		Management Board members elected are all teachers.
		Sheik was failed in the election of Management Board members, however, keeping good relation with the Boards.
		Board members emphasized 'democracy' in board election and management.
		Three (3) community members are appointed as Monitoring Committee
		Management Board has been registered since 1998 under Ministry of Social Affairs.
		Election of Management Board has been conducted three (3) times after the scheme
		Election of Management Board is made every after 4 years.
	Organizational Management	Constitution for Management Board has been prepared, clarifying roles and responsibilities of each community institution (Management Board, General Assembly, Consulting Committee, Monitoring Committee), terms of office, financial management procedures, etc.
		Legal status for Management Board is established, registering it under Ministry of Social
		Managerial decisions entailed expense more than YR 200,000 are made by Consulting Committee.
		Management Board is responsible for daily management and operation.
		There is one female member in the Consulting Committee.
	Technical Operation and Maintenance	Manuals for pump operation are prepared.
		Operation records are not kept at pump, while every meter at house connection is read and recorded.
		Pump is operated for four (4) hours in a day.
		Pump head units are frequently (4 times in a year) replaced, which costs every YR 100,000 – 150,000 (in the most expensive case, it costs YR 300,000)
		Costs for replacement of pump head unit are borne by the Scheme account (community).

12.3 Village Profile of Sites in Al Mahweet Governorate

Financial Management and Transparency	Water Tariff Structure:	YR 150/m3 (YR 120/m3 until November '05)		
	For the poor households, water is free up to 1-3m3/day.			
	Identification of the poor is made by the community.			
	All meters at house connection are read once in a month, and billing is made every month.			
	Water bills are sent to each household, and bills are collected by the Treasure visiting and staying village-to-village.			
	Financial book keeping is done in a accountable manner.			
	Bank account is opened.			
	Internal auditing for the scheme account is conducted.			
	Financial reports are presented in General Assembly once in a year.			
	Income in average:	YR 92,000 / month (March '05)		
	Expenditure in average:	YR 86,000 / month (March '05)		
	Expenditure Breakdown:	Salary/Allowance	YR 27,000	
		Billing Cost	YR 10,000	
		Fuel/Oil	YR 26,900	
		Maintenance	YR 30,000	
		Stationery	YR 2,500	
	Staff Salary/Allowance:	Chairperson	YR 2,000/month	
		Manager	YR 3,000/month	
		Financial Manager	YR 3,000/month	
		Meter Reader	YR 4,000/month	
		Operator	YR 13,000/month	
Stakeholder Involvement / Responsibility Sharing	No training package has been provided by other stakeholders.			
	Experienced operators are hired, who satisfy the daily operational requirements.			
Community Contribution	Cash amounted to YR 27,000,000 is collected for travel and other expenses entailed with petition to GARWSP Headquarters, each head of household (i.e. married males only) contributing YR 3,000 ~ 5,000.			
	Labor contribution was provided for trench digging for pipelines and approach road construction to the borehole point.			
	No cash contribution was made for the construction of the scheme.			
Community Contracting-Out	Yearly renewable contract arrangement is made with operators, and meter readers.			
Conflict Resolution	No tribal conflicts are mentioned.			
	Time restriction is programmed for equalization of service level in each service area.			
Pro-Gender and Pro-Poor	There is one female member in the Consulting Committee.			
	It is mentioned by male members of the Management Board that male is responsible to cope with female vision and needs in water issues.			
Remarks				

12.3 Village Profile of Sites in Al Mahweet Governorate

SITE IDENTIFICATION PANEL					
No.	Item	Description			
	Code No.	A-03			
	Site Name	Ozlat Al Jaradi			
	Sub-District (Uzlat)	Al Jaradi			
	District	AL Rujum			
	Governorate	Al Mahweet			
	Coordinates	Latitude	Longitude		
	Coordinates (Measured Location)				
	Annual precipitation (rainfall)	490 mm			
	Population (2006)	20,786			
	Population Forecast (2016)	27,584			
	No. of Village (Qariah) in Total	65			
	No. of Village (Qariah) to be served				
		Name	Population	Household	Coordinate (Lat / Lon)
		Al Aianbrash			
		Al Wessad	765	43	
		Al Muqbel	670	38	
		Al Jumaimah	282	14	
		Al Mahla	165	8	
		Al Helhal	347	20	
		Al Qa'ad	132	7	
		Shamsan Bait Rumaitha	287	25	
		Jabal Ali			
		Al Haifa	830	55	
		Bait Al Jaradi	450	38	
		Rahban	500	40	
		Bait Sulaiman	460	36	
		Bait Qattran	282	18	
		Hajar Al Ma'yen	385	28	
		Bait Al Nathari	560	46	
		Azzan	340	27	
		Bait Al Zain	174	13	
		Bait Ramtha			
		Al Alaneyiah Al Ma'ram	240	10	
		Bait Hunaina+ Al Musainea'a	270	18	
		Al Qarah	670	40	
		Thahban	870	60	
		Bait Soroum	1,150	110	
		Al Hamami (Al Rubs)	750	43	
		Shamsan Al Hamami	386	28	
		Bait Jasaar	370	36	
		Al Marsubah	650	70	
		Bait Al Murair	75	6	
		Al Maqoor	170	12	
	Village (Qariah) in the Community	Al Hajar Al Sufla	140	9	
		Bait Safoof	180	12	
		Bait muta'a	195	13	
		Al Qufl	65	5	
		Al Dhabrah + Al Sharaf	950	78	
		Al Khaza'a	213	11	
		Al Me'zaab	292	18	
		Bait Al Mushaki	284	17	
		Bait Mudafar	187	8	
		Bait Harras	240	12	
		Al Hejrah	283	13	
		Al Nashma	277	15	
		Bait Al Na'ama + Bait Al	290	17	
		Al Ahzam	1,250	130	
		Bait Al Jayefi	270	21	
		Qala'at Al Nowairah	56	53	
		Al Mandhaha	240	20	
		Ebr Sehah	220	19	
		Bait Al Sayiat	312	34	
		Bararah	170	14	
		Bait Al Zurqa'a	185	10	
		Bait Al Suraimi	274	22	
		Al Sur	73	9	
		Bait Al Madar Al Ala& Al Asfal	350	30	
		Al Nasham	220	13	
		?	180	10	
		Kha'em	275	14	
		Qarat Kha'em	200	12	
		Al Helfah	130	6	
		Qaryat Al Athar	300	18	
		Bait Al Ghubaisi& its neighboring hamlets	255	16	

12.3 Village Profile of Sites in Al Mahweet Governorate

EXISTING WATER SUPPLY SCHEME PANEL

No.	Item	Description					
	Functioning	Functional					
	Components of Existing Water Supply Scheme	Component	Specification		Condition	Year	Fund
		Pump for Deep Well	Submersible			1988	Japan
		Generator for Deep Well		Denyo		1988	Japan
		Pump House for Deep Well	RC			1988	Japan
		Pump for Booster	Horizontal	2 Nos.		1988	Japan
		Generator for Booster	Horizontal	2 Nos.		1988	Japan
		Booster House	RC	2 Nos.		1988	Japan
		Booster Tank No.1	Steel panel	$60m^3$		1988	Japan
		Booster Tank No.2	Steel panel	$75m^3$		1988	Japan
		Distribution Tank	Steel panel	$200m^3$		1988	Japan
		Pumping Main	SGP			1988	Japan
		Distribution Main	SGP			1988	Japan
		Public Tapstand	14 by Japan, 4 by village			1988	Japan
		House Connection					
	Observations						

WATER SOURCE PANEL

No.	Item	Description		
	【Borehole Code】			
	Grid (UTM)	North 1710197	East 352837	
	Grid (Lal/Lon)	Lat. N 15°27' 53.0"	Lon. E 43°37' 41.9"	
	Present Condition (Pump Type)	Working Submersible pump		
	Elevation (m)	1986 m		
	Aquifer/Geological Description			
	Year of Construction	1990		
	Fund	Japan		
	Depth (m)	150 m		
	Casing Diameter (inch)	10 inch		
	Screen			
	Static Water Level (G.L.-m)	50.8 m		
	Dynamic Water Level (G.L.-m)	55.9 m		
	Drawdown (m)	5.1 m		
	Discharge (g/min)	165 g/min	10.4 L/sec	
	Specific Capacity	2.04 L/s/m		
	EC (mS/m)	31.2 mS/m		
	pH	6.7		
	Temperature (℃)	24.7		
	Remarks			

WATER SUPPLY PLANNING PANEL

No.	Item	Description		
	【Design Parameter】			
	No. of Villages in Total	65		
	No. of Villages to be Covered	0		
	Current Population (2006)	20,786		
	Design Population (2016)	27,584		
	Design Water Supply Rate	25 L/c/d	690 m^3/day	
	Type of Work Required	Rehabilitation		
	Required Facilities	Component		Notes
		Pump for Deep Well		Replace
		Eng./Gen. for Deep Well		Replace
		Pump House for Deep Well		
		Pump for Booster	2 Nos.	Replace
		Eng./Gen. for Booster	2 Nos.	Replace
		Pump House for Booster	2 Nos.	
		Booster Tank	2 Nos.	
		Distribution Tank		Water leakage
		Pumping Main		
		Distribution Main		Extension to 2 villages
		Public Tapstand		
		House Connections		
	Accessibility	Good, near paved road, but inside site, rugged mountain road		
	Security			
	Observation	Made request to Embassy of Japan in April 2005 for new borehole and pipelines to 7 villages. Tank for this scheme already completed through fund from Embassy of Japan (2004). When this scheme is completed, plan to separate this scheme from existing system.		

12.3 Village Profile of Sites in Al Mahweet Governorate

OPERATION AND MAINTENANCE PANEL				
No.	Item	Description		
	No. of Village Head (Sheikh)	4		
	No. of Tribe	1		
	Observation in Current Supply Scheme	Booster station and pump located in another village (?)		
		Main pipeline was destroyed by land slide		
		House connections are all metered. Most of meters are installed by users, while there are some installed by the Project.		
		After 3 years of project completion, public stands (4) are constructed and pipelines are extended by the community		
	Mode of Ownership	Legal Ownership is vested to the community in traditional manner (Document for legal ownership is not prepared).		
		Scheme was handed over to the community, but no minutes of understanding are prepared.		
	Mode of Management Entity	Management (Administrative) Board is responsible for the scheme management.		
		Management (Administrative) Board is composed of; a) Manager (1), b) Financial Manager (1), c) Treasurer (1), d) Technical Staff (3), e) Meter Reader/Revenue Collector (4).		
		Management (Administrative) Board is appointed by community.		
		The manager of the Management Board is also Sheik		
		Village meeting was held for selection/appointment of the Board members.		
		First selection/appointment of the Board was made after scheme handing-over.		
		Latest selection/appointment of the Board was made lwo (2) years ago.		
		Financial Manager (1) and Treasurers (3) were replaced so far.		
		Technical and Financial trainings are provided and arranged every year since the completion of the project by GARWSP.		
		3-4 persons / year are attended to the training provided by GARWSP.		
		All Board members are participated in the training provided by GARWSP.		
	Organizational Management	Constitution for Management Board is not prepared.		
		Legal status of Management Board is not established.		
		Mode of decision makings is largely subject to the manager of Board (i.e. Sheikh).		
	Technical Operation and Maintenance	Manuals for pump operation are prepared.		
		Operation records are kept at pump, and every meter is read.		
		Pump is operated for eight (8) hours in a day.		
		Major repair: Installation of new pipeline (20m x 6), of which costs of YR 1,500,000 are borne by the community (i.e. Scheme account).		
	Financial Management and Transparency	Water Tariff Structure:	YR 100/m3	
		For the poor households, water is free up to 2m3/day.		
		Identification of the poor is made by the Sheikh and the Board Manager.		
		All meters at house connection are read once in a month, and billing is made every month.		
		Water bills are sent to each household, and bills are collected by the Meter Reader/Revenue Collector visiting house-to-house.		
		Bank account is opened		
		Bank account is managed by three Board members' signatory (i.e. Manager, Financial Manager, and Treasure).		
		Yearly internal auditing and monitoring is undertaken by community members.		
		Summarized financial report is prepared, which is open for the community.		
		Financial reporting announce is not done.		
		Income in average:	YR 400,000 – 600,000 / month	
		Expenditure in average:	YR 473,000 (December '05)	
		Expenditure Breakdown:	Salary/Allowance	YR 193,000 (December '05)
			Fuel/Oil	YR 280,000 (December '05)
		Staff Salary/Allowance:	Manager	YR 15,000/month
			Vice Manager	YR 8,000/month
			Financial Manager	YR 8,000/month
			Treasurer	YR 8,000/month
			Operator	YR 20,000/month
			Meter Reader	YR 15,000/month
			Guards	YR 4,000/month
	Stakeholder Involvement / Responsibility Sharin			
	Community Contribution	Lands for the scheme construction are contributed by the community.		
		Pipeline extension and construction of four (4) public stands (costs: YR 1,500,000) was undertaken by the community.		
		In pipeline extension, transportation and laying of pipeline, was conducted by the community, while pipe fitting was undertaken by hiring a contractor by the community.		
	Community Contracting-Out	Yearly renewable contract arrangement is made with operators, and meter readers/revenue collectors		
	Conflict Resolution	No tribal conflicts are mentioned. Conflicts are resolved by the Sheikh		
	Pro-Gender and Pro-Poor	No female participants are observed in the scheme Management/Administrative Board.		
	Remarks	Although any community conflict cased are not mentioned, there are more than 50 villages (sub-villages) and 4 uzula are located in the scheme, managed by 4 sheikh. Further conflict resolution mechanism shall be identified.		

12.3 Village Profile of Sites in Al Mahweet Governorate

SITE IDENTIFICATION PANEL

No.	Item	Description					
	Code No.	A-04					
	Site Name	Al Khamis-Bani Ali					
	Sub-District (Uzlat)	Al Khamis					
	District	Bani Sa'ad					
	Governorate	Al Mahweet					
	Coordinates	Latitude	Longitude				
	Coordinates (Measured Location)						
	Annual precipitation (rainfall)	530 mm					
	Population (2006)	1,602					
	Population Forecast (2016)	2,126					
	No. of Village (Qariah) in Total						
	No. of Village (Qariah) to be served						
	Village (Qariah) in the Community	Name	To Be Served	Population	Household	Coordinate (Lat / Lon)	
		Al Rajma					
		Al Kasia					
		Al Modawre					
		Al Hariga			80		
		Al Zonoob					
		Wadi Mugaiser					
		Al Mangum					
		Al Taine					
		Al Mashgab					
		Al Kulabia					
		Kareed					
		Al Megzab					
		Al Shareba					
		Wadi Rizig					
		Al Raga					
		Al Khamis (market)					
		Al Karbah					
		Thahr Al Karbah					
		Al Dundunah					
		Maqqsarah					

EXISTING WATER SUPPLY SCHEME PANEL

No.	Item	Description				
	Functioning	Partially existing				
	Components of Existing Water Supply Scheme	Component	Specification	Condition	Year	Fund
		Pump for Deep Well				
		Eng./Gen. for Deep Well				
		Pump House for Deep We		Under construction		GARWSP
		Pump for Booster				
		Eng./Gen. for Booster				
		Booster House				
		Booster Tank				
		Distribution Tank		For Al Khamis, completed	2005	GARWSP
		Pumping Main	Material for Al Khamis available at branch office			
		Distribution Main	Material for Al Khamis available at branch office			
		Public Tapstand				
		House Connection				
	Observations					

WATER SOURCE PANEL

No.	Item	Description		
	【Borehole Code】			
	Grid (UTM)	North	East	
		1678985	338756	
	Grid (Lat/Lon)	Lat. N	Lon. E	
		15°10' 54.4"	43°29' 56.4"	
	Present Condition (Pump Type)	Capped		
	Elevation (m)	458 m		
	Aquifer/Geological Description			
	Year of Construction	2001		
	Fund	GARWSP		
	Depth (m)	92 m		
	Casing Diameter (inch)	10 inch		
	Screen	32m - 92m		
	Static Water Level (G.L.-m)	6.66 m		
	Dynamic Water Level (G.L.-m)	28.82 m		
	Drawdown (m)	22.16 m		
	Discharge (g/min)	70 g/min	4.4 L/sec	
	Specific Capacity	0.1993 L/s/m		
	EC (mS/m)	283.0 mS/m		
	pH	6.99		
	Temperature ('C)	33.4		
	Remarks			

12.3 Village Profile of Sites in Al Mahweet Governorate

WATER SUPPLY PLANNING PANEL

No.	Item	Description		
	【Design Parameter】			
	No. of Villages in Total	0		
	No. of Villages to be Covered	0		
	Current Population (2006)	1,602		
	Design Population (2016)	2,126		
	Design Water Supply Rate	40 L/c/d	85 m^3/day	
	Type of Work Required	Partial construction		
	Required Facilities	Component	To be Constructed by	Notes
		Pump for Deep Well	Donor	New
		Eng./Gen. for Deep Well	Donor	New
		Pump House for Deep We	GARWSP	Under construction
		Pump for Booster	Donor	New x 2
		Eng./Gen. for Booster	Donor	New x 2
		Pump House for Booster	Donor	New
		Booster Tank	Donor	New
		Distribution Tank	Donor/GARWSP	New x 1, Al Khamis completed
		Pumping Main	Donor/GARWSP	New, and for Al Khamis available at br
		Distribution Main	Donor/GARWSP	New, and for Al Khamis available at br
		Public Tapstand	Donor	New (for mosque, school and clinic only
		House Connections	Village	
	Accessibility	Access to Bani Ali is very difficult, but access to borehole is good, along paved road		
	Security			
	Observation	Work for Bani Ali only. Work for Al Khamis to be done by GARWSP branch. Branch has pipe 3" diam., 6m x 400 pcs. Also, vertical pump and 2 booster pumps available at branch (?), but need to confirm actual availability and specifications.		

OPERATION AND MAINTENANCE PANEL

No.	Item	Description
	No. of Village Head (Sheikh)	
	No. of Tribe	
	Observation in Current Supply Scheme	
	Mode of Ownership	
	Mode of Management Entity	
	Organizational Management	
	Technical Operation and Maintenance	
	Financial Management and Transparency	
	Stakeholder Involvement / Responsibility Sharing	
	Community Contribution	
	Community Contracting-Out	
	Conflict Resolution	
	Pro-Gender and Pro-Poor	
	Remarks	